



**VILNIAUS UNIVERSITETO
FIZIKOS FAKULTETO TARYBA**

**NUTARIMAS
DĖL PROFESORIAUS SAULIAUS JUODKAZIO KANDIDATŪROS Į VILNIAUS
UNIVERSITETO GARBĖS DAKTARUS TEIKIMO**

Vadovaudamasi Vilniaus universiteto Statutu, Vilniaus universiteto emeritūros, afiliacijos ir garbės vardų nuostatais ir Fizikos fakulteto nuostatais, Vilniaus universiteto Fizikos fakulteto taryba

n u t a r i a teikti Vilniaus universiteto Senatui prof. Sauliaus Juodkazio kandidatūrą Vilniaus universiteto garbės daktaro vardui.

PERSONAL DETAILS

Juodkazis, Saulius:

Researcher unique identifier(s) (ORCID [0000-0003-3542-3874](https://orcid.org/0000-0003-3542-3874), Research ID [Q-6943-2019](https://pubs.rsos.royalsocietypublishing.org/author/10.1098/rsos.190119)):

URL for web site: <https://experts.swinburne.edu.au/1213-saulius-juodkazis>

• Education and key qualifications

01/03/1998 PhD (cotutelle)

“Optical and structural properties of sol-gel films doped by quantum dots”
Physics Faculty, Semiconductor Physics Dept., Vilnius University, Lithuania
Prof. Juozas V. Vaitkus and Dr. Mindaugas Petrauskas
Lyon-I University, Department of Material Sciences
Prof. Jean G. Dumas

1986

Master
Physics Faculty, Semiconductor Physics Dept., Vilnius University, Lithuania

• Current position(s)

From 2009 Professor, Chair of Nanophononics (tenured)
Head of Nanofabrication facility (linked to the Australian National Fabrication Facility),
Optical Sciences Center, Swinburne University of Technology, Australia

2018 –2025 Professor
School of Materials and Chemical Technology, World Research Hub Program,
Tokyo, Institute of Technology, Japan

From 2016 Visiting Professor at Vilnius University, Lithuania

• Previous position(s)

2018 – 2021 IdeX (Excellence) International Chair Professor for Quantum Technology
Bordeaux Univ., France

2004 - 2009 Associate Professor (tenured)
Research Institute for Electronic Sciences (RIES), Hokkaido University, Japan

1998 - 2004 Assistant Professor
Satellite Venture Business Laboratory (SVBL) for GaN-based blue light emitters,
University of Tokushima, Japan

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

I am listed among the top 2% of researchers by citations according to ref. [J.P.A. Ioannidis (2023), "Updated science-wide author databases of standardized citation indicators, Elsevier Data Repository, V6, doi: [10.17632/btchxktzyw.6](https://doi.org/10.17632/btchxktzyw.6)].

Full list of publications: <https://scholar.google.com.au/citations?user=T2jj61kAAAAJ&hl=en>

My main research contributions related to nanoscience, nanotechnology, and light-matter interaction in confined space and time domains are following:

[1] Z.-Z. Li, H. Fan, L. Wang, X. Zhang, X.-J. Zhao, Y.-H. Yu, Y.-S. Xu, Y. Wang, X.-J. Wang, **S. Juodkazis**, Q.-D. Chen, H.-B. Sun, Super-stealth dicing of transparent solids with nanometric precision, *Nature Photonics* 18, 799–808 (2024).

Demonstration of the highest aspect ratio laser cutting/dicing of dielectrics and semiconductors using ultra-short pulses Bessel beams, improving the state of the art by a factor of 10^3 . As a corresponding author, I contributed to the hypothesis and was the first to use Bessel beams in laser structuring [A. Marcinkevičius et al. 2001 *Jpn. J. Appl. Phys.* 40 L1197 (2001)].

[2] A. Vailionis, E. G. Gamaly, V. Mizeikis, W. Yang, A. Rode, **S. Juodkazis**, Evidence of super-dense Aluminum synthesized by ultra-fast micro-explosion, *Nature Communications*, 2, 445 (2011).

Discovery of a dense bcc-Al phase (typically fcc) created by nano-microexplosion, which was theoretically predicted about 40 years earlier. I was the Chief Investigator of the beamtime proposal at the Advanced Photon Source (USA) synchrotron, where the experimental results were obtained.

[3] E. P. Ivanova, J. Hasan, H. K. Webb, G. Gervinskas, **S. Juodkazis** et al., Bactericidal activity of nanostructured black silicon, *Nature Communications*, 4, 2838 (2013).

The first artificially manufactured biocidal (bacteria and virus) nanotextured surface: serves as a mechanical antibiotic. (Recognized with the EUREKA 2017 prize and patented). Patent of bactericidal black-Si (2014) was licensed to Global Orthopedics Pty. Ltd. and initiated the Innovative Manufacturing CRC 2017 project (\$22M AUD). On 27 August 2014, our work on the bactericidal behaviour of black Si was listed among the 7 world-class outputs from Victoria ("World class science that's made in Melbourne", *The Sydney Morning Herald*). This work has strong continuation and shows my scientific intuition in different areas on nanotechnology.

[4] **S. Juodkazis**, K. Nishimura, H. Misawa, T. Ebisui, R. Waki et al. 2006, Control over the State of Crystallinity: Sapphire, *Advanced Materials*, 18(11), 1361 - 1364 (2006).

Amorphous alumina is produced within a sapphire crystal through a nano-micro-explosion induced by an ultrashort laser pulse. This represents the first demonstration of the process. Atomic scale interface crystal-glass is formed.

[5] **S. Juodkazis**, K. Nishimura, S. Tanaka, H. Misawa, E.G. Gamaly, et al., Laser-induced microexplosion confined in the bulk of a sapphire crystal: Evidence of multimegabar pressures, *Physical Review Letters*, 96(16), 166101 (2006).

First demonstration of dynamic pressures reaching up to 1 TPa - several times larger than those found at the Earth's core - using a tightly focused ultra-short laser pulse.

[6] M. Malinauskas, A. Zukauskas, S. Hasegawa, Y. Hayasaki, V. Mizeikis, R. Buividas, **S. Juodkazis**, Ultrafast laser processing of materials: from science to industry, *Light Science & Applications*, 5, e16133 (2016).

This review establishes the relation between resolution scaling and 3D throughput in microfabrication, and it outlines the trends in manufacturing with ultra-short pulsed lasers.

[7] Z.-Z. Li, L. Wang, H. Fan, Y.-H. Yu, H.-B. Sun, 2020, 'O-FIB: far-field-induced near-field breakdown for direct nanowriting in an atmospheric environment', *Light: Science and Applications*, 9(1) (2020).

Tens-of-nm resolution in direct laser writing achieved through nanoscale energy deposition, based on boundary conditions at the dielectric-air interface for the normal E-field.

[8] T. Katkus, S.-H. Ng, H. Mu, N.H.A. Le, D. Stonyte, Z. Khajehsaeidimahabadi, G. Seniutinas, J. Baltrukonis, O. Ulcinas, M. Mikutis, V. Sabonis, Y. Nishijima, M. Rienacker, U. Roemer, J. Kruegener, R. Peibst, S. John, **S. Juodkazis**, Bessel-beam direct-write of the etch-mask in a nano-film of alumina for

high-efficiency Si solar cells, *Advanced Engineering Materials*, (accepted 30 July 2024; <https://arxiv.org/abs/2403.14237>)

Large area 2 x 2 cm² laser patterning of Si solar cells for light trapping has the potential to surpass the efficiency of random patterns, achieving performance beyond the ray optics (Lambertian) limit. This approach represents a large application area that can change (increase) the efficiency of Si solar cells up to ~30% in light-to-electrical conversion. This research is closely connected to this proposal.

[9] A. Marcinkevicius, **S. Juodkazis**, M. Watanabe, M. Miwa, S. Matsuo, et al., Femtosecond laser-assisted three-dimensional microfabrication in silica, *Optics Letters*, 26(5), 277-279 (2001).

Laser-damaged silica is transformed into a wet-etchable state and is now widely used for 3D micro – microfabrication. This was the first demonstration, patented and licensed to Tokyo Instruments Ltd. and has since become a popular commercial 3D printing technology. I discovered this phenomenon during PhD supervision of M. Watanabe where we used wet etching to reveal laser inscribed 3D optical memory bits.

[10] **S. Juodkazis**, N. Mukai, R. Wakaki, A. Yamaguchi & H. Misawa, Reversible Phase Transitions in Polymer gels Induced by Radiation forces, **Nature**, 408(68099), 178-181 (2000).

The discovery of volume phase transitions induced by photon pressure, driven by nanoscale interactions in gels, has led to applications in artificial muscles. This was the focus of my postdoc project on laser tweezers. The study of light-matter interactions within volumes of sub-micrometer cross sections.

Peer recognition

- Awards

2017 Eureka Prize for Scientific Research (with team "Bacteria busters"), University New South Wales with the Australian Museum for discovery of black-Si as “mechanical antibiotic”, which can be produced in large quantities.

2013 Fellow of OSA (now Optica), The optical society of America (OSA)

2012 Fellow of SPIE, The international society for optics and photonics (SPIE)

2009 PRESTO (sakigake) award for the opening of a new field "Innovative use of light" (top 2% researchers in Japan), The Science and Technology Agency, Japan

2008 Award for the ten years scientific achievements in the fields of physical, technological, and bio-sciences, The Science and Education Ministry of Lithuania

- Service to research community

Journals

- Associate editor of: *Optics Express* (2010-2016; two terms), *Optical Engineering* (SPIE, 2015-2021), *Journal Laser Micro/Nano-Engineering* (from 2010), *Applied Physics A* (from 2024), *Applied Physics B* (from 2018).

- 2014 OSA reviewer award. I am reviewer for high impact journals: *Nature Photonics*, *Nature*, *Nature Communications*, *Light*, *Phys. Rev. Lett.*, *Adv. Mat.*, *NanoLett.*, etc.

Conferences

- Co-Chair of SPIE Smart Materials and Devices, Dec. 2017, Melbourne, Australia.

- Chair of SPIE Smart Nano-/Micro Materials and Devices, Dec. 5-7, 2011, Melbourne, Australia.

- Chair of Program sub-Committee, (OSA) Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, 5 - 8 Sept. 2016, Sydney, Australia.

- Organiser of Special Session on ripples and self-organisation in Laser Precision Microfabrication (LPM), 23 - 27 May 2016, Xi'an, China. Programm Committee member.

- Co-Chair of Conference on Laser Ablation (COLA) 2015, Cairns, Australia.

- A programme committee member of Photonics West from 2008 (Advanced Fabrication Technologies for

Micro/Nano Optics & Photonics); ICPEPA2008, 2012, 2016; CLEO 2012,14,15; CLEO-PR – 2015,2024; LPM from 2010.

Review panels/ advisory boards

- (2018-2024 two terms) Program Advisor Committee (PAC) Member for beamtime applications at THz and IR microspectroscopy beamlines, the Australian Synchrotron, Melbourne.
- (2018-2024) AINSE – Australian Institute of Nuclear Science and Engineering - counsellor at Swinburne University.
- (2010-12) Jury member of the professorial tenure track committee at Shizuoka University, Japan.
- (2013-18) Advisor of the first Australian OSA and SPIE student chapter at Swinburne.
- Grant assessor for the National Science Foundation (USA), agencies in Switzerland, Hong Kong, Japan, Georgia, Austria, France, Lithuania, Netherlands, Poland. I was a reviewer of the final (second) stage ECR Advanced and Consolidator grants in EU.

Plenary/Keynote/Invited/Short courses talks

- I have accepted 1-2 plenary/keynote and 3-4 invited talks per year in the last 10 years. I plan my research trips as a visiting professor according to those invitations. This optimizes time and resources, which contributes to an overall energy efficiency of international travel. When acceptable, I give my talks online (e.g., 11th webinar ROWS 2023, India).
- I developed and presented tutorials and short courses. Some latest were at:
 - CIOP, Aug 6-9, 2019, Xi'an, China on 3D laser fabrication.
 - SC1226: 3D Nano-/Micro Printing. Short course at SPIE SPIE Micro + Nano Materials, Devices, and Applications, Dec. 8-12, 2019 Melbourne, Australia. I was Chair of the conference, and this was the second time I delivered this short course. I started the SPIE short course tradition in Australia.
 - Lecturer at the summer school and workshop "VI 'Photonics Meets Biology' 27 July - 1 August 2022, Spetses Island, Greece.
 - Lecture at the Workshop on 3D printing of Photonics Materials, 11 Dec. 2022, University of Adelaide.
 - "Light-matter interactions" two-week course for PhD and MSc students at Vilnius University, Lithuania (May 2023).
 - Lecture at the Workshop on Ultra-High Power Lasers and their Applications, 16 Oct. 2023, University of Adelaide.
 - Lecturer at Summer School on Ultra-short Pulse Lasers Applications in Material Processing, 1-6 July 2024, Vilnius.

Evidence in leadership, mentoring, research training, and teaching

From 2010 to 2014, I spent 85%FTE on research and PhD project supervision, 10% on undergraduate and physics Honors teaching (modern physics, nanotechnology, light-matter interaction (Hons.)), and 5% on administration and management as the Head of the Nanotechnology facility and deputy director of the Centre for Micro-Photonics (now the Optical Sciences Centre – OSC at Swinburne Uni. Technol.). From 2015, I was a research-active academic with a standard workload of 60%-teaching and 40%-research. My teaching is reduced by 10% via secondment as a Director of Nanotechnology facility and deputy director of OSC from 2015 to 2019.

Research Supervision, Mentoring, and Advisor roles:

- Three of my PhD students won Swinburne Vice-Chancellor scholarships.
- PhD student D. Linklater is a recipient of the Veski (2020), Humboldt, and McKenzie Fellowship awards in 2021
- PhD student G. Seniutinas has obtained a postdoc position in the Paul Scherrer Institute, Zurich (part of the prestigious Swiss École Polytechnique Fédérale)
- PhD student Y. Nishijima and postdoc V. Mizeikis are now tenured professors in Japan.
- my postdoc 2020-21 V. Kumar received prestigious EU Chair Assoc. Prof. with 2.5M euros start-up at Tartu Uni.
- Since 2021 I have been a member of the Australian Lithuanian Business Council; advisor to the Lithuanian Embassy in Australia. I informed the ultra-fast laser technology, joint research, and PhD opportunities.
- From 2016 Advisor of SwissLitho Ltd. on laser processing of polymers and program committee member of the annual thermal probe conference organised by SwissLitho advisory board and leading company researchers.

- From 2016 Member of the Science Advisory Board of the Center Physical Sciences and Technology, Vilnius, Lithuania (800 employees)
- 2012-19,22-23 Nanotechnology Fellow/Ambassador at the Melbourne Centre for nanofabrication (MCN), the Victorian node of the Australian National Fabrication Facility (ANFF). In this role, I help Swinburne researchers to carry out fabrication projects at the best-suited ANFF facility required for the task. Researchers from other Universities and industry find out about our capabilities via ANFF. The program has developed and transferred a Si solar cell patterning by photonic crystal for light trapping technology and a process for the bactericidal Ti implant nanotexturing.
- (2011-2013) advisor and associate investigator in Swinburne's Victoria-SunTech \$4M AUD solar cell project focused on improving industrial solar cells using plasmonic nanoparticle coating. I was also an adviser for Si solar panels production pilot line, Precizika Ltd., Vilnius, Lithuania, for Si₃N₄ mask ablation and contact opening process.

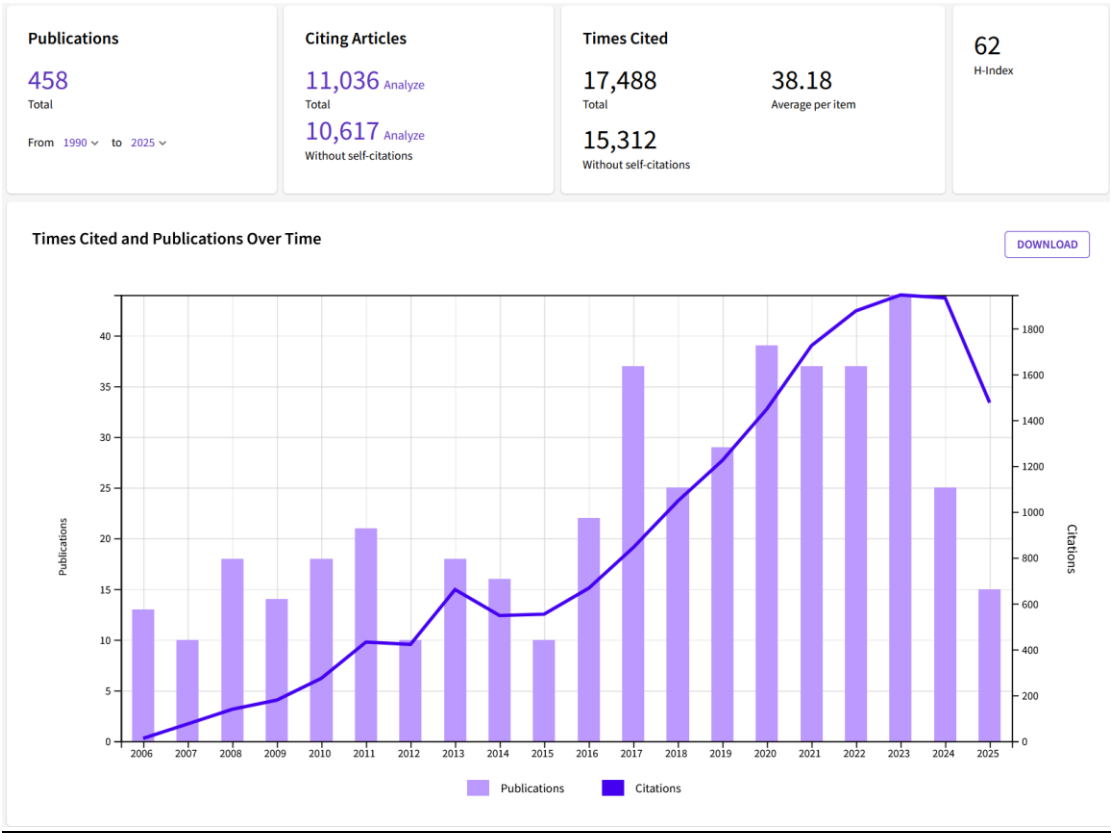
VILNIAUS UNIVERSITETAS

Saulius Juodkazis

Visų mokslinių publikacijų
SĄRAŠAS

STRAIPSNIAI

recenzuojamuose mokslo leidiniuose, referuojamuose ir
turinčiuose citavimo indeksą duomenų bazėje „Thomson Reuters Web of Knowledge“



1 of 458

Title: Interferenceless coded aperture correlation holography for five-dimensional imaging of 3D space, spectrum and polarization
Author(s): Joshi, N (Joshi, Narmada); Tiwari, V (Tiwari, Vipin); Kahro, T (Kahro, Tauno); Xavier, API (Xavier, Agnes Pristy Ignatius); Tahara, T (Tahara, Tatsuki); Kasikov, A (Kasikov, Aarne); Kukli, K (Kukli, Kaupo); Juodkazis, S (Juodkazis, Saulius); Tamm, A (Tamm, Aile); Rosen, J (Rosen, Joseph); Anand, V (Anand, Vijayakumar)
Source: JOURNAL OF PHYSICS-PHOTONICS **Volume:** 7 **Issue:** 2 **Article Number:** 025004 **DOI:** 10.1088/2515-7647/ada997 **Published Date:** 2025 NOV 30

2 of 458

Title: Unveiling the anisotropy and mechanism of magnetic alignment of graphene in polymer composites for efficient absorption of THz radiations (0.3-3.0 THz)

Author(s): Govindaraj, P (Govindaraj, Premika); Varghese, S (Varghese, Sreeba); Sokolova, A (Sokolova, Anna); Han, ML (Han, Molong); Juodkazis, S (Juodkazis, Saulius); Appadoo, D (Appadoo, Dominique); Fuss, FK (Fuss, Franz Konstantin); Salim, N (Salim, Nisa); Hameed, N (Hameed, Nishar)

Source: COMPOSITES PART B-ENGINEERING **Volume:** 306 **Article Number:** 112739 **DOI:** 10.1016/j.compositesb.2025.112739 **Published Date:** 2025 NOV 1

3 of 458

Title: 3D free-form optical lens - miniaturised fibre couplers for astrophotonics

Author(s): Mu, HR (Mu, Haoran); Smith, D (Smith, Daniel); Katkus, T (Katkus, Tomas); Le, NHA (Le, Nguyen Hoai An); Stonyte, D (Stonyte, Dominyka); Gailevicius, D (Gailevicius, Darius); Kapsaskis, D (Kapsaskis, Dan); Del Frate, A (Del Frate, Alexander); Bedi, TS (Bedi, Talwinder Singh); Narbutis, D (Narbutis, Donatas); Anand, V (Anand, Vijayakumar); Astrauskyte, D (Astrauskyte, Darija); Grineviciute, L (Grineviciute, Lina); Ng, SH (Ng, Soon Hock); Glazebrook, K (Glazebrook, Karl); Lawrence, J (Lawrence, Jon); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS AND LASER TECHNOLOGY **Volume:** 190 **Article Number:** 112960 **DOI:** 10.1016/j.optlastec.2025.112960 **Published Date:** 2025 NOV

4 of 458

Title: Direct measurement of two-photon absorption and refraction properties of SZ2080™-based resists at 515 nm: insights into 3D printing

Author(s): Stavrou, M (Stavrou, Michalis); Ladika, D (Ladika, Dimitra); Skliutas, E (Skliutas, Edvinas); Jukna, V (Jukna, Vytautas); Gray, D (Gray, David); Farsari, M (Farsari, Maria); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: NANOPHOTONICS **Volume:** 14 **Issue:** 18 **Pages:** 2981-2992 **DOI:** 10.1515/nanoph-2025-0066 **Early Access Date:** AUG 2025 **Published Date:** 2025 SEP 9

5 of 458

Title: Spatio-spectral correlations in interferenceless coded aperture correlation holography with vortex speckles

Author(s): Vilardell, EP (Vilardell, Eulalia Puig); Gopinath, S (Gopinath, Shivasubramanian); Tiwari, V (Tiwari, Vipin); Kahro, T (Kahro, Tauno); Kasikov, A (Kasikov, Aarne); Koiv, M (Koiv, Markus); Reddy, ANK (Reddy, Andra Naresh Kumar); Rosen, J (Rosen, Joseph); Kukli, K (Kukli, Kaupo); Gailevicius, D (Gailevicius, Darius); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: APPLIED PHYSICS B-LASERS AND OPTICS **Volume:** 131 **Issue:** 7 **Article Number:** 142 **DOI:** 10.1007/s00340-025-08507-x **Published Date:** 2025 JUL

6 of 458

Title: A Noble Metal High-Entropy Alloy for Mid-Infrared Metasurfaces

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Sudo, T (Sudo, Teruaki); Matsuo, Y (Matsuo, Yasutaka); Juodkazis, S (Juodkazis, Saulius)

Source: ENGINEERING **Volume:** 49 **Pages:** 81-89 **DOI:** 10.1016/j.eng.2025.01.017 **Early Access Date:** JUN 2025 **Published Date:** 2025 JUN

7 of 458

Title: Femtosecond Laser Plasmonic Nanolithography for Color Printing in Silicon

Author(s): Wu, B (Wu, Bo); Zhu, H (Zhu, Han); Chu, LR (Chu, Lingrui); Sun, WQ (Sun, Wenqing); Ye, QC (Ye, Qingchuan); Sun, XL (Sun, Xiaoli); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: SMALL STRUCTURES **DOI:** 10.1002/ssstr.202500256 **Early Access Date:** JUN 2025 **Published Date:** 2025 JUN 25

8 of 458

Title: Recent Advances in Spatially Incoherent Coded Aperture Imaging Technologies

Author(s): Tiwari, V (Tiwari, Vipin); Gopinath, S (Gopinath, Shivasubramanian); Kahro, T (Kahro, Tauno); Arockiaraj, FG (Arockiaraj, Francis Gracy); Xavier, API (Xavier, Agnes Pristy Ignatius); Joshi, N (Joshi, Narmada); Kukli, K (Kukli, Kaupo); Tamm, A (Tamm, Aile); Juodkazis, S (Juodkazis, Saulius); Rosen, J (Rosen, Joseph); Anand, V (Anand, Vijayakumar)

Source: TECHNOLOGIES **Volume:** 13 **Issue:** 5 **Article Number:** 210 **DOI:** 10.3390/technologies13050210 **Published Date:** 2025 MAY 21

9 of 458

Title: Infrared Absorption of Laser Patterned Sapphire Al_2O_3 for Radiative Cooling

Author(s): Zheng, N (Zheng, Nan); Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Huang, HH (Huang, Hsin-Hui); Stonyte, D (Stonyte, Dominyka); Appadoo, D (Appadoo, Dominique); Vongsvivut, J (Vongsvivut, Jitraporn); Katkus, T (Katkus, Tomas); Le, NHA (Le, Nguyen Hoai An); Mu, HR (Mu, Haoran); Nishijima, Y (Nishijima, Yoshiaki); Grineviciute, L (Grineviciute, Lina); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 16 **Issue:** 4 **Article Number:** 476 **DOI:** 10.3390/mi16040476 **Published Date:** 2025 APR 16

Accession Number: WOS:001476488400001

10 of 458

Title: Exploring Broad-Spectrum Antimicrobial Nanotopographies: Implications for Bactericidal, Antifungal, and Virucidal Surface Design

Author(s): Baulin, VA (Baulin, Vladimir A.); Linklater, DP (Linklater, Denver P.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: ACS NANO **Volume:** 19 **Issue:** 13 **Pages:** 12606-12625 **DOI:** 10.1021/acsnano.4c15671 **Early Access Date:** MAR 2025 **Published Date:** 2025 MAR 25

Accession Number: WOS:001451723100001

11 of 458

Title: Analysis of pistachio shell-derived activated porous carbon materials for hydrogen adsorption

Author(s): Elyasi, S (Elyasi, Setareh); Hameed, N (Hameed, Nishar); Mahon, PJ (Mahon, Peter J.); Juodkazis, S (Juodkazis, Saulius); Keshavarz, A (Keshavarz, Alireza); Iglauer, S (Iglauer, Stefan); Matamba, T (Matamba, Tawanda); Vongsvivut, J (Vongsvivut, J.); Salim, N (Salim, Nisa, V)

Source: INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 119 **Pages:** 260-270 **DOI:** 10.1016/j.ijhydene.2025.03.028 **Early Access Date:** MAR 2025 **Published Date:** 2025 APR 15

12 of 458

Title: Laser Writing and Spin Control of Near-Infrared Emitters in Silicon Carbide

Author(s): Hao, ZH (Hao, Zhi-He); He, ZX (He, Zhen-Xuan); Maksimovic, J (Maksimovic, Jovan); Katkus, T (Katkus, Tomas); Xu, JS (Xu, Jin-Shi); Juodkazis, S (Juodkazis, Saulius); Li, CF (Li, Chuan-Feng); Guo, GC (Guo, Guang-Can); Castelletto, S (Castelletto, Stefania)

Source: ACS PHOTONICS **Volume:** 12 **Issue:** 3 **Pages:** 1552-1560 **DOI:** 10.1021/acsp Photonics.4c02270 **Early Access Date:** FEB 2025 **Published Date:** 2025 FEB 26

13 of 458

Title: Strong Polarization-Tuned Optical Nonlinearity Via Femtosecond-Laser Plasmonic Nanolithography in Lithium Niobate

Author(s): Zhu, H (Zhu, Han); Sun, WQ (Sun, Wenqing); Chu, LR (Chu, Lingrui); Zhou, SQ (Zhou, Shengqiang); Wu, TC (Wu, Tianci); Ye, QC (Ye, Qingchuan); Sun, XL (Sun, Xiaoli); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: SMALL **Volume:** 21 **Issue:** 25 **DOI:** 10.1002/smll.202411607 **Early Access Date:** FEB 2025 **Published Date:** 2025 JUN

14 of 458

Title: Antibiotic-Free Phototherapy via an Indocyanine Green-Decorated Gold Nanoparticle/Manganese Dioxide Nanocomposite

Author(s): Yin, SY (Yin, Suyao); Linklater, DP (Linklater, Denver P.); Li, ZY (Li, Zheyu); He, S (He, Shuai); Li, ZC (Li, Zechang); Xiang, S (Xiang, Shuai); Zong, ZL (Zong, Zenglian); Li, DM (Li, Dongmei); Wen, LP (Wen, Liping); Shi, X (Shi, Xu); Juodkazis, S (Juodkazis, Saulius); Sun, K (Sun, Kai); Ivanova, EP (Ivanova, Elena P.); Jiang, L (Jiang, Lei)

Source: ACS APPLIED NANO MATERIALS **Volume:** 8 **Issue:** 7 **Pages:** 3545-3557 **DOI:** 10.1021/acsanm.4c07031 **Early Access Date:** FEB 2025 **Published Date:** 2025 FEB 6

15 of 458

Title: Femtosecond Laser Textured Surfaces for Radiative Cooling: Black Metals

Author(s): Zheng, N (Zheng, Nan); Buividas, R (Buividas, Ricardas); Huang, HH (Huang, Hsin-Hui); Stonyte, D (Stonyte, Dominyka); Palanisamy, S (Palanisamy, Suresh); Zhu, DM (Zhu, De Ming); Katkus, T (Katkus, Tomas); Kretkowski, M (Kretkowski, Maciej); Nishijima, Y (Nishijima, Yoshiaki); Grineviciute, L (Grineviciute, Lina); Stoddart, PR (Stoddart, Paul R.); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SCIENCES-BASEL **Volume:** 15 **Issue:** 4 **Article Number:** 2076 **DOI:** 10.3390/app15042076 **Published Date:** 2025 FEB

16 of 458

Title: Coded aperture imaging using non-linear Lucy-Richardson algorithm

Author(s): Xavier, API (Xavier, Agnes Pristy Ignatius); Kahro, T (Kahro, Tauno); Gopinath, S (Gopinath, Shivasubramanian); Tiwari, V (Tiwari, Vipin); Smith, D (Smith, Daniel); Kasikov, A (Kasikov, Aarne); Piirsoo, HM (Piirsoo, Helle-Mai); Ng, SH (Ng, Soon Hock); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Vongsvivut, J (Vongsvivut, Jitraporn); Tamm, A (Tamm, Aile); Kukli, K (Kukli, Kaupo); Juodkazis, S (Juodkazis, Saulius); Rosen, J (Rosen, Joseph); Anand, V (Anand, Vijayakumar)

Source: OPTICS AND LASER TECHNOLOGY **Volume:** 183 **Article Number:** 112300 **DOI:** 10.1016/j.optlastec.2024.112300 **Early Access Date:** DEC 2024 **Published Date:** 2025 MAY

17 of 458

Title: Adaptations of Escherichia coli K 12 to Synchrotron Sourced THz Radiation

Author(s): Ivanova, EP (Ivanova, Elena P.); Nguyen, THP (Nguyen, The Hong Phong); Linklater, DP (Linklater, Denver P.); Le, PH (Le, Phuc H.); Vilagosh, Z (Vilagosh, Zoltan); Perera, PGT (Perera, Palalle G. Tharushi); Appadoo, DRT (Appadoo, Dominique R. T.); Vongsvivut, J (Vongsvivut, Jitraporn); Sharma, T (Sharma, Tanavi); Leeming, MG (Leeming, Michael G.); Williamson, NA (Williamson, Nicholas A.); Hanssen, E (Hanssen, Eric); Dekiwadia, C (Dekiwadia, Chaitali); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Croft, RJ (Croft, Rodney J.)

Source: ACS OMEGA **Volume:** 9 **Issue:** 50 **Pages:** 49878-49886 **DOI:** 10.1021/acsomega.4c08710 **Early Access Date:** DEC 2024 **Published Date:** 2024 DEC 5

18 of 458

Title: Self-assembly of MoTe₂ nanostructures and nanocomposites over centimeter-large areas via femtosecond laser

Author(s): Chu, LR (Chu, Lingrui); Zhu, H (Zhu, Han); Li, ZQ (Li, Ziqi); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: APPLIED PHYSICS LETTERS **Volume:** 125 **Issue:** 23 **Article Number:** 233101 **DOI:** 10.1063/5.0240325 **Published Date:** 2024 DEC 2

19 of 458

Title: Four-level diffractive photon sieves by deep-UV femtosecond laser ablation

Author(s): Stonyte, D (Stonyte, Dominyka); Jukna, V (Jukna, Vytautas); Lukosiunas, I (Lukosiunas, Ignas); Zakarauskas, P (Zakarauskas, Paulius); Huang, HH (Huang, Hsin-hui); Katkus, T (Katkus, Tomas); Zheng, N (Zheng, Nan); Le, NHA (Le, Nguyen hoai an); Juodkazis, S (Juodkazis, Saulius); Gailevicius, D (Gailevicius, Darius); Paipulas, D (Paipulas, Domas)

Source: OPTICS EXPRESS **Volume:** 32 **Issue:** 24 **Pages:** 43102-43117 **DOI:** 10.1364/OE.541650 **Published Date:** 2024 NOV 18

20 of 458

Title: Roadmap on computational methods in optical imaging and holography [invited]

Author(s): Rosen, J (Rosen, Joseph); Alford, S (Alford, Simon); Allan, B (Allan, Blake); Anand, V (Anand, Vijayakumar); Arnon, S (Arnon, Shlomi); Arockiaraj, FG (Arockiaraj, Francis Gracy); Art, J (Art, Jonathan); Bai, BJ (Bai, Bijie); Balasubramaniam, GM (Balasubramaniam, Ganesh M.); Birnbaum, T (Birnbaum,

Tobias); Bisht, NS (Bisht, Nandan S.); Blinder, D (Blinder, David); Cao, LC (Cao, Liangcai); Chen, Q (Chen, Qian); Chen, ZY (Chen, Ziyang); Dubey, V (Dubey, Vishesh); Egiazarian, K (Egiazarian, Karen); Ercan, M (Ercan, Mert); Forbes, A (Forbes, Andrew); Gopakumar, G (Gopakumar, G.); Gao, YH (Gao, Yunhui); Gigan, S (Gigan, Sylvain); Goclowski, P (Goclowski, Pawel); Gopinath, S (Gopinath, Shivasubramanian); Greenbaum, A (Greenbaum, Alon); Horisaki, R (Horisaki, Ryoichi); Ierodiconou, D (Ierodiconou, Daniel); Juodkazis, S (Juodkazis, Saulius); Karmakar, T (Karmakar, Tanushree); Katkovnik, V (Katkovnik, Vladimir); Khonina, SN (Khonina, Svetlana N.); Kner, P (Kner, Peter); Kravets, V (Kravets, Vladislav); Kumar, R (Kumar, Ravi); Lai, YM (Lai, Yingming); Li, C (Li, Chen); Li, JJ (Li, Jiaji); Li, SH (Li, Shaoheng); Li, YZ (Li, Yuzhu); Liang, JY (Liang, Jinyang); Manavalan, G (Manavalan, Gokul); Mandal, AC (Mandal, Aditya Chandra); Manisha, M (Manisha, Manisha); Mann, C (Mann, Christopher); Marzejon, MJ (Marzejon, Marcin J.); Moodley, C (Moodley, Chane); Morikawa, J (Morikawa, Junko); Muniraj, I (Muniraj, Inbarasan); Narbutis, D (Narbutis, Donatas); Ng, SH (Ng, Soon Hock); Nothlawala, F (Nothlawala, Fazilah); Oh, J (Oh, Jeonghun); Ozcan, A (Ozcan, Aydogan); Park, Y (Park, Yongkeun); Porfirev, AP (Porfirev, Alexey P.); Potcoava, M (Potcoava, Mariana); Prabhakar, S (Prabhakar, Shashi); Pu, JX (Pu, Jixiong); Rai, MR (Rai, Mani Ratnam); Rogalski, M (Rogalski, Mikolaj); Ryu, M (Ryu, Meguya); Choudhary, S (Choudhary, Sakshi); Salla, GR (Salla, Gangi Reddy); Schelkens, P (Schelkens, Peter); Sener, SF (Sener, Sarp Feykun); Shevkunov, I (Shevkunov, Igor); Shimobaba, T (Shimobaba, Tomoyoshi); Singh, RK (Singh, Rakesh K.); Singh, RP (Singh, Ravindra P.); Stern, A (Stern, Adrian); Sun, JS (Sun, Jiasong); Zhou, S (Zhou, Shun); Zuo, C (Zuo, Chao); Zurawski, Z (Zurawski, Zack); Tahara, T (Tahara, Tatsuki); Tiwari, V (Tiwari, Vipin); Trusiak, M (Trusiak, Maciej); Vinu, RV (Vinu, R. V.); Volotovskiy, SG (Volotovskiy, Sergey G.); Yilmaz, H (Yilmaz, Hasan); De Aguiar, HB (De Aguiar, Hilton Barbosa); Ahluwalia, BS (Ahluwalia, Balpreet S.); Ahmad, A (Ahmad, Azeem)

Source: APPLIED PHYSICS B-LASERS AND OPTICS **Volume:** 130 **Issue:** 9 **Article Number:** 166 **DOI:** 10.1007/s00340-024-08280-3 **Published Date:** 2024 SEP

21 of 458

Title: Bessel-Beam Direct Write of the Etch Mask in a Nano-Film of Alumina for High-Efficiency Si Solar Cells

Author(s): Katkus, T (Katkus, Tomas); Ng, SH (Ng, Soon Hock); Mu, HR (Mu, Haoran); Le, NHA (Le, Nguyen Hoai An); Stonyte, D (Stonyte, Dominyka); Khajehsaeidimahabadi, Z (Khajehsaeidimahabadi, Zahra); Seniutinas, G (Seniutinas, Gediminas); Baltrukonis, J (Baltrukonis, Justas); Ulcinas, O (Ulcinas, Orestas); Mikutis, M (Mikutis, Mindaugas); Sabonis, V (Sabonis, Vytautas); Nishijima, Y (Nishijima, Yoshiaki); Rienäcker, M (Rienaecker, Michael); Römer, U (Roemer, Udo); Krügener, J (Kruegener, Jan); Peibst, R (Peibst, Robby); John, S (John, Sajeev); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED ENGINEERING MATERIALS **Volume:** 26 **Issue:** 21 **DOI:** 10.1002/adem.202400711 **Early Access Date:** AUG 2024 **Published Date:** 2024 NOV

22 of 458

Title: THz Radiation from Subwavelength Volumes on Water Surfaces and in Air: Effects of Mass Density Gradients and External Magnetic Fields

Author(s): Huang, HH (Huang, Hsin-Hui); Nagashima, T (Nagashima, Takeshi); Kumagai, K (Kumagai, Kota); Hayasaki, Y (Hayasaki, Yoshio); Mizeikis, V

(Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Tikhonchuk, VT (Tikhonchuk, Vladimir T.); Hatanaka, K (Hatanaka, Koji)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 128 **Issue:** 35 **Pages:** 14776-14783 **DOI:** 10.1021/acs.jpcc.4c01268 **Early Access Date:** AUG 2024 **Published Date:** 2024 AUG 21

23 of 458

Title: Optical Fiber Probe with Integrated Micro-Optical Filter for Raman and Surface-Enhanced Raman Scattering Sensing

Author(s): Al Mamun, MA (Al Mamun, Md Abdullah); Katkus, T (Katkus, Tomas); Mahadevan-Jansen, A (Mahadevan-Jansen, Anita); Juodkazis, S (Juodkazis, Saulius); Stoddart, PR (Stoddart, Paul R.)

Source: NANOMATERIALS **Volume:** 14 **Issue:** 16 **Article Number:** 1345 **DOI:** 10.3390/nano14161345 **Published Date:** 2024 AUG

24 of 458

Title: Ultrafast Laser Manipulation of In-Lattice Plasmonic Nanoparticles

Author(s): Zhu, H (Zhu, Han); Chu, LR (Chu, Lingrui); Lv, HY (Lv, Hengyue); Ye, QC (Ye, Qingchuan); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: ADVANCED SCIENCE **Volume:** 11 **Issue:** 38 **DOI:** 10.1002/advs.202402840 **Early Access Date:** JUL 2024 **Published Date:** 2024 OCT

25 of 458

Title: Interferometric microscale measurement of refractive index at VIS and IR wavelengths

Author(s): Ryu, M (Ryu, Meguya); Varapnickas, S (Varapnickas, Simonas); Gailevicius, D (Gailevicius, Darius); Paipulas, D (Paipulas, Domas); Vilardell, EP (Vilardell, Eulalia Puig); Khajehsaeidimahabadi, Z (Khajehsaeidimahabadi, Zahra); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko); Malinauskas, M (Malinauskas, Mangirdas)

Source: SCIPOST PHYSICS CORE **Volume:** 7 **Issue:** 3 **Article Number:** 059 **DOI:** 10.21468/SciPostPhysCore.7.3.059 **Published Date:** 2024 JUL-SEP

26 of 458

Title: Laser Machining at High $\sim$ PW/cm² Intensity and High Throughput

Author(s): Zheng, N (Zheng, Nan); Buividas, R (Buividas, Ricardas); Huang, HH (Huang, Hsin-Hui); Stonyte, D (Stonyte, Dominyka); Palanisamy, S (Palanisamy, Suresh); Katkus, T (Katkus, Tomas); Kretkowski, M (Kretkowski, Maciej); Stoddart, PR (Stoddart, Paul R.); Juodkazis, S (Juodkazis, Saulius)

Source: PHOTONICS **Volume:** 11 **Issue:** 7 **Article Number:** 598 **DOI:** 10.3390/photonics11070598 **Published Date:** 2024 JUL

27 of 458

Title: Polarimeters for the Detection of Anisotropy from Reflectance

Author(s): Kamegaki, S (Kamegaki, Shuji); Khajehsaeidimahabadi, Z (Khajehsaeidimahabadi, Zahra); Ryu, M (Ryu, Meguya); Le, NHA (Le, Nguyen Hoai An); Ng, SH (Ng, Soon Hock); Buividas, R (Buividas, Ricardas); Seniutinas, G

(Seniutinas, Gediminas); Anand, V (Anand, Vijayakumar); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: MICROMACHINES **Volume:** 15 **Issue:** 6 **Article Number:** 794 **DOI:** 10.3390/mi15060794 **Published Date:** 2024 JUN

28 of 458

Title: Super-stealth dicing of transparent solids with nanometric precision

Author(s): Li, ZZ (Li, Zhen-Ze); Fan, H (Fan, Hua); Wang, L (Wang, Lei); Zhang, X (Zhang, Xu); Zhao, XJ (Zhao, Xin-Jing); Yu, YH (Yu, Yan-Hao); Xu, YS (Xu, Yi-Shi); Wang, Y (Wang, Yi); Wang, XJ (Wang, Xiao-Jie); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai); Sun, HB (Sun, Hong-Bo)

Source: NATURE PHOTONICS **Volume:** 18 **Issue:** 8 **DOI:** 10.1038/s41566-024-01437-8 **Early Access Date:** MAY 2024 **Published Date:** 2024 AUG

29 of 458

Title: Observation of high-pressure polymorphs in bulk silicon formed at relativistic laser intensities

Author(s): Rapp, L (Rapp, Ludovic); Matsuoka, T (Matsuoka, Takeshi); Firestein, KL (Firestein, Konstantin L.); Sagae, D (Sagae, Daisuke); Habara, H (Habara, Hideaki); Mukai, K (Mukai, Keiichiro); Tanaka, KA (Tanaka, Kazuo A.); Gamaly, EG (Gamaly, Eugene G.); Kodama, R (Kodama, Ryosuke); Seto, Y (Seto, Yusuke); Shobu, T (Shobu, Takahisa); Tominaga, A (Tominaga, Aki); Smillie, L (Smillie, Lachlan); Pikuz, T (Pikuz, Tatiana); Haberl, B (Haberl, Bianca); Yabuuchi, T (Yabuuchi, Toshinori); Togashi, T (Togashi, Tadashi); Inubushi, Y (Inubushi, Yuichi); Yabashi, M (Yabashi, Makina); Juodkazis, S (Juodkazis, Saulius); Golberg, DV (Golberg, Dmitri V.); Rode, AV (Rode, Andrei V.); Ozaki, N (Ozaki, Norimasa)

Source: PHYSICAL REVIEW RESEARCH **Volume:** 6 **Issue:** 2 **Article Number:** 023101 **DOI:** 10.1103/PhysRevResearch.6.023101 **Published Date:** 2024 APR 29

30 of 458

Title: Extending the Depth of Focus of an Infrared Microscope Using a Binary Axicon Fabricated on Barium Fluoride

Author(s): Han, ML (Han, Molong); Smith, D (Smith, Daniel); Kahro, T (Kahro, Tauno); Stonyte, D (Stonyte, Dominyka); Kasikov, A (Kasikov, Aarne); Gailevicius, D (Gailevicius, Darius); Tiwari, V (Tiwari, Vipin); Xavier, API (Xavier, Agnes Pristy Ignatius); Gopinath, S (Gopinath, Shivasubramanian); Ng, SH (Ng, Soon Hock); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Tamm, A (Tamm, Aile); Kukli, K (Kukli, Kaupo); Bambery, K (Bambery, Keith); Vongsvivut, J (Vongsvivut, Jitraporn); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: MICROMACHINES **Volume:** 15 **Issue:** 4 **Article Number:** 537 **DOI:** 10.3390/mi15040537 **Published Date:** 2024 APR

31 of 458

Title: Self-assembly plasmonic gold nanoribbons on few-layer PtSe₂ under femtosecond laser irradiation

Author(s): Chu, LR (Chu, Lingrui); Zhu, H (Zhu, Han); Lv, HY (Lv, Hengyue); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: APPLIED PHYSICS LETTERS **Volume:** 124 **Issue:** 13 **Article Number:** 131106 **DOI:** 10.1063/5.0199426 **Published Date:** 2024 MAR 25

32 of 458

Title: Emerging trends in biomass-derived porous carbon materials for hydrogen storage

Author(s): Elyasi, S (Elyasi, Setareh); Saha, S (Saha, Shalakha); Hameed, N (Hameed, Nishar); Mahon, PJ (Mahon, Peter J.); Juodkazis, S (Juodkazis, Saulius); Salim, N (Salim, Nisa)

Source: INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 62 **Pages:** 272-306 **DOI:** 10.1016/j.ijhydene.2024.02.337 **Early Access Date:** MAR 2024 **Published Date:** 2024 APR 10

33 of 458

Title: Optimizing the temporal and spatial resolutions and light throughput of Fresnel incoherent correlation holography in the framework of coded aperture imaging

Author(s): Arockiaraj, FG (Arockiaraj, Francis Gracy); Xavier, API (Xavier, Agnes Pristy Ignatius); Gopinath, S (Gopinath, Shivasubramanian); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: JOURNAL OF OPTICS **Volume:** 26 **Issue:** 3 **Article Number:** 035605 **DOI:** 10.1088/2040-8986/ad2620 **Published Date:** 2024 MAR 1

34 of 458

Title: Single femtosecond pulse writing of a bifocal lens

Author(s): Zhang, X (Zhang, Xu); Wang, L (Wang, Lei); Cao, XW (Cao, Xiao-Wen); Jiang, S (Jiang, Shu); Yu, YH (Yu, Yan-Hao); Xu, WW (Xu, Wei-Wei); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai)

Source: OPTICS LETTERS **Volume:** 49 **Issue:** 4 **Pages:** 911-914 **DOI:** 10.1364/OL.515811 **Published Date:** 2024 FEB 15

35 of 458

Title: Fraxicon for Optical Applications with Aperture ~1 mm: Characterisation Study

Author(s): Mu, HR (Mu, Haoran); Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Le, NHA (Le, Nguyen Hoai An); Dharmavarapu, R (Dharmavarapu, Raghu); Khajehsaeidimahabadi, Z (Khajehsaeidimahabadi, Zahra); Richardson, RT (Richardson, Rachael T.); Ruther, P (Ruther, Patrick); Stoddart, PR (Stoddart, Paul R.); Gricius, H (Gricius, Henrikas); Baravykas, T (Baravykas, Tomas); Gailevicius, D (Gailevicius, Darius); Seniutinas, G (Seniutinas, Gediminas); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 14 **Issue:** 3 **Article Number:** 287 **DOI:** 10.3390/nano14030287 **Published Date:** 2024 FEB

Accession Number: WOS:001161289500001

36 of 458

Title: Determination of Stokes Vector from a Single Image Acquisition

Author(s): Kamegaki, S (Kamegaki, Shuji); Ryu, M (Ryu, Meguya); Ng, SH (Ng, Soon Hock); Mizeikis, V (Mizeikis, Vygantas); Blamires, SJ (Blamires, Sean J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: ANNALEN DER PHYSIK **Volume:** 536 **Issue:** 6 **DOI:** 10.1002/andp.202300471 **Early Access Date:** JAN 2024 **Published Date:** 2024 JUN

37 of 458

Title: Genetic Transformation of Plasmid DNA into *Escherichia coli* Using High Frequency Electromagnetic Energy

Author(s): Perera, PGT (Perera, Palalle G. Tharushi); Linklater, DP (Linklater, Denver P.); Vilagosh, Z (Vilagosh, Zoltan); Nguyen, THP (Nguyen, The Hong Phong); Hanssen, E (Hanssen, Eric); Rubanov, S (Rubanov, Sergey); Wanjara, S (Wanjara, Steve); Aadum, B (Aadum, Bari); Alfred, R (Alfred, Rebecca); Dekiwadia, C (Dekiwadia, Chaitali); Juodkazis, S (Juodkazis, Saulius); Croft, R (Croft, Rodney); Ivanova, EP (Ivanova, Elena P.)

Source: NANO LETTERS **Volume:** 24 **Issue:** 4 **Pages:** 1145-1152 **DOI:** 10.1021/acs.nanolett.3c03464 **Published Date:** 2024 JAN 9

Accession Number: WOS:001155531500001

38 of 458

Title: Titania nanoengineering towards efficient plasmonic photocatalysis: Mono- and bi-metal-modified mesoporous microballs built of faceted anatase

Author(s): Wei, ZS (Wei, Zhishun); Wu, LM (Wu, Limeng); Yue, X (Yue, Xin); Mu, HR (Mu, Haoran); Li, ZH (Li, Zhenhao); Chang, Y (Chang, Ying); Janczarek, M (Janczarek, Marcin); Juodkazis, S (Juodkazis, Saulius); Kowalska, E (Kowalska, Ewa)

Source: APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY **Volume:** 345 **Article Number:** 123654 **DOI:** 10.1016/j.apcatb.2023.123654 **Early Access Date:** JAN 2024 **Published Date:** 2024 MAY 15

39 of 458

Title: Fine 3D control of THz emission in air with dual femtosecond laser pre-pulses at tunnelling ionisation regime

Author(s): Huang, HH (Huang, Hsin-Hui); Nagashima, T (Nagashima, Takeshi); Kumagai, K (Kumagai, Kota); Hayasaki, Y (Hayasaki, Yoshio); Juodkazis, S (Juodkazis, Saulius); Tikhonchuk, VT (Tikhonchuk, Vladimir T.); Hatanaka, K (Hatanaka, Koji)

Source: LIGHT-ADVANCED MANUFACTURING **Volume:** 5 **Issue:** 3 **Article Number:** 30 **DOI:** 10.37188/lam.2024.030 **Published Date:** 2024

40 of 458

Title: X-photon 3D lithography by fs-oscillators: wavelength-independent and photoinitiator-free

Author(s): Ladika, D (Ladika, Dimitra); Butkus, A (Butkus, Antanas); Melissinaki, V (Melissinaki, Vasileia); Skliutas, E (Skliutas, Edvinas); Kabouraki, E (Kabouraki, Elmina); Juodkazis, S (Juodkazis, Saulius); Farsari, M (Farsari, Maria); Malinauskas, M (Malinauskas, Mangirdas)

Source: LIGHT-ADVANCED MANUFACTURING **Volume:** 5 **Issue:** 4 **Pages:** 567-579 **DOI:** 10.37188/lam.2024.048 **Published Date:** 2024

41 of 458

Title: X-photon laser direct write 3D nanolithography

Author(s): Skliutas, E (Skliutas, Edvinas); Samsonas, D (Samsonas, Danielius); Ciburyš, A (Ciburyš, Arunas); Kontenis, L (Kontenis, Lukas); Gailevicius, D (Gailevicius, Darius); Berzins, J (Berzins, Jonas); Narbutas, D (Narbutas, Donatas); Jukna, V (Jukna, Vytautas); Vengris, M (Vengris, Mikas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: VIRTUAL AND PHYSICAL PROTOTYPING **Volume:** 18 **Issue:** 1 **Article Number:** e2228324 **DOI:** 10.1080/17452759.2023.2228324 **Published Date:** 2023 DEC 31

42 of 458

Title: Translocation of Pyrimidine Derivative-Capped Gold Nanoparticles via Membrane Ion Channels Induce *Pseudomonas aeruginosa* and *Staphylococcus aureus* Cell Death

Author(s): Yin, SY (Yin, Suyao); Linklater, DP (Linklater, Denver P.); Li, ZY (Li, Zheyu); Zhao, S (Zhao, Shuo); He, S (He, Shuai); Xiang, S (Xiang, Shuai); Sun, LF (Sun, Linfeng); Han, L (Han, Lin); Wen, LP (Wen, Liping); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.); Jiang, L (Jiang, Lei); Sun, K (Sun, Kai)

Source: ACS MATERIALS LETTERS **Volume:** 6 **Issue:** 2 **Pages:** 418-426 **DOI:** 10.1021/acsmaterialslett.3c01326 **Published Date:** 2023 DEC 28

43 of 458

Title: Teeth Microcracks Research: Towards Multi-Modal Imaging

Author(s): Dumbryte, I (Dumbryte, Irma); Narbutis, D (Narbutis, Donatas); Androulidaki, M (Androulidaki, Maria); Vailionis, A (Vailionis, Arturas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: BIOENGINEERING-BASEL **Volume:** 10 **Issue:** 12 **Article Number:** 1354 **DOI:** 10.3390/bioengineering10121354 **Published Date:** 2023 DEC

44 of 458

Title: Computational Imaging at the Infrared Beamline of the Australian Synchrotron Using the Lucy-Richardson-Rosen Algorithm

Author(s): Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Han, ML (Han, Molong); Smith, D (Smith, Daniel); Maksimovic, J (Maksimovic, Jovan); Katkus, T (Katkus, Tomas); Klein, A (Klein, Annaleise); Bamberg, K (Bamberg, Keith); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SCIENCES-BASEL **Volume:** 13 **Issue:** 23 **Article Number:** 12948 **DOI:** 10.3390/app132312948 **Published Date:** 2023 DEC

45 of 458

Title: Structural and Thermal Diffusivity Analysis of an Organoferroelastic Crystal Showing Scissor-Like Two-Directional Deformation Induced by Uniaxial Compression

Author(s): Ranjan, S (Ranjan, Subham); Ryu, M (Ryu, Meguya); Morioka, R (Morioka, Ryota); Kamegaki, S (Kamegaki, Shuji); Ng, SH (Ng, Soon Hock); Smith, D (Smith, Daniel); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko); Takamizawa, S (Takamizawa, Satoshi)

Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **Volume:** 145 **Issue:** 42 **Pages:** 23027-23036 **DOI:** 10.1021/jacs.3c05545 **Early Access Date:** OCT 2023 **Published Date:** 2023 OCT 12

46 of 458

Title: Bridging Performance Gaps: Exploring New Classes of Materials for Future Spintronics Technological Challenges

Author(s): Al-Qatatsheh, A (Al-Qatatsheh, Ahmed); Juodkazis, S (Juodkazis, Saulius); Hameed, N (Hameed, Nishar)

Source: ADVANCED QUANTUM TECHNOLOGIES **Volume:** 6 **Issue:** 12 **DOI:** 10.1002/qute.202300204 **Early Access Date:** OCT 2023 **Published Date:** 2023 DEC

47 of 458

Title: Superhydrophobic and Anti-Icing Surface by Femtosecond Laser Direct Writing

Author(s): Zhu, ZK (Zhu, Zhenkai); Wu, PC (Wu, Peichao); Juodkazis, S (Juodkazis, Saulius); Wang, J (Wang, Ji); Yao, SB (Yao, Songbai); Yao, JH (Yao, Jianhua); Zhang, WW (Zhang, Wenwu)

Source: ADVANCED ENGINEERING MATERIALS **Volume:** 25 **Issue:** 20 **DOI:** 10.1002/adem.202300575 **Early Access Date:** SEP 2023 **Published Date:** 2023 OCT

48 of 458

Title: Exploring CuBi₂O₄ as a Promising Photocathode Material for PEC Water Splitting

Author(s): Meena, B (Meena, Bhagatram); Kumar, M (Kumar, Mohit); Hocking, RK (Hocking, Rosalie K.); Juodkazis, S (Juodkazis, Saulius); Biju, V (Biju, Vasudevanpillai); Subramanyam, P (Subramanyam, Palyam); Subrahmanyam, C (Subrahmanyam, Challapalli)

Source: ENERGY & FUELS **Volume:** 37 **Issue:** 18 **Pages:** 14280-14289 **DOI:** 10.1021/acs.energyfuels.3c00731 **Early Access Date:** SEP 2023 **Published Date:** 2023 SEP 5

49 of 458

Title: Self-assembled gold nanoribbons via surface plasmon polaritons: The role of femtosecond laser

Author(s): Chu, LR (Chu, Lingrui); Mu, HR (Mu, Haoran); Zhu, H (Zhu, Han); Wu, B (Wu, Bo); Liu, WJ (Liu, Weijie); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: MATERIALS TODAY NANO **Volume:** 24 **Article Number:** 100402 **DOI:** 10.1016/j.mtnano.2023.100402 **Early Access Date:** SEP 2023 **Published Date:** 2023 DEC

50 of 458

Title: Optical Analogs of Rabi Splitting in Integrated Waveguide-Coupled Resonators

Author(s): Arianfard, H (Arianfard, Hamed); Wu, JY (Wu, Jiayang); Juodkazis, S (Juodkazis, Saulius); Moss, DJ (Moss, David J.)

Source: ADVANCED PHYSICS RESEARCH **Volume:** 2 **Issue:** 9 **Article Number:** 2200123 **DOI:** 10.1002/apxr.202200123 **Published Date:** 2023 SEP

51 of 458

Title: Mechanism of Single-Cycle THz Pulse Generation and X-ray Emission: Water-Flow Irradiated by Two Ultra-Short Laser Pulses

Author(s): Huang, HH (Huang, Hsin-Hui); Juodkazis, S (Juodkazis, Saulius); Gamaly, EG (Gamaly, Eugene G.); Tikhonchuk, VT (Tikhonchuk, Vladimir T.); Hatanaka, K (Hatanaka, Koji)

Source: NANOMATERIALS **Volume:** 13 **Issue:** 18 **Article Number:** 2505 **DOI:** 10.3390/nano13182505 **Published Date:** 2023 SEP

Accession Number: WOS:001077910100001

52 of 458

Title: Four-Polarisation Camera for Anisotropy Mapping at Three Orientations: Micro-Grain of Olivine

Author(s): Kamegaki, S (Kamegaki, Shuji); Smith, D (Smith, Daniel); Ryu, M (Ryu, Meguya); Ng, SH (Ng, Soon Hock); Huang, HH (Huang, Hsin-Hui); Maasoumi, P (Maasoumi, Pegah); Vongsvivut, J (Vongsvivut, Jitraporn); Moraru, D (Moraru, Daniel); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: COATINGS **Volume:** 13 **Issue:** 9 **Article Number:** 1640 **DOI:** 10.3390/coatings13091640 **Published Date:** 2023 SEP

53 of 458

Title: Femtosecond laser modification of vanadium dioxide for color display applications

Author(s): Xie, RR (Xie, Ran-Ran); Zhu, H (Zhu, Han); Xing, RF (Xing, Ruofei); Chu, LR (Chu, Lingrui); Wang, ZQ (Wang, Zhuoqun); Xia, RY (Xia, Ruyi); Zhao, WX (Zhao, Wenxiao); Jia, YC (Jia, Yuechen); Chen, YX (Chen, Yanxue); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: APPLIED PHYSICS LETTERS **Volume:** 123 **Issue:** 9 **Article Number:** 093101 **DOI:** 10.1063/5.0166212 **Published Date:** 2023 AUG 28

54 of 458

Title: Optimal Deposition of a Thin FeOOH Layer on S-TiO₂/BiSbS₃ p-n Junction for Improved Solar Water Splitting and Mechanistic Insights

Author(s): Meena, B (Meena, Bhagatram); Kumar, M (Kumar, Mohit); Subramanyam, P (Subramanyam, Palyam); Nagumothu, R (Nagumothu, Rameshbabu); Smith, D (Smith, Daniel); Juodkazis, S (Juodkazis, Saulius); Subrahmanyam, C (Subrahmanyam, Challapalli)

Source: MATERIALS RESEARCH BULLETIN **Volume:** 168 **Article Number:** 112493 **DOI:** 10.1016/j.materresbull.2023.112493 **Early Access Date:** AUG 2023 **Published Date:** 2023 DEC

55 of 458

Title: Self-wavefront interference using transverse splitting holography

Author(s): Bleahu, AI (Bleahu, Andrei-ioan); Gopinath, S (Gopinath, Shivasubramanian); Kahro, T (Kahro, Tauno); Ng, SH (Ng, Soon Hock); Kukli, K (Kukli, Kaupo); Tamm, A (Tamm, Aile); Juodkazis, S (Juodkazis, Saulius); Rosen, J (Rosen, Joseph); Anand, V (Anand, Vijayakumar)

Source: RESULTS IN PHYSICS **Volume:** 52 **Article Number:** 106839 **DOI:** 10.1016/j.rinp.2023.106839 **Early Access Date:** AUG 2023 **Published Date:** 2023 SEP

56 of 458

Title: Ultrafast Laser-Induced Plasmonic Modulation of Optical Properties of Dielectrics at High Resolution

Author(s): Zhu, H (Zhu, Han); Chu, LR (Chu, Lingrui); Liu, WJ (Liu, Weijie); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 11 **Issue:** 22 **DOI:** 10.1002/adom.202300929 **Early Access Date:** JUL 2023 **Published Date:** 2023 NOV

57 of 458

Title: Linearly Polarized Infrared Spectroscopy for the Analysis of Biological Materials

Author(s): Gassner, C (Gassner, Callum); Vongsvivut, J (Vongsvivut, Jitraporn); Ng, SH (Ng, Soon Hock); Ryu, M (Ryu, Meguya); Tobin, MJ (Tobin, Mark J. J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko); Wood, BR (Wood, Bayden R. R.)

Source: APPLIED SPECTROSCOPY **Volume:** 77 **Issue:** 9 **Pages:** 977-1008 **DOI:** 10.1177/00037028231180233 **Early Access Date:** JUL 2023 **Published Date:** 2023 SEP

58 of 458

Title: Laser-Metal Interaction with a Pulse Shorter than the Ion Period: Ablation Threshold, Electron Emission and Ion Explosion

Author(s): Gamaly, EG (Gamaly, Eugene G. G.); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 13 **Issue:** 11 **Article Number:** 1796 **DOI:** 10.3390/nano13111796 **Published Date:** 2023 JUN 3

59 of 458

Title: Magnetically Cured Macroradical Epoxy as Antimicrobial Coating

Author(s): Capricho, JC (Capricho, Jaworski C. C.); Liao, TY (Liao, Tzu-Ying); Chai, BX (Chai, Boon Xian); Al-Qatatsheh, A (Al-Qatatsheh, Ahmed); Vongsvivut, J (Vongsvivut, Jitraporn (Pimm)); Kingshott, P (Kingshott, Peter); Juodkazis, S (Juodkazis, Saulius); Fox, BL (Fox, Bronwyn Louise); Hameed, N (Hameed, Nishar)

Source: CHEMISTRY-AN ASIAN JOURNAL **Volume:** 18 **Issue:** 13 **DOI:** 10.1002/asia.202300237 **Early Access Date:** JUN 2023 **Published Date:** 2023 JUL 3

60 of 458

Title: Structure and Optical Anisotropy of Spider Scales and Silk: The Use of Chromaticity and Azimuth Colors to Optically Characterize Complex Biological Structures

Author(s): Linklater, D (Linklater, Denver); Vailionis, A (Vailionis, Arturas); Ryu, M (Ryu, Meguya); Kamegaki, S (Kamegaki, Shuji); Morikawa, J (Morikawa, Junko); Mu, HR (Mu, Haoran); Smith, D (Smith, Daniel); Maasoumi, P (Maasoumi, Pegah); Ford, R (Ford, Rohan); Katkus, T (Katkus, Tomas); Blamires, S (Blamires, Sean); Kondo, T (Kondo, Toshiaki); Nishijima, Y (Nishijima, Yoshiaki); Moraru, D

(Moraru, Daniel); Shribak, M (Shribak, Michael); O'Connor, A (O'Connor, Andrea); Ivanova, EP (Ivanova, Elena P.); Ng, SH (Ng, Soon Hock); Masuda, H (Masuda, Hideki); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 13 **Issue:** 12 **Article Number:** 1894 **DOI:** 10.3390/nano13121894 **Published Date:** 2023 JUN

61 of 458

Title: Optical near fields for ablation of periodic structures

Author(s): Xu, YS (Xu, Yi-Shi); Li, ZZ (Li, Zhen-Ze); Fan, H (Fan, Hua); Liu, YF (Liu, Yue-Feng); Xia, H (Xia, Hong); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai); Wang, L (Wang, Lei)

Source: OPTICS LETTERS **Volume:** 48 **Issue:** 11 **Pages:** 2841-2844 **DOI:** 10.1364/OL.487323 **Published Date:** 2023 JUN 1

62 of 458

Title: Crystalline Flat Surface Recovered by High-Temperature Annealing after Laser Ablation

Author(s): Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Tang, AMD (Tang, Amanda); Katkus, T (Katkus, Tomas); Moraru, D (Moraru, Daniel); Juodkazis, S (Juodkazis, Saulius)

Source: PHOTONICS **Volume:** 10 **Issue:** 5 **Article Number:** 594 **DOI:** 10.3390/photonics10050594 **Published Date:** 2023 MAY 19

63 of 458

Title: Fabrication of Glass-Ceramic 3D Micro-Optics by Combining Laser Lithography and Calcination

Author(s): Balcas, G (Balcas, Giedrius); Malinauskas, M (Malinauskas, Mangirdas); Farsari, M (Farsari, Maria); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED FUNCTIONAL MATERIALS **DOI:** 10.1002/adfm.202215230 **Early Access Date:** MAY 2023 **Published Date:** 2023 MAY 14

64 of 458

Title: Femtosecond Laser Direct-Write Plasmonic Nanolithography in Dielectrics (vol 2, 2200038, 2022)

Author(s): Zhu, H (Zhu, Han); Wu, B (Wu, Bo); Gao, MS (Gao, Mingsheng); Ren, F (Ren, Feng); Qin, W (Qin, Wei); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: SMALL SCIENCE **Volume:** 3 **Issue:** 5 **Article Number:** 2300054 **DOI:** 10.1002/smssc.202300054 **Published Date:** 2023 MAY

65 of 458

Title: Nanoscale control of non-reciprocal ripple writing

Author(s): Xu, YS (Xu, Yi-shi); Li, ZZ (Li, Zhen-ze); Wang, ZH (Wang, Zi-han); Xia, H (Xia, Hong); Liu, YF (Liu, Yue-feng); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-dai); Wang, L (Wang, Lei)

Source: OPTICS EXPRESS **Volume:** 31 **Issue:** 9 **Pages:** 14796-14807 **DOI:** 10.1364/OE.487107 **Published Date:** 2023 APR 24

66 of 458

Title: Rapidly Cured Multifunctional Epoxy Resins with Switchable Curing Temperature and Exceptional Electrical Properties

Author(s): Al-Qatatsheh, A (Al-Qatatsheh, Ahmed); Vongsvivut, J (Vongsvivut, Jitraporn); Juodkazis, S (Juodkazis, Saulius); Salim, NV (Salim, Nisa V.); Hameed, N (Hameed, Nishar)

Source: ADVANCED MATERIALS TECHNOLOGIES **Volume:** 8 **Issue:** 12 **DOI:** 10.1002/admt.202202028 **Early Access Date:** APR 2023 **Published Date:** 2023 JUN

67 of 458

Title: Improved Classification of Blurred Images with Deep-Learning Networks Using Lucy-Richardson-Rosen Algorithm

Author(s): Jayavel, A (Jayavel, Amudhavel); Gopinath, S (Gopinath, Shivasubramanian); Angamuthu, PP (Angamuthu, Praveen Periyasamy); Arockiaraj, FG (Arockiaraj, Francis Gracy); Bleahu, A (Bleahu, Andrei); Xavier, API (Xavier, Agnes Pristy Ignatius); Smith, D (Smith, Daniel); Han, ML (Han, Molong); Slobozhan, I (Slobozhan, Ivan); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Sharma, R (Sharma, Rajesh); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: PHOTONICS **Volume:** 10 **Issue:** 4 **Article Number:** 396 **DOI:** 10.3390/photonics10040396 **Published Date:** 2023 APR

68 of 458

Title: Polarisation Control in Arrays of Microlenses and Gratings: Performance in Visible-IR Spectral Ranges

Author(s): Mu, HR (Mu, Haoran); Smith, D (Smith, Daniel); Katkus, T (Katkus, Tomas); Gailevicius, D (Gailevicius, Darius); Malinauskas, M (Malinauskas, Mangirdas); Nishijima, Y (Nishijima, Yoshiaki); Stoddart, PR (Stoddart, Paul R.); Ruan, D (Ruan, Dong); Ryu, M (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Vasiliev, T (Vasiliev, Taras); Lozovski, V (Lozovski, Valeri); Moraru, D (Moraru, Daniel); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 14 **Issue:** 4 **Article Number:** 798 **DOI:** 10.3390/mi14040798 **Published Date:** 2023 APR

69 of 458

Title: Fabrication of Cylindrical Microlens by Femtosecond Laser-Assisted Hydrofluoric Acid Wet Etching of Fused Silica

Author(s): Wu, PC (Wu, Peichao); Cao, XW (Cao, Xiaowen); Chen, ZH (Chen, Zhihao); Yuan, HB (Yuan, Hongbing); Yu, JT (Yu, Jingtian); Juodkazis, S (Juodkazis, Saulius); Zhang, WW (Zhang, Wenwu)

Source: ADVANCED PHOTONICS RESEARCH **Volume:** 4 **Issue:** 4 **Article Number:** 2200227 **DOI:** 10.1002/adpr.202200227 **Published Date:** 2023 APR

70 of 458

Title: Two-Photon Polymerization Lithography for Optics and Photonics: Fundamentals, Materials, Technologies, and Applications

Author(s): Wang, H (Wang, Hao); Zhang, W (Zhang, Wang); Ladika, D (Ladika, Dimitra); Yu, HY (Yu, Haoyi); Gailevicius, D (Gailevicius, Darius); Wang, HT (Wang, Hongtao); Pan, CF (Pan, Cheng-Feng); Nair, PNS (Nair, Parvathi Nair Suseela); Ke, YJ (Ke, Yujie); Mori, T (Mori, Tomohiro); Chan, JYE (Chan, John

You En); Ruan, QF (Ruan, Qifeng); Farsari, M (Farsari, Maria); Malinauskas, M (Malinauskas, Mangirdas); Juodkazis, S (Juodkazis, Saulius); Gu, M (Gu, Min); Yang, JKW (Yang, Joel K. W.)

Source: ADVANCED FUNCTIONAL MATERIALS **Volume:** 33 **Issue:** 39 **Special Issue:** SI **DOI:** 10.1002/adfm.202214211 **Early Access Date:** MAR 2023 **Published Date:** 2023 SEP

71 of 458

Title: Fresnel zone plate sculptured out of diamond by femtosecond laser for harsh environments

Author(s): Wu, PC (Wu, Peichao); Cao, XW (Cao, Xiaowen); Chu, WB (Chu, Wubo); Chen, ZH (Chen, Zhihao); Yuan, HB (Yuan, Hongbing); Wang, RJ (Wang, Rujia); Yao, SB (Yao, Songbai); Juodkazis, S (Juodkazis, Saulius); Zhang, WW (Zhang, Wenwu)

Source: OPTICS LETTERS **Volume:** 48 **Issue:** 6 **Pages:** 1379-1382 **DOI:** 10.1364/OL.482327 **Published Date:** 2023 MAR 15

72 of 458

Title: Laser-Induced Cavitation-Assisted True 3D Nano-Sculpturing of Hard Materials

Author(s): Hua, JG (Hua, Jian-Guan); Ren, H (Ren, Hang); Huang, JT (Huang, Jiatai); Luan, ML (Luan, Mei-Ling); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: SMALL **Volume:** 19 **Issue:** 24 **DOI:** 10.1002/smll.202207968 **Early Access Date:** MAR 2023 **Published Date:** 2023 JUN

73 of 458

Title: Crosslinking Rapidly Cured Epoxy Resin Thermosets: Experimental and Computational Modeling and Simulation Study

Author(s): Al-Qatatsheh, A (Al-Qatatsheh, Ahmed); Capricho, JC (Capricho, Jaworski C. C.); Raiteri, P (Raiteri, Paolo); Juodkazis, S (Juodkazis, Saulius); Salim, N (Salim, Nisa); Hameed, N (Hameed, Nishar)

Source: POLYMERS **Volume:** 15 **Issue:** 5 **Article Number:** 1325 **DOI:** 10.3390/polym15051325 **Published Date:** 2023 MAR

74 of 458

Title: Sagnac interference in integrated photonics

Author(s): Arianfard, H (Arianfard, Hamed); Juodkazis, S (Juodkazis, Saulius); Moss, DJ (Moss, David J.); Wu, JY (Wu, Jiayang)

Source: APPLIED PHYSICS REVIEWS **Volume:** 10 **Issue:** 1 **Article Number:** 011309 **DOI:** 10.1063/5.0123236 **Published Date:** 2023 MAR

75 of 458

Title: Si-Cr Nano-Alloys Fabricated by Direct Femtosecond Laser Writing

Author(s): Maksimovic, J (Maksimovic, Jovan); Mu, HR (Mu, Haoran); Han, ML (Han, Molong); Smith, D (Smith, Daniel); Katkus, T (Katkus, Tomas); Anand, V (Anand, Vijayakumar); Nishijima, Y (Nishijima, Yoshiaki); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: MATERIALS **Volume:** 16 **Issue:** 5 **Article Number:** 1917 **DOI:** 10.3390/ma16051917 **Published Date:** 2023 MAR

76 of 458

Title: Laser-Patterned Alumina Mask and Mask-Less Dry Etch of Si for Light Trapping with Photonic Crystal Structures

Author(s): Maksimovic, J (Maksimovic, Jovan); Mu, HR (Mu, Haoran); Smith, D (Smith, Daniel); Katkus, T (Katkus, Tomas); Vaiciulis, M (Vaiciulis, Mantas); Aleksiejunas, R (Aleksiejunas, Ramunas); Seniutinas, G (Seniutinas, Gediminas); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 14 **Issue:** 3 **Article Number:** 550 **DOI:** 10.3390/mi14030550 **Published Date:** 2023 MAR

77 of 458

Title: Feasibility of Magneto-Encephalography Scan under Color-Tailored Illumination

Author(s): Weerasuriya, C (Weerasuriya, Charitha); Ng, SH (Ng, Soon Hock); Woods, W (Woods, William); Johnstone, T (Johnstone, Tom); Vitta, P (Vitta, Pranciskus); Hugrass, L (Hugrass, Laila); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SCIENCES-BASEL **Volume:** 13 **Issue:** 5 **Article Number:** 2988 **DOI:** 10.3390/app13052988 **Published Date:** 2023 MAR

78 of 458

Title: Functionalized Gold Nanoclusters Promote Stress Response in COS-7 Cells

Author(s): Linklater, DP (Linklater, Denver P.); Le Guével, X (Le Guevel, Xavier); Kosyer, E (Kosyer, Erim); Rubanov, S (Rubanov, Sergey); Bryant, G (Bryant, Gary); Hanssen, E (Hanssen, Eric); Baulin, VA (Baulin, Vladimir A.); Pereiro, E (Pereiro, Eva); Perera, PG (Perera, Palalle G. Tharushi); Wandiyanto, JV (Wandiyanto, Jason V.); Angulo, A (Angulo, Ana); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: ADVANCED NANOBIO MED RESEARCH **Volume:** 3 **Issue:** 4 **DOI:** 10.1002/anbr.202200102 **Early Access Date:** FEB 2023 **Published Date:** 2023 APR

79 of 458

Title: 3D nanopolymerization and damage threshold dependence on laser wavelength and pulse duration

Author(s): Samsonas, D (Samsonas, Danielius); Skliutas, E (Skliutas, Edvinas); Cibury, A (Cibury, Arunas); Kontenis, L (Kontenis, Lukas); Gailevicius, D (Gailevicius, Darius); Berzins, J (Berzins, Jonas); Narbutis, D (Narbutis, Donatas); Jukna, V (Jukna, Vytutas); Vengris, M (Vengris, Mikas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: NANOPHOTONICS **Volume:** 12 **Issue:** 8 **Pages:** 1537-1548 **DOI:** 10.1515/nanoph-2022-0629 **Early Access Date:** JAN 2023 **Published Date:** 2023 APR 25

80 of 458

Title: Chinese <i>Optics Letters</i> at its 20th anniversary: harvesting and sowing anew

Author(s): Chen, F (Chen, Feng); Juodkazis, S (Juodkazis, Saulius); Lu, YQ (Lu, Yanqing)

Source: CHINESE OPTICS LETTERS **Volume:** 21 **Issue:** 1 **Article Number:** 010001 **DOI:** 10.3788/COL202321.010001 **Published Date:** 2023 JAN 10

81 of 458

Title: Implementation of a Large-Area Diffractive Lens Using Multiple Sub-Aperture Diffractive Lenses and Computational Reconstruction

Author(s): Gopinath, S (Gopinath, Shivasubramanian); Angamuthu, PP (Angamuthu, Praveen Periyasamy); Kahro, T (Kahro, Tauno); Bleahu, A (Bleahu, Andrei); Arockiaraj, FG (Arockiaraj, Francis Gracy); Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Kukli, K (Kukli, Kaupo); Tamm, A (Tamm, Aile); Anand, V (Anand, Vijayakumar)

Source: PHOTONICS **Volume:** 10 **Issue:** 1 **Article Number:** 3 **DOI:** 10.3390/photonics10010003 **Published Date:** 2023 JAN

82 of 458

Title: Top-down control of bottom-up material synthesis @ nanoscale

Author(s): Juodkazis, S (Juodkazis, Saulius)

Source: OPTO-ELECTRONIC ADVANCES **Volume:** 6 **Issue:** 4 **Article Number:** 230023 **DOI:** 10.29026/oea.2023.230023 **Published Date:** 2023

83 of 458

Title: Biomimetic Nanopillar Silicon Surfaces Rupture Fungal Spores

Author(s): Linklater, DP (Linklater, Denver P.); Le, PH (Le, Phuc H.); Aburto-Medina, A (Aburto-Medina, Arturo); Crawford, RJ (Crawford, Russell J.); Maclaughlin, S (Maclaughlin, Shane); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 24 **Issue:** 2 **Article Number:** 1298 **DOI:** 10.3390/ijms24021298 **Published Date:** 2023 JAN

84 of 458

Title: Holographic laser fabrication of 3D artificial compound μ -eyes

Author(s): Wang, L (Wang, Lei); Gong, W (Gong, Wei); Cao, XW (Cao, Xiao-Wen); Yu, YH (Yu, Yan-Hao); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai)

Source: LIGHT-ADVANCED MANUFACTURING **Volume:** 4 **Issue:** 4 **Article Number:** 26 **DOI:** 10.37188/lam.2023.026 **Published Date:** 2023

85 of 458

Title: Revelation of microcracks as tooth structural element by X-ray tomography and machine learning

Author(s): Dumbryte, I (Dumbryte, Irma); Narbutis, D (Narbutis, Donatas); Vailionis, A (Vailionis, Arturas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 22489 **DOI:** 10.1038/s41598-022-27062-5 **Published Date:** 2022 DEC 28

86 of 458

Title: Wavelength-Sensitive Optical Tweezers Using Black-Si Nanospikes for Controlling the Internal Polarity of a Polymer Droplet

Author(s): Nagai, T (Nagai, Tatsuya); Yuyama, KI (Yuyama, Ken-ichi); Shoji, T (Shoji, Tatsuya); Matsumura, Y (Matsumura, Yuriko); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius); Tsuboi, Y (Tsuboi, Yasuyuki)

Source: ACS APPLIED NANO MATERIALS **Volume:** 6 **Issue:** 1 **Pages:** 180-189 **DOI:** 10.1021/acsanm.2c04222 **Early Access Date:** DEC 2022 **Published Date:** 2023 JAN 13

87 of 458

Title: RGB-Color Image Analysis for Determination of Birefringence of Micro-Films and Columnar Coatings

Author(s): Ryu, M (Ryu, Meguya); Han, ML (Han, Molong); Grineviciute, L (Grineviciute, Lina); Hu, JW (Hu, Jingwen); Moein, T (Moein, Tania); Honda, R (Honda, Reo); Katkus, T (Katkus, Tomas); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Tolenis, T (Tolenis, Tomas); Nishijima, Y (Nishijima, Yoshiaki); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: LASER & PHOTONICS REVIEWS **Volume:** 17 **Issue:** 3 **DOI:** 10.1002/lpor.202200535 **Early Access Date:** DEC 2022 **Published Date:** 2023 MAR

eISSN: 1863-8899

88 of 458

Title: Single Shot Lensless Interferenceless Phase Imaging of Biochemical Samples Using Synchrotron near Infrared Beam

Author(s): Han, ML (Han, Molong); Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Praveen, PA (Praveen, Periyasamy Angamuthu); Bambery, KR (Bambery, Keith R.); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: BIOSENSORS-BASEL **Volume:** 12 **Issue:** 12 **Article Number:** 1073 **DOI:** 10.3390/bios12121073 **Published Date:** 2022 DEC

89 of 458

Title: Microparticles of High Entropy Alloys Made by Laser-Induced Forward Transfer

Author(s): Han, M (Han, Molong); Meghwal, A (Meghwal, Ashok); Ng, SH (Ng, Soon Hock); Smith, D (Smith, Daniel); Mu, HR (Mu, Haoran); Katkus, T (Katkus, Tomas); Zhu, DM (Zhu, De Ming); Mukhlis, R (Mukhlis, Reiza); Vongsvivut, J (Vongsvivut, Jitraporn); Berndt, CC (Berndt, Christopher C.); Ang, ASM (Ang, Andrew S. M.); Juodkazis, S (Juodkazis, Saulius)

Source: MATERIALS **Volume:** 15 **Issue:** 22 **Article Number:** 8063 **DOI:** 10.3390/ma15228063 **Published Date:** 2022 NOV

90 of 458

Title: Nanoscale Printing of Indium-Tin-Oxide by Femtosecond Laser Pulses

Author(s): Hu, JW (Hu, Jingwen); Li, ZZ (Li, Zhen-Ze); Zhao, YY (Zhao, Yang-Yang); Xu, YS (Xu, Yi-Shi); Wang, L (Wang, Lin); Han, ML (Han, Molong); Hyde, L (Hyde, Lachlan); Ng, SH (Ng, Soon Hock); Wang, L (Wang, Lei); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 12 **Issue:** 22 **Article Number:** 4092 **DOI:** 10.3390/nano12224092 **Published Date:** 2022 NOV

91 of 458

Title: Tissue Characterization Using Synchrotron Radiation at 0.7 THz to 10.0 THz with Extended ATR Apparatus Techniques

Author(s): Vilagosh, Z (Vilagosh, Zoltan); Appadoo, D (Appadoo, Dominique); Foroughimehr, N (Foroughimehr, Negin); Shams, R (Shams, Reza); Sly, D (Sly, David); Juodkazis, S (Juodkazis, Saulius); Ivanova, E (Ivanova, Elena); Wood, AW (Wood, Andrew W.)

Source: SENSORS **Volume:** 22 **Issue:** 21 **Article Number:** 8363 **DOI:** 10.3390/s22218363 **Published Date:** 2022 NOV

92 of 458

Title: Metasurfaces as Energy Valves for Sustainable Energy Management

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Kimura, S (Kimura, Syunya); Takeshima, Y (Takeshima, Yu); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 13 **Issue:** 10 **Article Number:** 1769 **DOI:** 10.3390/mi13101769 **Published Date:** 2022 OCT

93 of 458

Title: Porous macroradical epoxy-based supercapacitors

Author(s): Capricho, JC (Capricho, Jaworski C.); Subhani, K (Subhani, Karamat); Chai, BX (Chai, Boon Xian); Bryant, G (Bryant, Gary); Salim, N (Salim, Nisa); Juodkazis, S (Juodkazis, Saulius); Fox, BL (Fox, Bronwyn Louise); Hameed, N (Hameed, Nishar)

Source: POLYMER **Volume:** 259 **Article Number:** 125356 **DOI:** 10.1016/j.polymer.2022.125356 **Early Access Date:** SEP 2022 **Published Date:** 2022 OCT 27

94 of 458

Title: The Tunable Coupling between Metasurface and Molecular Vibration towards the Platform of Spectral Analysis

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius)

Source: BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN **Volume:** 95 **Issue:** 9 **Pages:** 1318-1324 **DOI:** 10.1246/bcsj.20220173 **Published Date:** 2022 SEP

95 of 458

Title: Control of Vibration-Metasurface Coupling at the Mid-Infrared Spectral Window for Inorganic Thermal Emitters

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius)

Source: BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN **Volume:** 95 **Issue:** 9 **Pages:** 1411-1418 **DOI:** 10.1246/bcsj.20220163 **Published Date:** 2022 SEP

96 of 458

Title: Deep Deconvolution of Object Information Modulated by a Refractive Lens Using Lucy-Richardson-Rosen Algorithm

Author(s): Praveen, PA (Praveen, P. A.); Arockiaraj, FG (Arockiaraj, Francis Gracy); Gopinath, S (Gopinath, Shivasubramanian); Smith, D (Smith, Daniel); Kahro, T (Kahro, Tauno); Valdma, SM (Valdma, Sandhra-Mirella); Bleahu, A (Bleahu, Andrei); Ng, SH (Ng, Soon Hock); Reddy, ANK (Reddy, Andra Naresh Kumar); Katkus, T (Katkus, Tomas); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Ganeev, RA (Ganeev, Rashid A.); Pikker, S (Pikker, Siim); Kukli, K (Kukli, Kaupo); Tamm, A (Tamm, Aile); Juodkazis, S (Juodkazis, Saulius); Anand, V (Anand, Vijayakumar)

Source: PHOTONICS **Volume:** 9 **Issue:** 9 **Article Number:** 625 **DOI:** 10.3390/photonics9090625 **Published Date:** 2022 SEP

97 of 458

Title: Femtosecond Laser Direct-Write Plasmonic Nanolithography in Dielectrics

Author(s): Zhu, H (Zhu, Han); Wu, B (Wu, Bo); Gao, MS (Gao, Mingsheng); Ren, F (Ren, Feng); Qin, W (Qin, Wei); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: SMALL SCIENCE **Volume:** 2 **Issue:** 9 **Article Number:** 2200038 **DOI:** 10.1002/smssc.202200038 **Early Access Date:** AUG 2022 **Published Date:** 2022 SEP

98 of 458

Title: THz Filters Made by Laser Ablation of Stainless Steel and Kapton Film

Author(s): Han, ML (Han, Molong); Smith, D (Smith, Daniel); Ng, S (Ng, Soon); Vilagosh, Z (Vilagosh, Zoltan); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Reklaitis, I (Reklaitis, Ignas); Mu, HR (Mu, Haoran); Ryu, M (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Vongsvivut, J (Vongsvivut, Jitraporn); Appadoo, D (Appadoo, Dominique); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 13 **Issue:** 8 **Article Number:** 1170 **DOI:** 10.3390/mi13081170 **Published Date:** 2022 AUG

99 of 458

Title: Polariscopy with optical near-fields

Author(s): Meguya, R (Meguya, Ryu); Ng, SH (Ng, Soon Hock); Han, ML (Han, Molong); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Vongsvivut, J (Vongsvivut, Jitraporn); Appadoo, D (Appadoo, Dominique); Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: NANOSCALE HORIZONS **Volume:** 7 **Issue:** 9 **Pages:** 1047-1053 **DOI:** 10.1039/d2nh00187j **Early Access Date:** JUL 2022 **Published Date:** 2022 AUG 22

100 of 458

Title: Lethal Interactions of Atomically Precise Gold Nanoclusters and *Pseudomonas aeruginosa* and *Staphylococcus aureus* Bacterial Cells

Author(s): Linklater, DP (Linklater, Denver P.); Le Guével, X (Le Guevel, Xavier); Bryant, G (Bryant, Gary); Baulin, VA (Baulin, Vladimir A.); Pereiro, E (Pereiro, Eva); Perera, PGT (Perera, Palalle G. Tharushi); Wandiyanto, JV (Wandiyanto, Jason, V); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: ACS APPLIED MATERIALS & INTERFACES **DOI:** 10.1021/acsami.2c04410 **Early Access Date:** JUN 2022 **Published Date:** 2022 JUN 27

101 of 458

Title: Site-Selective Au⁺ Electroreduction in Titania Nanotubes for Electrochemical and Plasmonic Applications

Author(s): Kowalska, E (Kowalska, Ewa); Juodkazis, S (Juodkazis, Saulius); Henkiel, P (Henkiel, Patrycja); Kowalski, D (Kowalski, Damian)

Source: ACS APPLIED NANO MATERIALS **Volume:** 5 **Issue:** 6 **Pages:** 7696-7703 **DOI:** 10.1021/acsanm.2c00044 **Published Date:** 2022 JUN 24

102 of 458

Title: Augmentation of surface plasmon-enhanced second harmonic generation from Au nanoprisms on SiO₂/Si: interference contribution

Author(s): Sugita, A (Sugita, Atsushi); Mochiduki, K (Mochiduki, Kanta); Katahira, Y (Katahira, Yuhki); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 30 **Issue:** 12 **Pages:** 22161-22177 **DOI:** 10.1364/OE.460118 **Published Date:** 2022 JUN 6

103 of 458

Title: TiO₂/Au/TiO₂ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation

Author(s): Wang, KL (Wang, Kunlei); Yoshiiri, K (Yoshiiri, Kenta); Rosa, L (Rosa, Lorenzo); Wei, ZS (Wei, Zhishun); Juodkazis, S (Juodkazis, Saulius); Ohtani, B (Ohtani, Bunsho); Kowalska, E (Kowalska, Ewa)

Source: CATALYSIS TODAY **Volume:** 397 **Special Issue:** SI **Pages:** 257-264 **DOI:** 10.1016/j.cattod.2021.09.023 **Early Access Date:** JUN 2022 **Published Date:** 2022 AUG 1

104 of 458

Title: Nonlinear Reconstruction of Images from Patterns Generated by Deterministic or Random Optical Masks-Concepts and Review of Research

Author(s): Smith, D (Smith, Daniel); Gopinath, S (Gopinath, Shivasubramanian); Arockiaraj, FG (Arockiaraj, Francis Gracy); Reddy, ANK (Reddy, Andra Naresh Kumar); Balasubramani, V (Balasubramani, Vinoth); Kumar, R (Kumar, Ravi); Dubey, N (Dubey, Nitin); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Selva, SJ (Selva, Shakina Jothi); Renganathan, D (Renganathan, Dhanalakshmi); Kamalam, MBR (Kamalam, Manueldoss Beaula Ruby); Rajeswary, ASJF (Rajeswary, Aravind Simon John Francis); Navaneethakrishnan, S (Navaneethakrishnan, Srinivasan); Inbanathan, SR (Inbanathan, Stephen Rajkumar); Valdma, SM (Valdma, Sandhra-Mirella); Praveen, PA (Praveen, Periyasamy Angamuthu); Amudhavel, J (Amudhavel, Jayavel); Kumar, M (Kumar, Manoj); Ganeev, RA (Ganeev, Rashid A.); Magistretti, PJ (Magistretti, Pierre J.); Depeursinge, C (Depeursinge, Christian); Juodkazis, S (Juodkazis, Saulius); Rosen, J (Rosen, Joseph); Anand, V (Anand, Vijayakumar)

Source: JOURNAL OF IMAGING **Volume:** 8 **Issue:** 6 **Article Number:** 174 **DOI:** 10.3390/jimaging8060174 **Published Date:** 2022 JUN

105 of 458

Title: Spatio-temporal control of THz emission

Author(s): Huang, HH (Huang, Hsin-hui); Juodkazis, S (Juodkazis, Saulius); Gamaly, EG (Gamaly, Eugene G.); Nagashima, T (Nagashima, Takeshi); Yonezawa, T (Yonezawa, Tetsu); Hatanaka, K (Hatanaka, Koji)

Source: COMMUNICATIONS PHYSICS **Volume:** 5 **Issue:** 1 **Article Number:** 134 **DOI:** 10.1038/s42005-022-00914-2 **Published Date:** 2022 MAY 31

106 of 458

Title: Ultra-Sensitive Photo-Induced Hydrogen Gas Sensor Based on Two-Dimensional CeO₂-Pd-PDA/rGO Heterojunction Nanocomposite

Author(s): Hashtroudi, H (Hashtroudi, Hanie); Yu, AM (Yu, Aimin); Juodkazis, S (Juodkazis, Saulius); Shafiei, M (Shafiei, Mahnaz)

Source: NANOMATERIALS **Volume:** 12 **Issue:** 10 **Article Number:** 1628 **DOI:** 10.3390/nano12101628 **Published Date:** 2022 MAY

107 of 458

Title: Free-Form Micro-Optics Out of Crystals: Femtosecond Laser 3D Sculpturing

Author(s): Hua, JG (Hua, Jian-Guan); Liang, SY (Liang, Shu-Yu); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: ADVANCED FUNCTIONAL MATERIALS **Volume:** 32 **Issue:** 26 **Article Number:** 2200255 **DOI:** 10.1002/adfm.202200255 **Early Access Date:** MAR 2022 **Published Date:** 2022 JUN

108 of 458

Title: Three-Dimensional Incoherent Imaging Using Spiral Rotating Point Spread Functions Created by Double-Helix Beams [Invited]

Author(s): Anand, V (Anand, Vijayakumar); Khonina, S (Khonina, Svetlana); Kumar, R (Kumar, Ravi); Dubey, N (Dubey, Nitin); Reddy, ANK (Reddy, Andra Naresh Kumar); Rosen, J (Rosen, Joseph); Juodkazis, S (Juodkazis, Saulius)

Source: NANOSCALE RESEARCH LETTERS **Volume:** 17 **Issue:** 1 **Article Number:** 37 **DOI:** 10.1186/s11671-022-03676-6 **Published Date:** 2022 MAR 24

109 of 458

Title: Anisotropic 3D columnar micro-film coating for applications in infrared and visible spectral ranges

Author(s): Hu, JW (Hu, Jingwen); Han, ML (Han, Molong); Grineviciute, L (Grineviciute, Lina); Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Ryu, MY (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Tolenis, T (Tolenis, Tomas); Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 590 **Article Number:** 152910 **DOI:** 10.1016/j.apsusc.2022.152910 **Early Access Date:** MAR 2022 **Published Date:** 2022 JUL 15

110 of 458

Title: Single-shot mid-infrared incoherent holography using Lucy-Richardson-Rosen algorithm

Author(s): Anand, V (Anand, Vijayakumar); Han, ML (Han, Molong); Maksimovic, J (Maksimovic, Jovan); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Klein, A (Klein, Annaleise); Bambery, K (Bambery, Keith); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Juodkazis, S (Juodkazis, Saulius)

Source: OPTO-ELECTRONIC SCIENCE **Volume:** 1 **Issue:** 3 **Article Number:** 210006 **DOI:** 10.29026/oes.2022.210006 **Published Date:** 2022 MAR

111 of 458

Title: Optical anisotropy of glancing angle deposited thin films on nano-patterned substrates

Author(s): Grineviciute, L (Grineviciute, Lina); Moein, T (Moein, Tania); Han, ML (Han, Molong); Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Ryu, M (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Tobin, MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Tolenis, T (Tolenis, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 12 **Issue:** 3 **Pages:** 1281-1290 **DOI:** 10.1364/OME.451669 **Published Date:** 2022 MAR 1

112 of 458

Title: Roadmap on chaos-inspired imaging technologies (CI²-Tech)

Author(s): Rosen, J (Rosen, Joseph); de Aguiar, HB (de Aguiar, Hilton B.); Anand, V (Anand, Vijayakumar); Baek, Y (Baek, YoonSeok); Gigan, S (Gigan, Sylvain); Horisaki, R (Horisaki, Ryoichi); Hugonnet, H (Hugonnet, Herve); Juodkazis, S (Juodkazis, Saulius); Lee, K (Lee, KyeoReh); Liang, HW (Liang, Haowen); Liu, YK (Liu, Yikun); Ludwig, S (Ludwig, Stephan); Osten, W (Osten, Wolfgang); Park, Y (Park, YongKeun); Pedrini, G (Pedrini, Giancarlo); Sarkar, T (Sarkar, Tushar); Schindler, J (Schindler, Johannes); Singh, AK (Singh, Alok Kumar); Singh, RK (Singh, Rakesh Kumar); Situ, G (Situ, Guohai); Takeda, M (Takeda, Mitsuo); Xie, XS (Xie, Xiangsheng); Yang, WQ (Yang, Wanqin); Zhou, JY (Zhou, Jianying)

Source: APPLIED PHYSICS B-LASERS AND OPTICS **Volume:** 128 **Issue:** 3 **Article Number:** 49 **DOI:** 10.1007/s00340-021-07729-z **Published Date:** 2022 MAR

113 of 458

Title: Magnetic field induced alignment of macroradical epoxy for enhanced electrical properties

Author(s): Al-Qatatsheh, A (Al-Qatatsheh, Ahmed); Capricho, JC (Capricho, Jaworski C.); Vongsvivut, J (Vongsvivut, Jitraporn (Pimm)); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Hameed, N (Hameed, Nishar)

Source: SOFT MATTER **Volume:** 18 **Issue:** 28 **Pages:** 5194-5203 **DOI:** 10.1039/d1sm01731d **Early Access Date:** FEB 2022 **Published Date:** 2022 JUL 20

114 of 458

Title: Two-Dimensional Dy₂O₃-Pd-PDA/rGO Heterojunction Nanocomposite: Synergistic Effects of Hybridisation, UV Illumination and Relative Humidity on Hydrogen Gas Sensing

Author(s): Hashtroudi, H (Hashtroudi, Hanie); Yu, AM (Yu, Aimin); Juodkazis, S (Juodkazis, Saulius); Shafiei, M (Shafiei, Mahnaz)

Source: CHEMOSENSORS **Volume:** 10 **Issue:** 2 **Article Number:** 78 **DOI:** 10.3390/chemosensors10020078 **Published Date:** 2022 FEB

115 of 458

Title: Absorption and scattering in perfect thermal radiation absorber-emitter metasurfaces

Author(s): Nishijima, Y (Nishijima, Yoshiaki); To, N (To, Naoki); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius)

116 of 458

Title: Fluorescence Colour Control in Perylene-Labeled Polymer Chains Trapped by Nanotextured Silicon

Author(s): Takao, R (Takao, Ryota); Ushiro, K (Ushiro, Kenta); Kusano, H (Kusano, Hazuki); Yuyama, K (Yuyama, Ken-ichi); Shoji, T (Shoji, Tatsuya); Linklater, DP (Linklater, Denver P.); Ivanova, E (Ivanova, Elena); Juodkazis, S (Juodkazis, Saulius); Tsuboi, Y (Tsuboi, Yasuyuki)

Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION **Volume:** 61 **Issue:** 11 **Article Number:** e202117227 **DOI:** 10.1002/anie.202117227 **Early Access Date:** JAN 2022 **Published Date:** 2022 MAR 7

117 of 458

Title: Biomimetic sapphire windows enabled by inside-out femtosecond laser deep-scribing

Author(s): Liu, XQ (Liu, Xue-Qing); Zhang, YL (Zhang, Yong-Lai); Li, QK (Li, Qian-Kun); Zheng, JX (Zheng, Jia-Xin); Lu, YM (Lu, Yi-Ming); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai); Sun, HB (Sun, Hong-Bo)

Source: PHOTONIX **Volume:** 3 **Issue:** 1 **Article Number:** 1 **DOI:** 10.1186/s43074-022-00047-3 **Published Date:** 2022 JAN 21

118 of 458

Title: Programmed Death of Injured *Pseudomonas aeruginosa* on Mechano-Bactericidal Surfaces

Author(s): Zhao, S (Zhao, Shuo); Li, ZY (Li, Zheyu); Linklater, DP (Linklater, Denver P.); Han, L (Han, Lin); Jin, P (Jin, Peng); Wen, LP (Wen, Liping); Chen, C (Chen, Chuan); Xing, DF (Xing, Defeng); Ren, NQ (Ren, Nanqi); Sun, K (Sun, Kai); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.); Jiang, L (Jiang, Lei)

Source: NANO LETTERS **Volume:** 22 **Issue:** 3 **Pages:** 1129-1137 **DOI:** 10.1021/acs.nanolett.1c04243 **Early Access Date:** JAN 2022 **Published Date:** 2022 FEB 9

119 of 458

Title: Review of engineering techniques in chaotic coded aperture imagers

Author(s): Anand, V (Anand, Vijayakumar); Rosen, J (Rosen, Joseph); Juodkazis, S (Juodkazis, Saulius)

Source: LIGHT-ADVANCED MANUFACTURING **Volume:** 3 **Issue:** 4 **Article Number:** 24 **DOI:** 10.37188/lam.2022.024 **Published Date:** 2022

120 of 458

Title: Variable focus convex microlens array on K9 glass substrate based on femtosecond laser processing and hot embossing lithography

Author(s): Chen, ZH (Chen, Zhihao); Yuan, HB (Yuan, Hongbing); Wu, PC (Wu, Peichao); Zhang, WW (Zhang, Wenwu); Juodkazis, S (Juodkazis, Saulius); Huang, HB (Huang, Haibo); Cao, XW (Cao, Xiaowen)

Source: OPTICS LETTERS **Volume:** 47 **Issue:** 1 **Pages:** 22-25 **DOI:** 10.1364/OL.448344 **Published Date:** 2022 JAN 1

121 of 458

Title: Beyond Lambertian light trapping for large-area silicon solar cells: fabrication methods

Author(s): Maksimovic, J (Maksimovic, Jovan); Hu, JW (Hu, Jingwen); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Seniutinas, G (Seniutinas, Gediminas); Rivera, TP (Rivera, Tatiana Pinedo); Stuiber, M (Stuiber, Michael); Nishijima, Y (Nishijima, Yoshiaki); John, S (John, Sajeev); Juodkazis, S (Juodkazis, Saulius)

Source: OPTO-ELECTRONIC ADVANCES **Volume:** 5 **Issue:** 9 **Article Number:** 210086 **DOI:** 10.29026/oea.2022.210086 **Published Date:** 2022

122 of 458

Title: Coupling of molecular vibration and metasurface modes for efficient mid-infrared emission

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Morimoto, S (Morimoto, Shinya); Balcytis, A (Balcytis, Armandas); Hashizume, T (Hashizume, Tomoki); Matsubara, R (Matsubara, Ryosuke); Kubono, A (Kubono, Atsushi); To, N (To, Naoki); Ryu, M (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF MATERIALS CHEMISTRY C **Volume:** 10 **Issue:** 2 **DOI:** 10.1039/d1tc04519a **Early Access Date:** DEC 2021 **Published Date:** 2022 JAN 7

123 of 458

Title: Roadmap on Digital Holography-Based Quantitative Phase Imaging

Author(s): Balasubramani, V (Balasubramani, Vinoth); Kujawinska, M (Kujawinska, Malgorzata); Allier, C (Allier, Cedric); Anand, V (Anand, Vijayakumar); Cheng, CJ (Cheng, Chau-Jern); Depeursinge, C (Depeursinge, Christian); Hai, N (Hai, Nathaniel); Juodkazis, S (Juodkazis, Saulius); Kalkman, J (Kalkman, Jeroen); Kus, A (Kus, Arkadiusz); Lee, M (Lee, Moosung); Magistretti, PJ (Magistretti, Pierre J.); Marquet, P (Marquet, Pierre); Ng, SH (Ng, Soon Hock); Rosen, J (Rosen, Joseph); Park, YK (Park, Yong Keun); Ziemczonok, M (Ziemczonok, Michal)

Source: JOURNAL OF IMAGING **Volume:** 7 **Issue:** 12 **Article Number:** 252 **DOI:** 10.3390/jimaging7120252 **Published Date:** 2021 DEC

124 of 458

Title: Laser 3D Printing of Inorganic Free-Form Micro-Optics

Author(s): Gonzalez-Hernandez, D (Gonzalez-Hernandez, Diana); Varapnickas, S (Varapnickas, Simonas); Merkininkaite, G (Merkininkaite, Greta); Cibury, A (Cibury, Arunas); Gailevicius, D (Gailevicius, Darius); Sakirzanovas, S (Sakirzanovas, Simas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: PHOTONICS **Volume:** 8 **Issue:** 12 **Article Number:** 577 **DOI:** 10.3390/photonics8120577 **Published Date:** 2021 DEC

125 of 458

Title: Anisotropy of 3D Columnar Coatings in Mid-Infrared Spectral Range

Author(s): Grineviciute, L (Grineviciute, Lina); Ng, SH (Ng, Soon Hock); Han, ML (Han, Molong); Moein, T (Moein, Tania); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Ryu, M (Ryu, Meguya); Morikawa, J (Morikawa, Junko); Tobin,

MJ (Tobin, Mark J.); Vongsvivut, J (Vongsvivut, Jitraporn); Tolenis, T (Tolenis, Tomas); Juodkasis, S (Juodkasis, Saulius)

Source: NANOMATERIALS **Volume:** 11 **Issue:** 12 **Article Number:** 3247 **DOI:** 10.3390/nano11123247 **Published Date:** 2021 DEC

126 of 458

Title: Deep Subwavelength Laser-Induced Periodic Surface Structures on Silicon as a Novel Multifunctional Biosensing Platform

Author(s): Borodaenko, Y (Borodaenko, Yulia); Syubaev, S (Syubaev, Sergey); Gurbatov, S (Gurbatov, Stanislav); Zhizhchenko, A (Zhizhchenko, Alexey); Porfirev, A (Porfirev, Aleksey); Khonina, S (Khonina, Svetlana); Mitsai, E (Mitsai, Eugeny); Gerasimenko, A (Gerasimenko, Andrey, V); Shevlyagin, A (Shevlyagin, Alexander); Modin, E (Modin, Evgeny); Juodkasis, S (Juodkasis, Saulius); Gurevich, EL (Gurevich, Evgeny L.); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 13 **Issue:** 45 **Pages:** 54551-54560 **DOI:** 10.1021/acsami.1c16249 **Early Access Date:** NOV 2021 **Published Date:** 2021 NOV 17

127 of 458

Title: Imaging with diffractive axicons rapidly milled on sapphire by femtosecond laser ablation

Author(s): Smith, D (Smith, Daniel); Ng, SH (Ng, Soon Hock); Han, ML (Han, Molong); Katkus, T (Katkus, Tomas); Anand, V (Anand, Vijayakumar); Glazebrook, K (Glazebrook, Karl); Juodkasis, S (Juodkasis, Saulius)

Source: APPLIED PHYSICS B-LASERS AND OPTICS **Volume:** 127 **Issue:** 11 **Article Number:** 154 **DOI:** 10.1007/s00340-021-07701-x **Published Date:** 2021 NOV

128 of 458

Title: Roadmap on Recent Progress in FINCH Technology

Author(s): Rosen, J (Rosen, Joseph); Alford, S (Alford, Simon); Anand, V (Anand, Vijayakumar); Art, J (Art, Jonathan); Bouchal, P (Bouchal, Petr); Bouchal, Z (Bouchal, Zdenek); Erdenebat, MU (Erdenebat, Munkh-Uchral); Huang, LL (Huang, Lingling); Ishii, A (Ishii, Ayumi); Juodkasis, S (Juodkasis, Saulius); Kim, N (Kim, Nam); Kner, P (Kner, Peter); Koujin, T (Koujin, Takako); Kozawa, Y (Kozawa, Yuichi); Liang, D (Liang, Dong); Liu, J (Liu, Jun); Mann, C (Mann, Christopher); Marar, A (Marar, Abhijit); Matsuda, A (Matsuda, Atsushi); Nobukawa, T (Nobukawa, Teruyoshi); Nomura, T (Nomura, Takanori); Oi, R (Oi, Ryutaro); Potcoava, M (Potcoava, Mariana); Tahara, T (Tahara, Tatsuki); Thanh, BL (Bang Le Thanh); Zhou, HQ (Zhou, Hongqiang)

Source: JOURNAL OF IMAGING **Volume:** 7 **Issue:** 10 **Article Number:** 197 **DOI:** 10.3390/jimaging7100197 **Published Date:** 2021 OCT

129 of 458

Title: Distribution states of graphene in polymer nanocomposites: A review

Author(s): Govindaraj, P (Govindaraj, Premika); Sokolova, A (Sokolova, Anna); Salim, N (Salim, Nisa); Juodkasis, S (Juodkasis, Saulius); Fuss, FK (Fuss, Franz Konstantin); Fox, B (Fox, Bronwyn); Hameed, N (Hameed, Nishar)

Source: COMPOSITES PART B-ENGINEERING **Volume:** 226 **Article Number:** 109353 **DOI:** 10.1016/j.compositesb.2021.109353 **Early Access Date:** SEP 2021 **Published Date:** 2021 DEC 1

130 of 458

Title: Exploiting spatio-spectral aberrations for rapid synchrotron infrared imaging

Author(s): Anand, V (Anand, Vijayakumar); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Maksimovic, J (Maksimovic, Jovan); Klein, AR (Klein, Annaleise R.); Vongsvivut, J (Vongsvivut, Jitraporn); Bambery, KR (Bambery, Keith R.); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF SYNCHROTRON RADIATION **Volume:** 28 **Pages:** 1616-1619 **DOI:** 10.1107/S1600577521007104 **Published Date:** 2021 SEP **Part:** 5

131 of 458

Title: Atoms vs. Ions: Intermediates in Reversible Electrochemical Hydrogen Evolution Reaction

Author(s): Juodkazyte, J (Juodkazyte, Jurga); Juodkazis, K (Juodkazis, Kestutis); Juodkazis, S (Juodkazis, Saulius)

Source: CATALYSTS **Volume:** 11 **Issue:** 9 **Article Number:** 1135 **DOI:** 10.3390/catal11091135 **Published Date:** 2021 SEP

132 of 458

Title: Attenuated Total Reflection at THz Wavelengths: Prospective Use of Total Internal Reflection and Polariscopy

Author(s): Ryu, M (Ryu, Meguya); Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Lundgaard, S (Lundgaard, Stefan); Hu, JW (Hu, Jingwen); Katkus, T (Katkus, Tomas); Appadoo, D (Appadoo, Dominique); Vilagosh, Z (Vilagosh, Zoltan); Wood, AW (Wood, Andrew W.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 16 **Article Number:** 7632 **DOI:** 10.3390/app11167632 **Published Date:** 2021 AUG

133 of 458

Title: Macroradical enables electrical conduction in epoxy thermoset

Author(s): Capricho, JC (Capricho, Jaworski C.); Saubern, S (Saubern, Simon); Best, SP (Best, Stephen P.); Maksimovic, J (Maksimovic, Jovan); Gupta, A (Gupta, Akhil); Juodkazis, S (Juodkazis, Saulius); Fox, BL (Fox, Bronwyn Louise); Hameed, N (Hameed, Nishar)

Source: POLYMER **Volume:** 230 **Article Number:** 124046 **DOI:** 10.1016/j.polymer.2021.124046 **Early Access Date:** JUL 2021 **Published Date:** 2021 SEP 16

134 of 458

Title: Three-dimensional non-destructive visualization of teeth enamel microcracks using X-ray micro-computed tomography

Author(s): Dumbryte, I (Dumbryte, Irma); Vailionis, A (Vailionis, Arturas); Skliutas, E (Skliutas, Edvinas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 14810 **DOI:** 10.1038/s41598-021-94303-4 **Published Date:** 2021 JUL 20

135 of 458

Title: Plasmomechanical Systems: Principles and Applications

Author(s): Koya, AN (Koya, Alemayehu Nana); Cunha, J (Cunha, Joao); Guerrero-Becerra, KA (Guerrero-Becerra, Karina Andrea); Garoli, D (Garoli, Denis); Wang, T (Wang, Tao); Juodkazis, S (Juodkazis, Saulius); Zaccaria, RP (Zaccaria, Remo Proietti)

Source: ADVANCED FUNCTIONAL MATERIALS **Volume:** 31 **Issue:** 41 **Article Number:** 2103706 **DOI:** 10.1002/adfm.202103706 **Early Access Date:** JUL 2021 **Published Date:** 2021 OCT

136 of 458

Title: Antifungal versus antibacterial defence of insect wings

Author(s): Ivanova, EP (Ivanova, Elena P.); Linklater, DP (Linklater, Denver P.); Aburto-Medina, A (Aburto-Medina, Arturo); Le, P (Phuc Le); Baulin, VA (Baulin, Vladimir A.); Nguyen, HKD (Huu Khuong Duy Nguyen); Curtain, R (Curtain, Roger); Hanssen, E (Hanssen, Eric); Gervinskas, G (Gervinskas, Gediminas); Ng, SH (Ng, Soon Hock); Truong, VK (Vi Khanh Truong); Luque, P (Luque, Pere); Ramm, G (Ramm, Georg); Wösten, HAB (Wosten, Han A. B.); Crawford, RJ (Crawford, Russell J.); Juodkazis, S (Juodkazis, Saulius); Maclaughlin, S (Maclaughlin, Shane)

Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 603 **Pages:** 886-897 **DOI:** 10.1016/j.jcis.2021.06.093 **Early Access Date:** JUL 2021 **Published Date:** 2021 DEC

137 of 458

Title: Spectral Shaping Based on Coupled Sagnac Loop Reflectors Formed by a Self-Coupled Wire Waveguide

Author(s): Arianfard, H (Arianfard, Hamed); Wu, JY (Wu, Jiayang); Juodkazis, S (Juodkazis, Saulius); Moss, DJ (Moss, David J.)

Source: IEEE PHOTONICS TECHNOLOGY LETTERS **Volume:** 33 **Issue:** 13 **Pages:** 680-683 **DOI:** 10.1109/LPT.2021.3088089 **Published Date:** 2021 JUL 1

138 of 458

Title: Spectroscopy of excised skin patches exposed to THz and far-IR radiation

Author(s): Lajevardipour, A (Lajevardipour, Alireza); Vilagosh, Z (Vilagosh, Zoltan); Appadoo, D (Appadoo, Dominique); Davis, J (Davis, Jeffrey); Juodkazis, S (Juodkazis, Saulius); Wood, A (Wood, Andrew)

Source: BIOMEDICAL OPTICS EXPRESS **Volume:** 12 **Issue:** 7 **Pages:** 4610-4626 **DOI:** 10.1364/BOE.424267 **Published Date:** 2021 JUL 1

139 of 458

Title: Invasive and Non-Invasive Observation of Occluded Fast Transient Events: Computational Tools

Author(s): Ng, SH (Ng, Soon Hock); Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: PHOTONICS **Volume:** 8 **Issue:** 7 **Article Number:** 253 **DOI:** 10.3390/photronics8070253 **Published Date:** 2021 JUL

140 of 458

Title: Incoherent Optical Tweezers on Black Titanium

Author(s): Hashimoto, S (Hashimoto, Sayaka); Uenobo, Y (Uenobo, Yuki); Takao, R (Takao, Ryota); Yuyama, K (Yuyama, Ken-ichi); Shoji, T (Shoji, Tatsuya); Linklater, DP (Linklater, Denver P.); Ivanova, E (Ivanova, Elena); Juodkazis, S (Juodkazis, Saulius); Kameyama, T (Kameyama, Tatsuya); Torimoto, T (Torimoto, Tsukasa); Tsuboi, Y (Tsuboi, Yasuyuki)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 13 **Issue:** 23 **Pages:** 27586-27593 **DOI:** 10.1021/acsami.1c04929 **Early Access Date:** JUN 2021 **Published Date:** 2021 JUN 16

141 of 458

Title: Edge and Contrast Enhancement Using Spatially Incoherent Correlation Holography Techniques

Author(s): Anand, V (Anand, Vijayakumar); Rosen, J (Rosen, Joseph); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: PHOTONICS **Volume:** 8 **Issue:** 6 **Article Number:** 224 **DOI:** 10.3390/photonics8060224 **Published Date:** 2021 JUN

142 of 458

Title: Three Waveguide Coupled Sagnac Loop Reflectors for Advanced Spectral Engineering

Author(s): Arianfard, H (Arianfard, Hamed); Wu, JY (Wu, Jiayang); Juodkazis, S (Juodkazis, Saulius); Moss, D (Moss, David)

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY **Volume:** 39 **Issue:** 11 **Pages:** 3478-3487 **DOI:** 10.1109/JLT.2021.3066256 **Published Date:** 2021 JUN 1

143 of 458

Title: Electrical Breakdown Spectroscopy of Nano-/Micro-Thermites

Author(s): Lundgaard, S (Lundgaard, Stefan); Ng, SH (Ng, Soon Hock); Cahill, D (Cahill, Damien); Dahlberg, J (Dahlberg, Johan); Allender, J (Allender, Jamie); Barber, M (Barber, Michael); Stephens, J (Stephens, Joshua); Juodkazis, S (Juodkazis, Saulius)

Source: TECHNOLOGIES **Volume:** 9 **Issue:** 2 **Article Number:** 34 **DOI:** 10.3390/technologies9020034 **Published Date:** 2021 JUN

144 of 458

Title: Birefringent optical retarders from laser 3D-printed dielectric metasurfaces (vol 118, 151104, 2021)

Author(s): Varapnickas, S (Varapnickas, Simonas); Thodika, SC (Thodika, Samlan Chandran); Moroté, F (Morote, Fabien); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas); Brasselet, E (Brasselet, Etienne)

Source: APPLIED PHYSICS LETTERS **Volume:** 118 **Issue:** 21 **Article Number:** 219903 **DOI:** 10.1063/5.0054884 **Published Date:** 2021 MAY 24

145 of 458

Title: Spectral optical vortex modulation from geometric phase diamond metasurface arrays

Author(s): Ghadimi Nassiri, M (Nassiri, Mikael Ghadimi); Seniutinas, G (Seniutinas, Gediminas); David, C (David, Christian); Juodkazis, S (Juodkazis, Saulius); Brasselet, E (Brasselet, Etienne)

Source: APPLIED PHYSICS LETTERS **Volume:** 118 **Issue:** 20 **Article Number:** 201104 **DOI:** 10.1063/5.0048999 **Published Date:** 2021 MAY 17

146 of 458

Title: White light three-dimensional imaging using a quasi-random lens

Author(s): Anand, V (Anand, Vijayakumar); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 29 **Issue:** 10 **Pages:** 15551-15563 **DOI:** 10.1364/OE.426021 **Published Date:** 2021 MAY 10

147 of 458

Title: Vector scanning subtractive manufacturing technology for laser rapid fabrication

Author(s): Lu, YM (Lu, Yi-Ming); Liu, XQ (Liu, Xue-Qing); Zhu, L (Zhu, Lin); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 46 **Issue:** 8 **Pages:** 1963-1966 **DOI:** 10.1364/OL.422455 **Published Date:** 2021 APR 15

148 of 458

Title: Birefringent optical retarders from laser 3D-printed dielectric metasurfaces

Author(s): Varapnickas, S (Varapnickas, Simonas); Thodika, SC (Thodika, Samlan Chandran); Moroté, F (Morote, Fabien); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas); Brasselet, E (Brasselet, Etienne)

Source: APPLIED PHYSICS LETTERS **Volume:** 118 **Issue:** 15 **Article Number:** 151104 **DOI:** 10.1063/5.0046978 **Published Date:** 2021 APR 12

149 of 458

Title: Quantifying end-face quality of cleaved fibers: Femtosecond laser versus mechanical scribing

Author(s): Al Mamun, MA (Al Mamun, Md Abdullah); Cadusch, PJ (Cadusch, Peter J.); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius); Stoddart, PR (Stoddart, Paul R.)

Source: OPTICS AND LASER TECHNOLOGY **Volume:** 141 **Article Number:** 107111 **DOI:** 10.1016/j.optlastec.2021.107111 **Early Access Date:** APR 2021 **Published Date:** 2021 SEP

150 of 458

Title: Polymerization mechanisms initiated by spatio-temporally confined light

Author(s): Skliutas, E (Skliutas, Edvinas); Lebedevaite, M (Lebedevaite, Migle); Kabouraki, E (Kabouraki, Elmina); Baldacchini, T (Baldacchini, Tommaso); Ostrauskaite, J (Ostrauskaite, Jolita); Vamvakaki, M (Vamvakaki, Maria); Farsari, M (Farsari, Maria); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: NANOPHOTONICS **Volume:** 10 **Issue:** 4 **Pages:** 1211-1242 **DOI:** 10.1515/nanoph-2020-0551 **Published Date:** 2021 APR

151 of 458

Title: Advanced Multi-Functional Integrated Photonic Filters Based on Coupled Sagnac Loop Reflectors

Author(s): Arianfard, H (Arianfard, Hamed); Wu, JY (Wu, Jiayang); Juodkazis, S (Juodkazis, Saulius); Moss, DJ (Moss, David J.)

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY **Volume:** 39 **Issue:** 5 **Pages:** 1400-1408 **DOI:** 10.1109/JLT.2020.3037559 **Published Date:** 2021 MAR 1

152 of 458

Title: Using Attenuated Total Reflection (ATR) Apparatus to Investigate the Temperature Dependent Dielectric Properties of Water, Ice, and Tissue-Representative Fats

Author(s): Vilagosh, Z (Vilagosh, Zoltan); Lajevardipour, A (Lajevardipour, Alireza); Appadoo, D (Appadoo, Dominique); Juodkazis, S (Juodkazis, Saulius); Wood, AW (Wood, Andrew W.)

Source: APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 6 **Article Number:** 2544 **DOI:** 10.3390/app11062544 **Published Date:** 2021 MAR

153 of 458

Title: Analyte Co-localization at Electromagnetic Gap Hot-Spots for Highly Sensitive (Bio)molecular Detection by Plasmon Enhanced Spectroscopies

Author(s): Rastogi, R (Rastogi, Rishabh); Arianfard, H (Arianfard, Hamed); Moss, D (Moss, David); Juodkazis, S (Juodkazis, Saulius); Adam, PM (Adam, Pierre-Michel); Krishnamoorthy, S (Krishnamoorthy, Sivashankar)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 13 **Issue:** 7 **Pages:** 9113-9121 **DOI:** 10.1021/acsami.0c17929 **Early Access Date:** FEB 2021 **Published Date:** 2021 FEB 24

154 of 458

Title: Review of Fresnel incoherent correlation holography with linear and non-linear correlations

Author(s): Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: CHINESE OPTICS LETTERS **Volume:** 19 **Issue:** 2 **Article Number:** 020501 **DOI:** 10.3788/COL202119.020501 **Published Date:** 2021 FEB 10

155 of 458

Title: Spatio-Spectral-Temporal Imaging of Fast Transient Phenomena Using a Random Array of Pinholes

Author(s): Anand, V (Anand, Vijayakumar); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED PHOTONICS RESEARCH **Volume:** 2 **Issue:** 2 **Article Number:** 2000032 **DOI:** 10.1002/adpr.202000032 **Published Date:** 2021 FEB

156 of 458

Title: Hyperspectral Molecular Orientation Mapping in Metamaterials

Author(s): Ryu, M (Ryu, Meguya); Nishijima, Y (Nishijima, Yoshiaki); Morimoto, S (Morimoto, Shinya); To, N (To, Naoki); Hashizume, T (Hashizume, Tomoki); Matsubara, R (Matsubara, Ryosuke); Kubono, A (Kubono, Atsushi); Hu, JW (Hu,

Jingwen); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 4 **Article Number:** 1544 **DOI:** 10.3390/app11041544 **Published Date:** 2021 FEB

157 of 458

Title: Color Centers Enabled by Direct Femto-Second Laser Writing in Wide Bandgap Semiconductors

Author(s): Castelletto, S (Castelletto, Stefania); Maksimovic, J (Maksimovic, Jovan); Katkus, T (Katkus, Tomas); Ohshima, T (Ohshima, Takeshi); Johnson, BC (Johnson, Brett C.); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 11 **Issue:** 1 **Article Number:** 72 **DOI:** 10.3390/nano11010072 **Published Date:** 2021 JAN

158 of 458

Title: Robust Demultiplexing of Distinct Orbital Angular Momentum Infrared Vortex Beams Into Different Spatial Geometry Over a Broad Spectral Range

Author(s): Reddy, ANK (Reddy, Andra Naresh Kumar); Anand, V (Anand, Vijayakumar); Khonina, SN (Khonina, Svetlana Nikolaevna); Podlipnov, VV (Podlipnov, Vladimir V.); Juodkazis, S (Juodkazis, Saulius)

Source: IEEE ACCESS **Volume:** 9 **Pages:** 143341-143348 **DOI:** 10.1109/ACCESS.2021.3120836 **Published Date:** 2021

159 of 458

Title: Pulsed laser deposition of Pt-WO₃ of hydrogen sensors under atmospheric conditions

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Enomonoto, K (Enomonoto, Kenya); Okazaki, S (Okazaki, Shinji); Arakawa, T (Arakawa, Taro); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 534 **Article Number:** 147568 **DOI:** 10.1016/j.apsusc.2020.147568 **Published Date:** 2020 DEC 30

160 of 458

Title: Laser Printing of Plasmonic Nanosponges

Author(s): Syubaev, S (Syubaev, Sergey); Gurbatov, S (Gurbatov, Stanislav); Modin, E (Modin, Evgeny); Linklater, DP (Linklater, Denver P.); Juodkazis, S (Juodkazis, Saulius); Gurevich, EL (Gurevich, Evgeny L.); Kuchmizhak, A (Kuchmizhak, Aleksandr)

Source: NANOMATERIALS **Volume:** 10 **Issue:** 12 **Article Number:** 2427 **DOI:** 10.3390/nano10122427 **Published Date:** 2020 DEC

161 of 458

Title: Characterisation of Biological Materials at THz Frequencies by Attenuated Total Reflection: Lard

Author(s): Vilagosh, Z (Vilagosh, Zoltan); Lajevardipour, A (Lajevardipour, Alireza); Appadoo, D (Appadoo, Dominique); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Wood, AW (Wood, Andrew W.)

Source: APPLIED SCIENCES-BASEL **Volume:** 10 **Issue:** 23 **Article Number:** 8692 **DOI:** 10.3390/app10238692 **Published Date:** 2020 DEC

162 of 458

Title: Plasmon-induced photoluminescence and Raman enhancement in Pr:CaF₂ crystal by embedded silver nanoparticles

Author(s): Nie, WJ (Nie, Weijie); Jiang, S (Jiang, Shan); Li, R (Li, Rang); Ren, F (Ren, Feng); Clayton, AHA (Clayton, Andrew H. A.); Juodkazis, S (Juodkazis, Saulius); Chen, F (Chen, Feng)

Source: APPLIED SURFACE SCIENCE **Volume:** 530 **Article Number:** 147018 **DOI:** 10.1016/j.apsusc.2020.147018 **Published Date:** 2020 NOV 15

163 of 458

Title: Antibacterial Action of Nanoparticles by Lethal Stretching of Bacterial Cell Membranes

Author(s): Linklater, DP (Linklater, Denver P.); Baulin, VA (Baulin, Vladimir A.); Le Guével, X (Le Guevel, Xavier); Fleury, JB (Fleury, Jean-Baptiste); Hanssen, E (Hanssen, Eric); Nguyen, THP (Nguyen, The Hong Phong); Juodkazis, S (Juodkazis, Saulius); Bryant, G (Bryant, Gary); Crawford, RJ (Crawford, Russell J.); Stoodley, P (Stoodley, Paul); Ivanova, EP (Ivanova, Elena P.)

Source: ADVANCED MATERIALS **Volume:** 32 **Issue:** 52 **Article Number:** 2005679 **DOI:** 10.1002/adma.202005679 **Early Access Date:** NOV 2020 **Published Date:** 2020 DEC

164 of 458

Title: Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles

Author(s): Manikandan, V (Manikandan, V); Mirzaei, A (Mirzaei, Ali); Petrila, I (Petrila, Iulian); Kavita, S (Kavita, S.); Mane, RS (Mane, R. S.); Denardin, JC (Denardin, Juliano C.); Lundgaard, S (Lundgaard, Stefan); Juodkazis, S (Juodkazis, Saulius); Chandrasekaran, J (Chandrasekaran, J.); Vigneselman, S (Vigneselman, S.)

Source: MATERIALS CHEMISTRY AND PHYSICS **Volume:** 254 **Article Number:** 123572 **DOI:** 10.1016/j.matchemphys.2020.123572 **Published Date:** 2020 NOV 1

165 of 458

Title: Black silicon as a highly efficient photo-thermal converter for snow/ice melting in early spring agriculture

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Nishijima, H (Nishijima, Hiroyoshi); Juodkazis, S (Juodkazis, Saulius)

Source: SOLAR ENERGY MATERIALS AND SOLAR CELLS **Volume:** 217 **Article Number:** 110706 **DOI:** 10.1016/j.solmat.2020.110706 **Published Date:** 2020 NOV

166 of 458

Title: Mechano-Bactericidal Titanium Surfaces for Bone Tissue Engineering

Author(s): Le Clainche, T (Le Clainche, Tristan); Linklater, D (Linklater, Denver); Wong, S (Wong, Sherman); Le, P (Phuc Le); Juodkazis, S (Juodkazis, Saulius); Le Guevel, X (Le Guevel, Xavier); Coll, JL (Coll, Jean-Luc); Ivanova, EP (Ivanova, Elena P.); Martel-Frchet, V (Martel-Frchet, Veronique)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 12 **Issue:** 43 **Pages:** 48272-48283 **DOI:** 10.1021/acsami.0c11502 **Published Date:** 2020 OCT 28

167 of 458

Title: Optical Trapping of Polystyrene Nanoparticles on Black Silicon: Implications for Trapping and Studying Bacteria and Viruses

Author(s): Komoto, S (Komoto, Sawa); Nagai, T (Nagai, Tatsuya); Takao, R (Takao, Ryota); Ushiro, K (Ushiro, Kenta); Matsumoto, M (Matsumoto, Mitsuhiro); Shoji, T (Shoji, Tatsuya); Linklater, DP (Linklater, Denver P.); Juodkazis, S (Juodkazis, Saulius); Tsuboi, Y (Tsuboi, Yasuyuki)

Source: ACS APPLIED NANO MATERIALS **Volume:** 3 **Issue:** 10 **Pages:** 9831-9841 **DOI:** 10.1021/acsanm.0c01901 **Published Date:** 2020 OCT 23

168 of 458

Title: International Conference on Photo-Excited Processes and Applications, ICPEPA-11

Author(s): Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas); Raciukaitis, G (Raciukaitis, Gediminas)

Source: APPLIED SURFACE SCIENCE **Volume:** 527 **Article Number:** 146768 **DOI:** 10.1016/j.apsusc.2020.146768 **Published Date:** 2020 OCT 15

169 of 458

Title: Lensless Three-Dimensional Quantitative Phase Imaging Using Phase Retrieval Algorithm

Author(s): Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF IMAGING **Volume:** 6 **Issue:** 9 **Article Number:** 99 **DOI:** 10.3390/jimaging6090099 **Published Date:** 2020 SEP

170 of 458

Title: Kirchhoff's Thermal Radiation from Lithography-Free Black Metals

Author(s): Kumagai, T (Kumagai, Takuhiro); To, N (To, Naoki); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Nishijima, Y (Nishijima, Yoshiaki)

Source: MICROMACHINES **Volume:** 11 **Issue:** 9 **Article Number:** 824 **DOI:** 10.3390/mi11090824 **Published Date:** 2020 SEP

171 of 458

Title: Second Harmonic Generation from Phase-Engineered Metasurfaces of Nanoprisms

Author(s): Mochizuki, K (Mochizuki, Kanta); Sugiura, M (Sugiura, Mako); Yogo, H (Yogo, Hirofumi); Lundgaard, S (Lundgaard, Stefan); Hu, JW (Hu, Jingwen); Ng, SH (Ng, Soon Hock); Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius); Sugita, A (Sugita, Atsushi)

Source: MICROMACHINES **Volume:** 11 **Issue:** 9 **Article Number:** 848 **DOI:** 10.3390/mi11090848 **Published Date:** 2020 SEP

172 of 458

Title: Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles

Author(s): Manikandan, V (Manikandan, V); Petrila, I (Petrila, Iulian); Kavita, S (Kavita, S.); Mane, RS (Mane, R. S.); Denardin, JC (Denardin, Juliano C.); Lundgaard, S (Lundgaard, Stefan); Juodkazis, S (Juodkazis, Saulius); Vigneselman, S (Vigneselman, S.); Chandrasekaran, J (Chandrasekaran, J.)

Source: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 31 **Issue:** 19 **Pages:** 16728-16736 **DOI:** 10.1007/s10854-020-04228-3 **Early Access Date:** AUG 2020 **Published Date:** 2020 OCT

173 of 458

Title: Single shot multispectral multidimensional imaging using chaotic waves

Author(s): Anand, V (Anand, Vijayakumar); Ng, SH (Ng, Soon Hock); Maksimovic, J (Maksimovic, Jovan); Linklater, D (Linklater, Denver); Katkus, T (Katkus, Tomas); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: SCIENTIFIC REPORTS **Volume:** 10 **Issue:** 1 **Article Number:** 13902 **DOI:** 10.1038/s41598-020-70849-7 **Published Date:** 2020 AUG 17

174 of 458

Title: Mechano-bactericidal actions of nanostructured surfaces

Author(s): Linklater, DP (Linklater, Denver P.); Baulin, VA (Baulin, Vladimir A.); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Stoodley, P (Stoodley, Paul); Ivanova, EP (Ivanova, Elena P.)

Source: NATURE REVIEWS MICROBIOLOGY **Volume:** 19 **Issue:** 1 **Pages:** 8-22 **DOI:** 10.1038/s41579-020-0414-z **Early Access Date:** AUG 2020 **Published Date:** 2021 JAN

175 of 458

Title: Improvement and stabilization of optical hydrogen sensing ability of Au-Pd alloys

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Kurotsu, T (Kurotsu, Takuma); Yamasaku, N (Yamasaku, Naoki); Takahashii, H (Takahashii, Hajime); Kurihara, K (Kurihara, Keisuke); Beni, T (Beni, Takaaki); Okazaki, S (Okazaki, Shinji); Arakawa, T (Arakawa, Taro); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Baltytis, A (Baltytis, Armandas)

Source: OPTICS EXPRESS **Volume:** 28 **Issue:** 17 **Pages:** 25383-25391 **DOI:** 10.1364/OE.398784 **Published Date:** 2020 AUG 17

176 of 458

Title: Direct Measurement of Temperature Diffusivity of Nanocellulose-Doped Biodegradable Composite Films

Author(s): Fujisawa, H (Fujisawa, Hiroki); Ryu, M (Ryu, Meguya); Lundgaard, S (Lundgaard, Stefan); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: MICROMACHINES **Volume:** 11 **Issue:** 8 **Article Number:** 738 **DOI:** 10.3390/mi11080738 **Published Date:** 2020 AUG

177 of 458

Title: Microring resonators with circular element inner-wall gratings for enhanced sensing

Author(s): Petruskevicius, R (Petruskevicius, Raimondas); Balcytis, A (Balcytis, Armandas); Urbonas, D (Urbonas, Darius); Vaskevicius, K (Vaskevicius, Konstantinas); Juodkazis, S (Juodkazis, Saulius)

Source: JAPANESE JOURNAL OF APPLIED PHYSICS **Volume:** 59 **Special Issue:** SO **Article Number:** S00D02 **DOI:** 10.35848/1347-4065/ab9232 **Published Date:** 2020 AUG

178 of 458

Title: Laser-printed hollow nanostructures for nonlinear plasmonics

Author(s): Cherepakhin, AB (Cherepakhin, Artem B.); Pavlov, DV (Pavlov, Dmitrii, V); Shishkin, II (Shishkin, Ivan I.); Voroshilov, PM (Voroshilov, Pavel M.); Juodkazis, S (Juodkazis, Saulius); Makarov, SV (Makarov, Sergey, V); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.)

Source: APPLIED PHYSICS LETTERS **Volume:** 117 **Issue:** 4 **Article Number:** 041108 **DOI:** 10.1063/5.0016173 **Published Date:** 2020 JUL 27

179 of 458

Title: The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces

Author(s): Ivanova, EP (Ivanova, Elena P.); Linklater, DP (Linklater, Denver P.); Werner, M (Werner, Marco); Baulin, VA (Baulin, Vladimir A.); Xu, XM (Xu, XiuMei); Vrancken, N (Vrancken, Nandi); Rubanov, S (Rubanov, Sergey); Hanssen, E (Hanssen, Eric); Wandiyanto, J (Wandiyanto, Jason); Truong, VK (Truong, Vi Khanh); Elbourne, A (Elbourne, Aaron); MacLaughlin, S (MacLaughlin, Shane); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.)

Source: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA **Volume:** 117 **Issue:** 23 **Pages:** 12598-12605 **DOI:** 10.1073/pnas.1916680117 **Published Date:** 2020 JUN 9

180 of 458

Title: Tilted black-Si: ~0.45 form-birefringence from sub-wavelength needles

Author(s): Gailevicius, D (Gailevicius, Darius); Ryu, M (Ryu, Meguya); Honda, R (Honda, Reo); Lundgaard, S (Lundgaard, Stefan); Suzuki, T (Suzuki, Tai); Maksimovic, J (Maksimovic, Jovan); Hu, JW (Hu, Jingwen); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Katkus, T (Katkus, Tomas); Anand, V (Anand, Vijayakumar); Malinauskas, M (Malinauskas, Mangirdas); Nishijima, Y (Nishijima, Yoshiaki); Ng, SH (Ng, Soon Hock); Staliunas, K (Staliunas, Kestutis); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 28 **Issue:** 11 **Pages:** 16012-16026 **DOI:** 10.1364/OE.392646 **Published Date:** 2020 MAY 25

181 of 458

Title: Black-Si as a Photoelectrode

Author(s): Linklater, DP (Linklater, Denver P.); Haydous, F (Haydous, Fatima); Xi, C (Xi, Cheng); Pergolesi, D (Pergolesi, Daniele); Hu, JW (Hu, Jingwen); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius); Lippert, T (Lippert, Thomas); Juodkazyte, J (Juodkazyte, Jurga)

Source: NANOMATERIALS **Volume:** 10 **Issue:** 5 **Article Number:** 873 **DOI:** 10.3390/nano10050873 **Published Date:** 2020 MAY

182 of 458

Title: Laser polymerized photonic wire bonds approach 1 Tbit/s data rates
Author(s): Juodkazis, S (Juodkazis, Saulius)
Source: LIGHT-SCIENCE & APPLICATIONS **Volume:** 9 **Issue:** 1 **Article Number:** 72 **DOI:** 10.1038/s41377-020-0292-1 **Published Date:** 2020 APR 27

183 of 458

Title: Light-Emitting Nanophotonic Designs Enabled by Ultrafast Laser Processing of Halide Perovskites

Author(s): Zhizhchenko, AY (Zhizhchenko, Alexey Y.); Tonkaev, P (Tonkaev, Pavel); Gets, D (Gets, Dmitry); Larin, A (Larin, Artem); Zuev, D (Zuev, Dmitry); Starikov, S (Starikov, Sergey); Pustovalov, EV (Pustovalov, Eugeny V.); Zakharenko, AM (Zakharenko, Alexander M.); Kulinich, SA (Kulinich, Sergei A.); Juodkazis, S (Juodkazis, Saulius); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.); Makarov, SV (Makarov, Sergey V.)

Source: SMALL **Volume:** 16 **Issue:** 19 **Article Number:** 2000410 **DOI:** 10.1002/smll.202000410 **Early Access Date:** APR 2020 **Published Date:** 2020 MAY

184 of 458

Title: Randomly Multiplexed Diffractive Lens and Axicon for Spatial and Spectral Imaging

Author(s): Anand, V (Anand, Vijayakumar); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 11 **Issue:** 4 **Article Number:** 437 **DOI:** 10.3390/mi11040437 **Published Date:** 2020 APR

185 of 458

Title: Detailed Experiment-Theory Comparison of Mid-Infrared Metasurface Perfect Absorbers

Author(s): To, N (To, Naoki); Juodkazis, S (Juodkazis, Saulius); Nishijima, Y (Nishijima, Yoshiaki)

Source: MICROMACHINES **Volume:** 11 **Issue:** 4 **Article Number:** 409 **DOI:** 10.3390/mi11040409 **Published Date:** 2020 APR

186 of 458

Title: O-FIB: far-field-induced near-field breakdown for direct nanowriting in an atmospheric environment

Author(s): Li, ZZ (Li, Zhen-Ze); Wang, L (Wang, Lei); Fan, H (Fan, Hua); Yu, YH (Yu, Yan-Hao); Sun, HB (Sun, Hong-Bo); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai)

Source: LIGHT-SCIENCE & APPLICATIONS **Volume:** 9 **Issue:** 1 **Article Number:** 41 **DOI:** 10.1038/s41377-020-0275-2 **Published Date:** 2020 MAR 16

187 of 458

Title: Thermal control of SZ2080 photopolymerization in four-beam interference lithography

Author(s): Prielaidas, Z (Prielaidas, Zygimantas); Juodkazis, S (Juodkazis, Saulius); Stankevicius, E (Stankevicius, Evaldas)

Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 22 **Issue:** 9 **Pages:** 5038-5045 **DOI:** 10.1039/c9cp05168f **Published Date:** 2020 MAR 7

188 of 458

Title: Giant Enhancement of THz Wave Emission under Double-Pulse Excitation of Thin Water Flow

Author(s): Huang, HH (Huang, Hsin-hui); Nagashima, T (Nagashima, Takeshi); Yonezawa, T (Yonezawa, Tetsu); Matsuo, Y (Matsuo, Yasutaka); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: APPLIED SCIENCES-BASEL **Volume:** 10 **Issue:** 6 **Article Number:** 2031 **DOI:** 10.3390/app10062031 **Published Date:** 2020 MAR

189 of 458

Title: Black Metals: Optical Absorbers

Author(s): Lundgaard, S (Lundgaard, Stefan); Ng, SH (Ng, Soon Hock); Nishijima, Y (Nishijima, Yoshiaki); Mazilu, M (Mazilu, Michael); Juodkazis, S (Juodkazis, Saulius)

Source: MICROMACHINES **Volume:** 11 **Issue:** 3 **Article Number:** 256 **DOI:** 10.3390/mi11030256 **Published Date:** 2020 MAR

190 of 458

Title: Optically-Thin Broadband Graphene-Membrane Photodetector

Author(s): Moein, T (Moein, Tania); Gailevicius, D (Gailevicius, Darius); Katkus, T (Katkus, Tomas); Ng, SH (Ng, Soon Hock); Lundgaard, S (Lundgaard, Stefan); Moss, DJ (Moss, David J.); Kurt, H (Kurt, Hamza); Mizeikis, V (Mizeikis, Vygantas); Staliunas, K (Staliunas, Kestutis); Malinauskas, M (Malinauskas, Mangirdas); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 10 **Issue:** 3 **Article Number:** 407 **DOI:** 10.3390/nano10030407 **Published Date:** 2020 MAR

191 of 458

Title: Novel Plasmonic Nanocavities for Optical Trapping-Assisted Biosensing Applications

Author(s): Koya, AN (Koya, Alemayehu Nana); Cunha, J (Cunha, Joao); Guo, TL (Guo, Tian-Long); Toma, A (Toma, Andrea); Garoli, D (Garoli, Denis); Wang, T (Wang, Tao); Juodkazis, S (Juodkazis, Saulius); Cojoc, D (Cojoc, Dan); Zaccaria, RP (Zaccaria, Remo Proietti)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 8 **Issue:** 7 **Article Number:** 1901481 **DOI:** 10.1002/adom.201901481 **Early Access Date:** FEB 2020 **Published Date:** 2020 APR 3

192 of 458

Title: MetaOptics: opensource software for designing metasurface optical element GDSII layouts

Author(s): Dharmavarapu, R (Dharmavarapu, Raghu); Ng, SH (Ng, Soon Hock); Eftekhari, F (Eftekhari, Fatima); Juodkazis, S (Juodkazis, Saulius); Bhattacharya, S (Bhattacharya, Shanti)

Source: OPTICS EXPRESS **Volume:** 28 **Issue:** 3 **Pages:** 3505-3516 **DOI:** 10.1364/OE.384057 **Published Date:** 2020 FEB 3

193 of 458

Title: Convex silica microlens arrays via femtosecond laser writing

Author(s): Hua, JG (Hua, Jian-Guan); Ren, H (Ren, Hang); Jia, A (Jia, Ao); Tian, ZN (Tian, Zhen-Nan); Wang, L (Wang, Lei); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 45 **Issue:** 3 **Pages:** 636-639 **DOI:** 10.1364/OL.378606 **Published Date:** 2020 FEB 1

194 of 458

Title: Ablation in Externally Applied Electric and Magnetic Fields

Author(s): Maksimovic, J (Maksimovic, Jovan); Ng, SH (Ng, Soon-Hock); Katkus, T (Katkus, Tomas); Le, NHA (Nguyen Hoai An Le); Chon, JWM (Chon, James W. M.); Cowie, BCC (Cowie, Bruce C. C.); Yang, T (Yang, Tao); Bellouard, Y (Bellouard, Yves); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 10 **Issue:** 2 **Article Number:** 182 **DOI:** 10.3390/nano10020182 **Published Date:** 2020 FEB

195 of 458

Title: A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO₂) for sensing carbon dioxide gas and humidity

Author(s): Manikandan, V (Manikandan, V); Petrila, I (Petrila, Iulian); Vigneselman, S (Vigneselman, S.); Mane, RS (Mane, R. S.); Vasile, B (Vasile, Bogdan); Dharmavarapu, R (Dharmavarapu, Raghu); Lundgaard, S (Lundgaard, Stefan); Juodkazis, S (Juodkazis, Saulius); Chandrasekaran, J (Chandrasekaran, J.)

Source: RSC ADVANCES **Volume:** 10 **Issue:** 7 **Pages:** 3796-3804 **DOI:** 10.1039/c9ra09579a **Published Date:** 2020 JAN 23

196 of 458

Title: Ultrasensitive SERS-Based Plasmonic Sensor with Analyte Enrichment System Produced by Direct Laser Writing

Author(s): Pavliuk, G (Pavliuk, Georgii); Pavlov, D (Pavlov, Dmitrii); Mitsai, E (Mitsai, Eugeny); Vitrik, O (Vitrik, Oleg); Mironenko, A (Mironenko, Aleksandr); Zakharenko, A (Zakharenko, Alexander); Kulinich, SA (Kulinich, Sergei A.); Juodkazis, S (Juodkazis, Saulius); Bratskaya, S (Bratskaya, Svetlana); Zhizhchenko, A (Zhizhchenko, Alexey); Kuchmizhak, A (Kuchmizhak, Aleksandr)

Source: NANOMATERIALS **Volume:** 10 **Issue:** 1 **Article Number:** 49 **DOI:** 10.3390/nano10010049 **Published Date:** 2020 JAN

197 of 458

Title: Fresnel incoherent correlation holography with single camera shot

Author(s): Vijayakumar, A (Vijayakumar, Anand); Katkus, T (Katkus, Tomas); Lundgaard, S (Lundgaard, Stefan); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius)

Source: OPTO-ELECTRONIC ADVANCES **Volume:** 3 **Issue:** 8 **Article Number:** 200004 **DOI:** 10.29026/oea.2020.200004 **Published Date:** 2020

198 of 458

Title: Dielectric cross-shaped-resonator-based metasurface for vortex beam generation at mid-IR and THz wavelengths (vol 8, pg 1263, 2019)

Author(s): Dharmavarapu, R (Dharmavarapu, Raghu); Izumi, KI (Izumi, Ken-ichi); Katayama, I (Katayama, Ikufumi); Ng, SH (Ng, Soon Hock); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Kuchmizhak, A (Kuchmizhak,

Aleksandr); Nishijima, Y (Nishijima, Yoshiaki); Bhattacharya, S (Bhattacharya, Shanti); Juodkazis, S (Juodkazis, Saulius)

Source: NANOPHOTONICS **Volume:** 8 **Issue:** 12 **Pages:** 2359-2359 **DOI:** 10.1515/nanoph-2019-0421 **Published Date:** 2019 DEC

199 of 458

Title: Hydrogen Evolution on Nano-Structured CuO/Pd Electrode: Raman Scattering Study

Author(s): Juodkazyte, J (Juodkazyte, Jurga); Juodkazis, K (Juodkazis, Kestutis); Matulaitiene, I (Matulaitiene, Ieva); Sebek, B (Sebek, Benjaminas); Savickaja, I (Savickaja, Irena); Balcytis, A (Balcytis, Armandas); Nishijima, Y (Nishijima, Yoshiaki); Niaura, G (Niaura, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SCIENCES-BASEL **Volume:** 9 **Issue:** 24 **Article Number:** 5301 **DOI:** 10.3390/app9245301 **Published Date:** 2019 DEC

200 of 458

Title: External Field-Controlled Ablation: Magnetic Field

Author(s): Maksimovic, J (Maksimovic, Jovan); Ng, SH (Ng, Soon Hock); Katkus, T (Katkus, Tomas); Cowie, BCC (Cowie, Bruce C. C.); Juodkazis, S (Juodkazis, Saulius)

Source: NANOMATERIALS **Volume:** 9 **Issue:** 12 **Article Number:** 1662 **DOI:** 10.3390/nano9121662 **Published Date:** 2019 DEC

201 of 458

Title: Control of diameter and numerical aperture of microlens by a single ultra-short laser pulse

Author(s): Fan, H (Fan, Hua); Cao, XW (Cao, Xiao-Wen); Wang, L (Wang, Lei); Li, ZZ (Li, Zhen-Ze); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 44 **Issue:** 21 **Pages:** 5149-5152 **DOI:** 10.1364/OL.44.005149 **Published Date:** 2019 NOV 1

202 of 458

Title: Ultratrace Nitroaromatic Vapor Detection via Surface-Enhanced Fluorescence on Carbazole-Terminated Black Silicon

Author(s): Mironenko, AY (Mironenko, Aleksandr Yu.); Tutov, MV (Tutov, Mikhail V.); Sergeev, AA (Sergeev, Aleksandr A.); Mitsai, EV (Mitsai, Eugeny V.); Ustinov, AY (Ustinov, Alexander Yu.); Zhizhchenko, AY (Zhizhchenko, Aleksey Yu.); Linklater, DP (Linklater, Denver P.); Bratskaya, SY (Bratskaya, Svetlana Yu.); Juodkazis, S (Juodkazis, Saulius); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.)

Source: ACS SENSORS **Volume:** 4 **Issue:** 11 **Pages:** 2879-2884 **DOI:** 10.1021/acssensors.9b01063 **Published Date:** 2019 NOV

203 of 458

Title: Hyperspectral mapping of anisotropy

Author(s): Ryu, M (Ryu, Meguya); Honda, R (Honda, Reo); Balcytis, A (Balcytis, Armandas); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: NANOSCALE HORIZONS **Volume:** 4 **Issue:** 6 **Pages:** 1443-1449 **DOI:** 10.1039/c9nh00340a **Published Date:** 2019 NOV 1

204 of 458

Title: Laser-Inscribed Stress-Induced Birefringence of Sapphire

Author(s): Fan, H (Fan, Hua); Ryu, M (Ryu, Meguya); Honda, R (Honda, Reo); Morikawa, J (Morikawa, Junko); Li, ZZ (Li, Zhen-Ze); Wang, L (Wang, Lei); Maksimovic, J (Maksimovic, Jovan); Juodkazis, S (Juodkazis, Saulius); Chen, QD (Chen, Qi-Dai); Sun, HB (Sun, Hong-Bo)

Source: NANOMATERIALS **Volume:** 9 **Issue:** 10 **Article Number:** 1414 **DOI:** 10.3390/nano9101414 **Published Date:** 2019 OCT

205 of 458

Title: Multi-Purpose Nanovoid Array Plasmonic Sensor Produced by Direct Laser Patterning

Author(s): Pavlov, DV (Pavlov, Dmitrii V.); Zhizhchenko, AY (Zhizhchenko, Alexey Yu.); Honda, M (Honda, Mitsuhiko); Yamanaka, M (Yamanaka, Masahito); Vitrik, OB (Vitrik, Oleg B.); Kulinich, SA (Kulinich, Sergei A.); Juodkazis, S (Juodkazis, Saulius); Kudryashov, SI (Kudryashov, Sergey I.); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.)

Source: NANOMATERIALS **Volume:** 9 **Issue:** 10 **Article Number:** 1348 **DOI:** 10.3390/nano9101348 **Published Date:** 2019 OCT

206 of 458

Title: Near-Field IR Orientational Spectroscopy of Silk

Author(s): Ryu, M (Ryu, Meguya); Honda, R (Honda, Reo); Reich, A (Reich, Aina); Cernescu, A (Cernescu, Adrian); Li, JL (Li, Jing-Liang); Hu, JW (Hu, Jingwen); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: APPLIED SCIENCES-BASEL **Volume:** 9 **Issue:** 19 **Article Number:** 3991 **DOI:** 10.3390/app9193991 **Published Date:** 2019 OCT

207 of 458

Title: The idiosyncratic self-cleaning cycle of bacteria on regularly arrayed mechano-bactericidal nanostructures

Author(s): Nguyen, DHK (Nguyen, Duy H. K.); Loebbe, C (Loebbe, Christian); Linklater, DP (Linklater, Denver P.); Xu, XM (Xu, XiuMei); Vrancken, N (Vrancken, Nandi); Katkus, T (Katkus, Tomas); Juodkazis, S (Juodkazis, Saulius); Maclaughlin, S (Maclaughlin, Shane); Baulin, V (Baulin, Vladimir); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: NANOSCALE **Volume:** 11 **Issue:** 35 **Pages:** 16455-16462 **DOI:** 10.1039/c9nr05923g **Published Date:** 2019 SEP 21

208 of 458

Title: Metamaterial for Hydrogen Sensing

Author(s): Beni, T (Beni, Takaaki); Yamasaku, N (Yamasaku, Naoki); Kurotsu, T (Kurotsu, Takuma); To, N (To, Naoki); Okazaki, S (Okazaki, Shinji); Arakawa, T (Arakawa, Taro); Balcytics, A (Balcytics, Armandas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Nishijima, Y (Nishijima, Yoshiaki)

Source: ACS SENSORS **Volume:** 4 **Issue:** 9 **Pages:** 2389-2394 **DOI:** 10.1021/acssensors.9b00980 **Published Date:** 2019 SEP

209 of 458

Title: Outsmarting superbugs: bactericidal activity of nanostructured titanium surfaces against methicillin- and gentamicin-resistant *Staphylococcus aureus* ATCC 33592

Author(s): Wandiyanto, JV (Wandiyanto, Jason V.); Cheeseman, S (Cheeseman, Samuel); Truong, VK (Vi Khanh Truong); Al Kobaisi, M (Al Kobaisi, Mohammad); Bizet, C (Bizet, Chantal); Juodkazis, S (Juodkazis, Saulius); Thissen, H (Thissen, Helmut); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: JOURNAL OF MATERIALS CHEMISTRY B **Volume:** 7 **Issue:** 28 **Pages:** 4424-4431 **DOI:** 10.1039/c9tb00102f **Published Date:** 2019 JUL 28

210 of 458

Title: Dielectric cross-shaped-resonator-based metasurface for vortex beam generation at mid-IR and THz wavelengths

Author(s): Dharmavarapu, R (Dharmavarapu, Raghu); Izumi, K (Izumi, Ken-ichi); Katayama, I (Katayama, Ikufumi); Ng, SH (Ng, Soon Hock); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Kuchmizhak, A (Kuchmizhak, Aleksandr); Nishijima, Y (Nishijima, Yoshiaki); Bhattacharya, S (Bhattacharya, Shanti); Juodkazis, S (Juodkazis, Saulius)

Source: NANOPHOTONICS **Volume:** 8 **Issue:** 7 **Pages:** 1263-1270 **DOI:** 10.1515/nanoph-2019-0112 **Published Date:** 2019 JUL

211 of 458

Title: Correlated emission of X-ray and sound from water film irradiated by femtosecond laser pulses

Author(s): Huang, HH (Huang, Hsin-hui); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: APPLIED SURFACE SCIENCE **Volume:** 480 **Pages:** 665-670 **DOI:** 10.1016/j.apsusc.2019.02.114 **Published Date:** 2019 JUN 30

212 of 458

Title: Kirchhoff's metasurfaces towards efficient photo-thermal energy conversion

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Balcytis, A (Balcytis, Armandas); Naganuma, S (Naganuma, Shin); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: SCIENTIFIC REPORTS **Volume:** 9 **Article Number:** 8284 **DOI:** 10.1038/s41598-019-44781-4 **Published Date:** 2019 JUN 4

213 of 458

Title: Mesoscale laser 3D printing

Author(s): Jonusauskas, L (Jonusauskas, Linas); Gailevicius, D (Gailevicius, Darius); Rekstyte, S (Rekstyte, Sima); Baldacchini, T (Baldacchini, Tommaso); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: OPTICS EXPRESS **Volume:** 27 **Issue:** 11 **Pages:** 15205-15221 **DOI:** 10.1364/OE.27.015205 **Published Date:** 2019 MAY 27

214 of 458

Title: Advanced Design and Electrical Properties Simulation of Two-Dimensional Photovoltaic Devices

Author(s): Zhang, Q (Zhang, Qiang); Qi, SC (Qi, Shaocheng); Dai, CZ (Dai, Chaozhu); Chen, RW (Chen, Ruowang); Wu, ZD (Wu, Zhendong); Zhang, XY

(Zhang, Xingye); Juodkazis, S (Juodkazis, Saulius); Zhang, HB (Zhang, Hengbo); Dai, MZ (Dai, Mingzhi); Wang, PJ (Wang, Pengjun)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 123 **Issue:** 18 **Pages:** 11347-11350 **DOI:** 10.1021/acs.jpcc.8b09186 **Published Date:** 2019 MAY 9

215 of 458

Title: The Fate of Osteoblast-Like MG-63 Cells on Pre-Infected Bactericidal Nanostructured Titanium Surfaces

Author(s): Wandiyanto, JV (Wandiyanto, Jason V.); Truong, VK (Truong, Vi Khanh); Al Kobaisi, M (Al Kobaisi, Mohammad); Juodkazis, S (Juodkazis, Saulius); Thissen, H (Thissen, Helmut); Bazaka, O (Bazaka, Olha); Bazaka, K (Bazaka, Kateryna); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: MATERIALS **Volume:** 12 **Issue:** 10 **Article Number:** 1575 **DOI:** 10.3390/ma12101575 **Published Date:** 2019 MAY 2

216 of 458

Title: Additive-manufacturing of 3D glass-ceramics down to nanoscale resolution

Author(s): Gailevicius, D (Gailevicius, Darius); Padolskyte, V (Padolskyte, Viktorija); Mikoliunaite, L (Mikoliunaite, Lina); Sakirzanovas, S (Sakirzanovas, Simas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: NANOSCALE HORIZONS **Volume:** 4 **Issue:** 3 **Pages:** 647-651 **DOI:** 10.1039/c8nh00293b **Published Date:** 2019 MAY 1

217 of 458

Title: Infrared Polariscopy Imaging of Linear Polymeric Patterns with a Focal Plane Array

Author(s): Honda, R (Honda, Reo); Ryu, M (Ryu, Meguya); Moritake, M (Moritake, Masayuki); Balcytis, A (Balcytis, Armandas); Mizeikis, V (Mizeikis, Vygantas); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Appadoo, D (Appadoo, Dominique); Li, JL (Li, Jing-Liang); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: NANOMATERIALS **Volume:** 9 **Issue:** 5 **Article Number:** 732 **DOI:** 10.3390/nano9050732 **Published Date:** 2019 MAY

218 of 458

Title: Fast fabrication of optical vortex generators by femtosecond laser ablation

Author(s): Hua, JG (Hua, Jian-Guan); Tian, ZN (Tian, Zhen-Nan); Xu, SJ (Xu, Si-Jia); Lundgaard, S (Lundgaard, Stefan); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 475 **Pages:** 660-665 **DOI:** 10.1016/j.apsusc.2018.12.249 **Published Date:** 2019 MAY 1

219 of 458

Title: Optical Nanofabrication of Concave Microlens Arrays

Author(s): Liu, XQ (Liu, Xue-Qing); Yu, L (Yu, Lei); Yang, SN (Yang, Shuang-Ning); Chen, QD (Chen, Qi-Dai); Wang, L (Wang, Lei); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: LASER & PHOTONICS REVIEWS **Volume:** 13 **Issue:** 5 **Article Number:** 1800272 **DOI:** 10.1002/lpor.201800272 **Published Date:** 2019 MAY

220 of 458

Title: Nanoscale optical and structural characterisation of silk

Author(s): Ryu, M (Ryu, Meguya); Handa, R (Handa, Reo); Cernescu, A (Cernescu, Adrian); Vailionis, A (Vailionis, Arturas); Balcytis, A (Balcytis, Armandas); Vongsvivut, J (Vongsvivut, Jitraporn); Li, JL (Li, Jing-Liang); Linklater, DP (Linklater, Denver P.); Ivanova, EP (Ivanova, Elena P.); Mizeikis, V (Mizeikis, Vygantas); Tobin, MJ (Tobin, Mark J.); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: BEILSTEIN JOURNAL OF NANOTECHNOLOGY **Volume:** 10 **Pages:** 922-929 **DOI:** 10.3762/bjnano.10.93 **Published Date:** 2019 APR 23

221 of 458

Title: Paracetamol micro-structure analysis by optical mapping

Author(s): Honda, R (Honda, Reo); Ryu, M (Ryu, Meguya); Balcytis, A (Balcytis, Armandas); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: APPLIED SURFACE SCIENCE **Volume:** 473 **Pages:** 127-132 **DOI:** 10.1016/j.apsusc.2018.12.121 **Published Date:** 2019 APR 15

222 of 458

Title: Influence of Amorphous, Carbon-Derived Wrinkled Surface Topologies on the Colonization of *Pseudomonas aeruginosa* Bacteria

Author(s): Nguyen, DHK (Nguyen, Duy H. K.); Wang, J (Wang, James); Sbarski, I (Sbarski, Igor); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: ADVANCED MATERIALS INTERFACES **Volume:** 6 **Issue:** 7 **Article Number:** 1801890 **DOI:** 10.1002/admi.201801890 **Published Date:** 2019 APR 9

223 of 458

Title: First Principles Calculations Toward Understanding SERS of 2,2-Bipyridyl Adsorbed on Au, Ag, and Au-Ag Nanoalloy

Author(s): Takenaka, M (Takenaka, Masato); Hashimoto, Y (Hashimoto, Yoshikazu); Iwasa, T (Iwasa, Takeshi); Taketsugu, T (Taketsugu, Tetsuya); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Nishijima, Y (Nishijima, Yoshiaki)

Source: JOURNAL OF COMPUTATIONAL CHEMISTRY **Volume:** 40 **Issue:** 8 **Pages:** 925-932 **DOI:** 10.1002/jcc.25603 **Published Date:** 2019 MAR 30

224 of 458

Title: Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings

Author(s): Cheeseman, S (Cheeseman, Samuel); Truong, VK (Vi Khanh Truong); Walter, V (Walter, Vivien); Thalmann, F (Thalmann, Fabrice); Marques, CM (Marques, Carlos M.); Hanssen, E (Hanssen, Eric); Vongsvivut, J (Vongsvivut, Jitraporn); Tobin, MJ (Tobin, Mark J.); Baulin, VA (Baulin, Vladimir A.); Juodkazis, S (Juodkazis, Saulius); MacLaughlin, S (MacLaughlin, Shane); Bryant, G (Bryant, Gary); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: LANGMUIR **Volume:** 35 **Issue:** 6 **Pages:** 2422-2430 **DOI:** 10.1021/acs.langmuir.8b03470 **Published Date:** 2019 FEB 12

225 of 458

Title: Phase controlled SERS enhancement

Author(s): Zheng, YH (Zheng, Yuanhui); Rosa, L (Rosa, Lorenzo); Thai, T (Thai, Thibaut); Ng, SH (Ng, Soon Hock); Juodkazis, S (Juodkazis, Saulius); Bach, U (Bach, Udo)

Source: SCIENTIFIC REPORTS **Volume:** 9 **Article Number:** 744 **DOI:** 10.1038/s41598-018-36491-0 **Published Date:** 2019 JAN 24

226 of 458

Title: GDOESII: Software for design of diffractive optical elements and phase mask conversion to GDSII lithography files

Author(s): Dharmavarapu, R (Dharmavarapu, Raghu); Bhattacharya, S (Bhattacharya, Shanti); Juodkazis, S (Juodkazis, Saulius)

Source: SOFTWAREX **Volume:** 9 **Pages:** 126-131 **DOI:** 10.1016/j.softx.2019.01.012 **Published Date:** 2019 JAN-JUN

227 of 458

Title: On-demand concentration of an analyte on laser-printed polytetrafluoroethylene

Author(s): Zhizhchenko, A (Zhizhchenko, Alexey); Kuchmizhak, A (Kuchmizhak, Aleksandr); Vitrik, O (Vitrik, Oleg); Kulchin, Y (Kulchin, Yuri); Juodkazis, S (Juodkazis, Saulius)

Source: NANOSCALE **Volume:** 10 **Issue:** 45 **Pages:** 21414-21424 **DOI:** 10.1039/c8nr06119j **Published Date:** 2018 DEC 7

228 of 458

Title: Simple multi-wavelength imaging of birefringence: case study of silk

Author(s): Honda, R (Honda, Reo); Ryu, M (Ryu, Meguya); Li, JL (Li, Jing-Liang); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: SCIENTIFIC REPORTS **Volume:** 8 **Article Number:** 17652 **DOI:** 10.1038/s41598-018-36114-8 **Published Date:** 2018 DEC 5

229 of 458

Title: Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron

Author(s): Wei, Z (Wei, Zhishun); Janczarek, M (Janczarek, Marcin); Endo, M (Endo, Maya); Wang, KL (Wang, Kunlei); Balcytis, A (Balcytis, Armandas); Nitta, A (Nitta, Akio); Méndez-Medrano, MG (Mendez-Medrano, Maria G.); Colbeau-Justin, C (Colbeau-Justin, Christophe); Juodkazis, S (Juodkazis, Saulius); Ohtani, B (Ohtani, Bunsho); Kowalska, E (Kowalska, Ewa)

Source: APPLIED CATALYSIS B-ENVIRONMENTAL **Volume:** 237 **Pages:** 574-587 **DOI:** 10.1016/j.apcatb.2018.06.027 **Published Date:** 2018 DEC 5

230 of 458

Title: Efficient humidity-sensitive electrical response of annealed lithium substituted nickel ferrite (Li-NiFe₂O₄) nanoparticles under ideal, real and corrosive environments

Author(s): Manikandan, V (Manikandan, V.); Petrila, I (Petrila, Iulian); Vigneselman, S (Vigneselman, S.); Dharmavarapu, R (Dharmavarapu, Raghu); Juodkasis, S (Juodkasis, Saulius); Kavita, S (Kavita, S.); Chandrasekaran, J (Chandrasekaran, J.)

Source: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 29 **Issue:** 21 **Pages:** 18660-18667 **DOI:** 10.1007/s10854-018-9987-y **Published Date:** 2018 NOV

231 of 458

Title: Enhancement of X-ray emission from nanocolloidal gold suspensions under double-pulse excitation

Author(s): Hsu, WH (Hsu, Wei-Hung); Masim, FCP (Masim, Frances Camille P.); Balcytis, A (Balcytis, Armandas); Huang, HH (Huang, Hsin-Hui); Yonezawa, T (Yonezawa, Tetsu); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.); Juodkasis, S (Juodkasis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: BEILSTEIN JOURNAL OF NANOTECHNOLOGY **Volume:** 9 **Pages:** 2609-2617 **DOI:** 10.3762/bjnano.9.242 **Published Date:** 2018 OCT 1

232 of 458

Title: From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches

Author(s): Balcytis, A (Balcytis, Armandas); Nishijima, Y (Nishijima, Yoshiaki); Krishnamoorthy, S (Krishnamoorthy, Sivashankar); Kuchmizhak, A (Kuchmizhak, Aleksandr); Stoddart, PR (Stoddart, Paul R.); Petruskevicius, R (Petruskevicius, Raimondas); Juodkasis, S (Juodkasis, Saulius)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 6 **Issue:** 16 **Article Number:** 1800292 **DOI:** 10.1002/adom.201800292 **Published Date:** 2018 AUG 20

233 of 458

Title: Plasmonic nano-imprinting by photo-doping

Author(s): Sun, YK (Sun, Yi-Ke); Wang, L (Wang, Lei); Kamano, M (Kamano, Masaru); Juodkasis, S (Juodkasis, Saulius)

Source: OPTICS LETTERS **Volume:** 43 **Issue:** 15 **Pages:** 3786-3789 **DOI:** 10.1364/OL.43.003786 **Published Date:** 2018 AUG 1

234 of 458

Title: Extreme Energy Density Confined Inside a Transparent Crystal: Status and Perspectives of Solid-Plasma-Solid Transformations

Author(s): Gamaly, EG (Gamaly, Eugene G.); Juodkasis, S (Juodkasis, Saulius); Rode, AV (Rode, Andrei V.)

Source: NANOMATERIALS **Volume:** 8 **Issue:** 7 **Article Number:** 555 **DOI:** 10.3390/nano8070555 **Published Date:** 2018 JUL

235 of 458

Title: Dual THz Wave and X-ray Generation from a Water Film under Femtosecond Laser Excitation

Author(s): Huang, HH (Huang, Hsin-hui); Nagashima, T (Nagashima, Takeshi); Hsu, WH (Hsu, Wei-hung); Juodkasis, S (Juodkasis, Saulius); Hatanaka, K (Hatanaka, Koji)

236 of 458

Title: High Aspect Ratio Nanostructures Kill Bacteria *via* Storage and Release of Mechanical Energy

Author(s): Linklater, DP (Linklater, Denver P.); De Volder, M (De Volder, Michael); Baulin, VA (Baulin, Vladimir A.); Werner, M (Werner, Marco); Jessl, S (Jessel, Sarah); Golozar, M (Golozar, Mehdi); Maggini, L (Maggini, Laura); Rubanov, S (Rubanov, Sergey); Hanssen, E (Hanssen, Eric); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: ACS NANO **Volume:** 12 **Issue:** 7 **Pages:** 6657-6667 **DOI:** 10.1021/acsnano.8b01665 **Published Date:** 2018 JUL

237 of 458

Title: Tailoring Metal and Insulator Contributions in Plasmonic Perfect Absorber Metasurfaces

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Balcytis, A (Balcytis, Armandas); Naganuma, S (Naganuma, Shin); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: ACS APPLIED NANO MATERIALS **Volume:** 1 **Issue:** 7 **Pages:** 3557-3564 **DOI:** 10.1021/acsanm.8b00710 **Published Date:** 2018 JUL

238 of 458

Title: Mechano-bactericidal mechanism of graphene nanomaterials

Author(s): Linklater, DP (Linklater, Denver P.); Baulin, VA (Baulin, Vladimir A.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: INTERFACE FOCUS **Volume:** 8 **Issue:** 3 **Article Number:** 20170060 **DOI:** 10.1098/rsfs.2017.0060 **Published Date:** 2018 JUN 6

239 of 458

Title: Pillars of Life: Is There a Relationship between Lifestyle Factors and the Surface Characteristics of Dragonfly Wings?

Author(s): Cheeseman, S (Cheeseman, Samuel); Owen, S (Owen, Stephanie); Truong, VK (Vi Khanh Truong); Meyer, D (Meyer, Denny); Ng, SH (Ng, Soon Hock); Vongsvivut, J (Vongsvivut, Jitraporn); Linklater, D (Linklater, Denver); Tobin, MJ (Tobin, Mark J.); Werner, M (Werner, Marco); Baulin, VA (Baulin, Vladimir A.); Luque, P (Luque, Pere); Marchant, R (Marchant, Richard); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: ACS OMEGA **Volume:** 3 **Issue:** 6 **Pages:** 6039-6046 **DOI:** 10.1021/acsomega.8b00776 **Published Date:** 2018 JUN

240 of 458

Title: Diffractive optics for axial intensity shaping of Bessel beams

Author(s): Dharmavarapu, R (Dharmavarapu, Raghu); Bhattacharya, S (Bhattacharya, Shanti); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF OPTICS **Volume:** 20 **Issue:** 8 **Article Number:** 085606 **DOI:** 10.1088/2040-8986/aad155 **Published Date:** 2018 JUN

241 of 458

Title: Liquid-Assisted Femtosecond Laser Precision-Machining of Silica

Author(s): Cao, XW (Cao, Xiao-Wen); Chen, QD (Chen, Qi-Dai); Fan, H (Fan, Hua); Zhang, L (Zhang, Lei); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: NANOMATERIALS **Volume:** 8 **Issue:** 5 **Article Number:** 287 **DOI:** 10.3390/nano8050287 **Published Date:** 2018 MAY

242 of 458

Title: Optical 3D printing: bridging the gaps in the mesoscale

Author(s): Jonusauskas, L (Jonusauskas, Linas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: JOURNAL OF OPTICS **Volume:** 20 **Issue:** 5 **Article Number:** 053001 **DOI:** 10.1088/2040-8986/aab3fe **Published Date:** 2018 MAY

243 of 458

Title: Micro-thermocouple on nano-membrane: thermometer for nanoscale measurements

Author(s): Balcytis, A (Balcytis, Armandas); Ryu, M (Ryu, Meguya); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: SCIENTIFIC REPORTS **Volume:** 8 **Article Number:** 6324 **DOI:** 10.1038/s41598-018-24583-w **Published Date:** 2018 APR 20

244 of 458

Title: Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency

Author(s): Bhadra, CM (Bhadra, Chris M.); Werner, M (Werner, Marco); Baulin, VA (Baulin, Vladimir A.); Truong, VK (Vi Khanh Truong); Al Kobaisi, M (Al Kobaisi, Mohammad); Nguyen, SH (Song Ha Nguyen); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Wang, JY (Wang, James Y.); Mainwaring, DE (Mainwaring, David E.); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: NANO-MICRO LETTERS **Volume:** 10 **Issue:** 2 **Article Number:** 36 **DOI:** 10.1007/s40820-017-0186-9 **Published Date:** 2018 APR

245 of 458

Title: Pheochromocytoma (PC12) Cell Response on Mechanobactericidal Titanium Surfaces

Author(s): Wandiyanto, JV (Wandiyanto, Jason V.); Linklater, D (Linklater, Denver); Perera, PGT (Perera, Pallale G. Tharushi); Orłowska, A (Orłowska, Anna); Truong, VK (Vi Khanh Truong); Thissen, H (Thissen, Helmut); Ghanaati, S (Ghanaati, Shahram); Baulin, V (Baulin, Vladimir); Crawford, RJ (Crawford, Russell J.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: MATERIALS **Volume:** 11 **Issue:** 4 **Article Number:** 605 **DOI:** 10.3390/ma11040605 **Published Date:** 2018 APR

246 of 458

Title: Role of topological scale in the differential fouling of *Pseudomonas aeruginosa* and *Staphylococcus aureus* bacterial cells on wrinkled gold-coated polystyrene surfaces

Author(s): Nguyen, DHK (Nguyen, Duy H. K.); Pham, VTH (Pham, Vy T. H.); Truong, VK (Vi Khanh Truong); Sbarski, I (Sbarski, Igor); Wang, J (Wang, James); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Mainwaring, DE (Mainwaring, David E.); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: NANOSCALE **Volume:** 10 **Issue:** 11 **Pages:** 5089-5096 **DOI:** 10.1039/c7nr08178b **Published Date:** 2018 MAR 21

247 of 458

Title: 3D printed polarizing grids for IR-THz synchrotron radiation

Author(s): Ryu, M (Ryu, Meguya); Linklater, D (Linklater, Denver); Hart, W (Hart, William); Balcytis, A (Balcytis, Armandas); Skliutas, E (Skliutas, Edvinas); Malinauskas, M (Malinauskas, Mangirdas); Appadoo, D (Appadoo, Dominique); Tan, YRE (Tan, Yaw-Ren Eugene); Ivanova, EP (Ivanova, Elena P.); Morikaw, J (Morikaw, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF OPTICS **Volume:** 20 **Issue:** 3 **Article Number:** 035101 **DOI:** 10.1088/2040-8986/aaa6fb **Published Date:** 2018 MAR

248 of 458

Title: Single-pulse writing of a concave microlens array

Author(s): Cao, XW (Cao, Xiao-Wen); Chen, QD (Chen, Qi-Dai); Zhang, L (Zhang, Lei); Tian, ZN (Tian, Zhen-Nan); Li, QK (Li, Qian-Kun); Wang, L (Wang, Lei); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 43 **Issue:** 4 **Pages:** 831-834 **DOI:** 10.1364/OL.43.000831 **Published Date:** 2018 FEB 15

249 of 458

Title: Formation of Deep-Subwavelength Structures on Organic Materials by Femtosecond Laser Ablation

Author(s): Wang, L (Wang, Lei); Cao, XW (Cao, Xiao-Wen); Lv, C (Lv, Chao); Xia, H (Xia, Hong); Tian, WJ (Tian, Wen-Jing); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: IEEE JOURNAL OF QUANTUM ELECTRONICS **Volume:** 54 **Issue:** 1 **Article Number:** 9200207 **DOI:** 10.1109/JQE.2017.2753040 **Published Date:** 2018 FEB

250 of 458

Title: Orientational Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk (vol 7, pg 7419, 2017)

Author(s): Ryu, M (Ryu, Meguya); Balcytis, A (Balcytis, Armandas); Wang, XW (Wang, Xuewen); Vongsvivut, J (Vongsvivut, Jitraporn); Hikima, YT (Hikima, Yuta); Li, JL (Li, Jingliang); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: SCIENTIFIC REPORTS **Volume:** 8 **Article Number:** 1752 **DOI:** 10.1038/s41598-018-19721-3 **Published Date:** 2018 JAN 24

251 of 458

Title: Single-Step Laser Plasmonic Coloration of Metal Films

Author(s): Wang, XW (Wang, Xuewen); Kuchmizhak, A (Kuchmizhak, Aleksandr); Storozhenko, D (Storozhenko, Dmitry); Makarov, S (Makarov, Sergey); Juodkazis, S (Juodkazis, Saulius)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 10 **Issue:** 1 **Pages:** 1422-1427 **DOI:** 10.1021/acsami.7b16339 **Published Date:** 2018 JAN 10

252 of 458

Title: Plasmonic nano-printing: large-area nanoscale energy deposition for efficient surface texturing

Author(s): Wang, L (Wang, Lei); Chen, QD (Chen, Qi-Dai); Cao, XW (Cao, Xiao-Wen); Buividas, R (Buividas, Ricardas); Wang, XW (Wang, Xuewen); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: LIGHT-SCIENCE & APPLICATIONS **Volume:** 6 **Article Number:** e17112 **DOI:** 10.1038/lsa.2017.112 **Published Date:** 2017 DEC 29

253 of 458

Title: Nanofabrication of mechano-bactericidal surfaces

Author(s): Linklater, DP (Linklater, Denver P.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: NANOSCALE **Volume:** 9 **Issue:** 43 **Pages:** 16564-16585 **DOI:** 10.1039/c7nr05881k **Published Date:** 2017 NOV 21

254 of 458

Title: Influence of nanoscale topology on the bactericidal efficiency of black silicon surfaces (vol 28, 245301, 2017)

Author(s): Linklater, DP (Linklater, Denver P.); Nguyen, HKD (Huu Khuong Duy Nguyen); Bhadra, CM (Bhadra, Chris M.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: NANOTECHNOLOGY **Volume:** 28 **Issue:** 46 **Article Number:** 469501 **DOI:** 10.1088/1361-6528/aa8ce6 **Published Date:** 2017 NOV 17

255 of 458

Title: Gigahertz Optomechanical Modulation by Split-Ring-Resonator Nanophotonic Meta-Atom Arrays

Author(s): Imade, Y (Imade, Yuta); Ulbricht, R (Ulbricht, Ronald); Tomoda, M (Tomoda, Motonobu); Matsuda, O (Matsuda, Osamu); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Wright, OB (Wright, Oliver B.)

Source: NANO LETTERS **Volume:** 17 **Issue:** 11 **Pages:** 6684-6689 **DOI:** 10.1021/acs.nanolett.7b02663 **Published Date:** 2017 NOV

256 of 458

Title: Nanoscale chemical mapping of laser-solubilized silk

Author(s): Ryu, M (Ryu, Meguya); Kobayashi, H (Kobayashi, Hanae); Balcytis, A (Balcytis, Armandas); Wang, XW (Wang, Xuewen); Vongsvivut, J (Vongsvivut, Jitraporn); Li, JL (Li, Jingliang); Urayama, N (Urayama, Norio); Mizeikis, V (Mizeikis, Vygantas); Tobin, M (Tobin, Mark); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: MATERIALS RESEARCH EXPRESS **Volume:** 4 **Issue:** 11 **Article Number:** 115028 **DOI:** 10.1088/2053-1591/aa98a9 **Published Date:** 2017 NOV

257 of 458

Title: Three-Dimensional Organization of Self-Encapsulating *Gluconobacter oxydans* Bacterial Cells

Author(s): Truong, VK (Vi Khanh Truong); Bhadra, CM (Bhadra, Chris M.); Christofferson, AJ (Christofferson, Andrew J.); Yarovsky, I (Yarovsky, Irene); Al Kobaisi, M (Al Kobaisi, Mohammad); Garvey, CJ (Garvey, Christopher J.); Ponamoreva, ON (Ponamoreva, Olga N.); Alferov, SV (Alferov, Sergey V.); Alferov, VA (Alferov, Valery A.); Perera, PGT (Perera, Palalle G. Tharushi); Nguyen, DHK (Nguyen, Duy H. K.); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: ACS OMEGA **Volume:** 2 **Issue:** 11 **Pages:** 8099-8107 **DOI:** 10.1021/acsomega.7b01282 **Published Date:** 2017 NOV

258 of 458

Title: Nano-ablation of silica by plasmonic surface wave at low fluence

Author(s): Wang, L (Wang, Lei); Cao, XW (Cao, Xiao-Wen); Abid, MI (Abid, Muhammad Irfan); Li, QK (Li, Qian-Kun); Tian, WJ (Tian, Wen-Jing); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 42 **Issue:** 21 **Pages:** 4446-4449 **DOI:** 10.1364/OL.42.004446 **Published Date:** 2017 NOV 1

259 of 458

Title: Dynamic position shifts of X-ray emission from a water film induced by a pair of time-delayed femtosecond laser pulses

Author(s): Hsu, WH (Hsu, Wei-Hung); Masim, FCP (Masim, Frances Camille P.); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: OPTICS EXPRESS **Volume:** 25 **Issue:** 20 **Pages:** 24109-24118 **DOI:** 10.1364/OE.25.024109 **Published Date:** 2017 OCT 2

260 of 458

Title: Optical readout of hydrogen storage in films of Au and Pd

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Shimizu, S (Shimizu, Shogo); Kurihara, K (Kurihara, Keisuke); Hashimoto, Y (Hashimoto, Yoshikazu); Takahashi, H (Takahashi, Hajime); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Okazaki, S (Okazaki, Shinji); Juodkazyte, J (Juodkazyte, Jurga); Iwasa, T (Iwasa, Takeshi); Taketsugu, T (Taketsugu, Tetsuya); Tominaga, Y (Tominaga, Yoriko); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 25 **Issue:** 20 **Pages:** 24081-24092 **DOI:** 10.1364/OE.25.024081 **Published Date:** 2017 OCT 2

261 of 458

Title: Multilevel phase-type diffractive lens embedded in sapphire

Author(s): Li, QK (Li, Qian-Kun); Lu, YM (Lu, Yi-Ming); Hua, JG (Hua, Jian-Guan); Yu, YH (Yu, Yan-Hao); Wang, L (Wang, Lei); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICS LETTERS **Volume:** 42 **Issue:** 19 **Pages:** 3832-3835 **DOI:** 10.1364/OL.42.003832 **Published Date:** 2017 OCT 1

262 of 458

Title: Design concept of a hybrid photo-voltaic/thermal conversion cell for mid-infrared light energy harvester

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Komatsu, R (Komatsu, Ryosuke); Yamamura, T (Yamamura, Takuya); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 7 **Issue:** 10 **Pages:** 3484-3493 **DOI:** 10.1364/OME.7.003484 **Published Date:** 2017 OCT 1

263 of 458

Title: Optical tweezing and binding at high irradiation powers on black-Si

Author(s): Shoji, T (Shoji, Tatsuya); Mototsuji, A (Mototsuji, Ayaka); Balcytis, A (Balcytis, Armandas); Linklater, D (Linklater, Denver); Juodkazis, S (Juodkazis, Saulius); Tsuboi, Y (Tsuboi, Yasuyuki)

Source: SCIENTIFIC REPORTS **Volume:** 7 **Article Number:** 12298 **DOI:** 10.1038/s41598-017-12470-9 **Published Date:** 2017 SEP 26

264 of 458

Title: Comment on "Bactericidal Effects of Natural Nanotopography of Dragonfly Wing on *Escherichia coli*"

Author(s): Linklater, DP (Linklater, Denver P.); Juodkazis, S (Juodkazis, Saulius); Rubanov, S (Rubanov, Sergey); Ivanova, EP (Ivanova, Elena P.)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 9 **Issue:** 35 **Pages:** 29387-29393 **DOI:** 10.1021/acsami.7b05707 **Published Date:** 2017 SEP 7

265 of 458

Title: Two-color pump-probe interferometry of ultra-fast light-matter interaction

Author(s): Hayasaki, Y (Hayasaki, Yoshio); Fukuda, S (Fukuda, Shin-ichi); Hasegawa, S (Hasegawa, Satoshi); Juodkazis, S (Juodkazis, Saulius)

Source: SCIENTIFIC REPORTS **Volume:** 7 **Article Number:** 10405 **DOI:** 10.1038/s41598-017-10709-z **Published Date:** 2017 SEP 4

266 of 458

Title: Hybrid subtractive-additive-welding microfabrication for lab-on-chip applications via single amplified femtosecond laser source

Author(s): Jonusauskas, L (Jonusauskas, Linas); Rekstyte, S (Rekstyte, Sima); Buividas, R (Buividas, Ricardas); Butkus, S (Butkus, Simas); Gadonas, R (Gadonas, Roaldas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: OPTICAL ENGINEERING **Volume:** 56 **Issue:** 9 **Article Number:** 094108 **DOI:** 10.1117/1.OE.56.9.094108 **Published Date:** 2017 SEP

267 of 458

Title: Light-Induced Tuning and Reconfiguration of Nanophotonic Structures

Author(s): Makarov, SV (Makarov, Sergey V.); Zalogina, AS (Zalogina, Anastasia S.); Tajik, M (Tajik, Mohammad); Zuev, DA (Zuev, Dmitry A.); Rybin, MV (Rybin, Mikhail V.); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.); Juodkazis, S (Juodkazis, Saulius); Kivshar, Y (Kivshar, Yuri)

268 of 458

Title: Tipping solutions: emerging 3D nano-fabrication/-imaging technologies

Author(s): Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Reklaitis, I (Reklaitis, Ignas); Chen, F (Chen, Feng); Davis, J (Davis, Jeffrey); David, C (David, Christian); Juodkazis, S (Juodkazis, Saulius)

Source: NANOPHOTONICS **Volume:** 6 **Issue:** 5 **Pages:** 923-941 **DOI:** 10.1515/nanoph-2017-0008 **Published Date:** 2017 SEP

269 of 458

Title: Regeneration of a Grating in PMMA Inscribed by Femtosecond Laser Bessel Beam

Author(s): Watanabe, W (Watanabe, Wataru); Matushiro, Y (Matushiro, Yu); Hatanaka, K (Hatanaka, Koji); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 12 **Issue:** 2 **Pages:** 102-106 **DOI:** 10.2961/jlmn.2017.02.0010 **Published Date:** 2017 SEP

270 of 458

Title: Photoacoustic signal enhancements from gold nano-colloidal suspensions excited by a pair of time-delayed femtosecond pulses

Author(s): Masim, FCP (Masim, Frances Camille P.); Hsu, WH (Hsu, Wei-Hung); Liu, HL (Liu, Hao-Li); Yonezawa, T (Yonezawa, Tetsu); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: OPTICS EXPRESS **Volume:** 25 **Issue:** 16 **Pages:** 19497-19507 **DOI:** 10.1364/OE.25.019497 **Published Date:** 2017 AUG 7

271 of 458

Title: Orientational Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk

Author(s): Ryu, M (Ryu, Meguya); Balcytis, A (Balcytis, Armandas); Wang, XW (Wang, Xuewen); Vongsvivut, J (Vongsvivut, Jitraporn); Hikima, Y (Hikima, Yuta); Li, JL (Li, Jingliang); Tobin, MJ (Tobin, Mark J.); Juodkazis, S (Juodkazis, Saulius); Morikawa, J (Morikawa, Junko)

Source: SCIENTIFIC REPORTS **Volume:** 7 **Article Number:** 7419 **DOI:** 10.1038/s41598-017-07502-3 **Published Date:** 2017 AUG 7

272 of 458

Title: Dendrite-joining of air-gap-separated PMMA substrates using ultrashort laser pulses

Author(s): Mizuguchi, Y (Mizuguchi, Yusuke); Tamaki, T (Tamaki, Takayuki); Fukuda, T (Fukuda, Takashi); Hatanaka, K (Hatanaka, Koji); Juodkazis, S (Juodkazis, Saulius); Watanabe, W (Watanabe, Wataru)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 7 **Issue:** 7 **Pages:** 2141-2149 **DOI:** 10.1364/OME.7.002141 **Published Date:** 2017 JUL 1

273 of 458

Title: Competition between subwavelength and deep-subwavelength structures ablated by ultrashort laser pulses

Author(s): Wang, L (Wang, Lei); Xu, BB (Xu, Bin-Bin); Cao, XW (Cao, Xiao-Wen); Li, QK (Li, Qian-Kun); Tian, WJ (Tian, Wen-Jing); Chen, QD (Chen, Qi-Dai); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: OPTICA **Volume:** 4 **Issue:** 6 **Pages:** 637-642 **DOI:** 10.1364/OPTICA.4.000637 **Published Date:** 2017 JUN 20

274 of 458

Title: Influence of nanoscale topology on bactericidal efficiency of black silicon surfaces

Author(s): Linklater, DP (Linklater, Denver P.); Nguyen, HKD (Huu Khuong Duy Nguyen); Bhadra, CM (Bhadra, Chris M.); Juodkazis, S (Juodkazis, Saulius); Ivanova, EP (Ivanova, Elena P.)

Source: NANOTECHNOLOGY **Volume:** 28 **Issue:** 24 **Article Number:** 245301 **DOI:** 10.1088/1361-6528/aa700e **Published Date:** 2017 JUN 16

275 of 458

Title: Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst

Author(s): Wei, ZS (Wei, Zhishun); Rosa, L (Rosa, Lorenzo); Wang, KL (Wang, Kunlei); Endo, M (Endo, Maya); Juodkazis, S (Juodkazis, Saulius); Ohtani, B (Ohtani, Bunsho); Kowalska, E (Kowalska, Ewa)

Source: APPLIED CATALYSIS B-ENVIRONMENTAL **Volume:** 206 **Pages:** 393-405 **DOI:** 10.1016/j.apcatb.2017.01.043 **Published Date:** 2017 JUN 5

276 of 458

Title: Dielectric geometric phase optical elements fabricated by femtosecond direct laser writing in photoresists

Author(s): Wang, XW (Wang, Xuewen); Kuchmizhak, AA (Kuchmizhak, Aleksandr A.); Brasselet, E (Brasselet, Etienne); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS LETTERS **Volume:** 110 **Issue:** 18 **Article Number:** 181101 **DOI:** 10.1063/1.4982602 **Published Date:** 2017 MAY 1

277 of 458

Title: Regenerated volume gratings in PMMA after femtosecond laser writing

Author(s): Matushiro, Y (Matushiro, Yu); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji); Watanabe, W (Watanabe, Wataru)

Source: OPTICS LETTERS **Volume:** 42 **Issue:** 8 **Pages:** 1632-1635 **DOI:** 10.1364/OL.42.001632 **Published Date:** 2017 APR 15

278 of 458

Title: Silk: Optical Properties over 12.6 Octaves THz-IR-Visible-UV Range

Author(s): Balcytis, A (Balcytis, Armandas); Ryu, M (Ryu, Meguya); Wang, XW (Wang, Xuewen); Novelli, F (Novelli, Fabio); Seniutinas, G (Seniutinas, Gediminas); Du, S (Du, Shan); Wang, XG (Wang, Xungai); Li, JL (Li, Jingliang); Davis, J (Davis, Jeffrey); Appadoo, D (Appadoo, Dominique); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: MATERIALS **Volume:** 10 **Issue:** 4 **Article Number:** 356 **DOI:** 10.3390/ma10040356 **Published Date:** 2017 APR

279 of 458

Title: Enhanced sensitivity and measurement range SOI microring resonator with integrated one-dimensional photonic crystal

Author(s): Vaskevicius, K (Vaskevicius, Konstantinas); Gabalis, M (Gabalis, Martynas); Urbonas, D (Urbonas, Darius); Balcytis, A (Balcytis, Armandas); Petruskevicius, R (Petruskevicius, Raimondas); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS **Volume:** 34 **Issue:** 4 **Pages:** 750-755 **DOI:** 10.1364/JOSAB.34.000750 **Published Date:** 2017 APR 1

280 of 458

Title: Photo-polymerization differences by using nanosecond and picosecond laser pulses

Author(s): Stankevicius, E (Stankevicius, Evaldas); Daugnoraitė, E (Daugnoraitė, Elena); Selskis, A (Selskis, Algirdas); Juodkazis, S (Juodkazis, Saulius); Raciukaitis, G (Raciukaitis, Gediminas)

Source: OPTICS EXPRESS **Volume:** 25 **Issue:** 5 **Pages:** 4819-4830 **DOI:** 10.1364/OE.25.004819 **Published Date:** 2017 MAR 6

281 of 458

Title: Angle-multiplexed optical printing of biomimetic hierarchical 3D textures

Author(s): Abid, MI (Abid, Muhammad Irfan); Wang, L (Wang, Lei); Chen, QD (Chen, Qi-Dai); Wang, XW (Wang, Xue-Wen); Juodkazis, S (Juodkazis, Saulius); Sun, HB (Sun, Hong-Bo)

Source: LASER & PHOTONICS REVIEWS **Volume:** 11 **Issue:** 2 **Article Number:** 1600187 **DOI:** 10.1002/lpor.201600187 **Published Date:** 2017 MAR

282 of 458

Title: Nano-rescaling of gold films on polystyrene: thermal management for SERS

Author(s): Balcytis, A (Balcytis, Armandas); Ryu, M (Ryu, Meguya); Seniutinas, G (Seniutinas, Gediminas); Stoddart, PR (Stoddart, Paul R.); Al Mamun, MA (Al Mamun, Md Abdullah); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: NANOSCALE **Volume:** 9 **Issue:** 2 **Pages:** 690-695 **DOI:** 10.1039/c6nr06904e **Published Date:** 2017 JAN 14

283 of 458

Title: Laser printed nano-gratings: orientation and period peculiarities

Author(s): Stankevicius, V (Stankevicius, Valdemar); Raciukaitis, G (Raciukaitis, Gediminas); Bragheri, F (Bragheri, Francesca); Wang, XW (Wang, Xuewen); Gamaly, EG (Gamaly, Eugene G.); Osellame, R (Osellame, Roberto); Juodkazis, S (Juodkazis, Saulius)

Source: SCIENTIFIC REPORTS **Volume:** 7 **Article Number:** 39989 **DOI:** 10.1038/srep39989 **Published Date:** 2017 JAN 9

284 of 458

Title: Optically Clear and Resilient Free-Form μ -Optics 3D-Printed via Ultrafast Laser Lithography

Author(s): Jonusauskas, L (Jonusauskas, Linas); Gailevicius, D (Gailevicius, Darius); Mikoliunaite, L (Mikoliunaite, Lina); Sakalauskas, D (Sakalauskas, Danas); Sakirzanovas, S (Sakirzanovas, Simas); Juodkazis, S (Juodkazis, Saulius); Malinauskas, M (Malinauskas, Mangirdas)

Source: MATERIALS **Volume:** 10 **Issue:** 1 **Article Number:** 12 **DOI:** 10.3390/ma10010012 **Published Date:** 2017 JAN

285 of 458

Title: Alloy Materials for Plasmonic Refractive Index Sensing

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Hashimoto, Y (Hashimoto, Yoshikazu); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: SENSORS AND MATERIALS **Volume:** 29 **Issue:** 9 **Special Issue:** 1 **Pages:** 1233-1239 **DOI:** 10.18494/SAM.2017.1582 **Published Date:** 2017

286 of 458

Title: Plasmonic Sensor: Towards Parts-per-Billion Level Sensitivity

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Suda, S (Suda, Syunsuke); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius)

Source: SENSORS AND MATERIALS **Volume:** 29 **Issue:** 9 **Special Issue:** 1 **Pages:** 1253-1258 **DOI:** 10.18494/SAM.2017.1580 **Published Date:** 2017

287 of 458

Title: Plasmonic Hydrogen Sensor at Infrared Wavelengths

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Arakawa, T (Arakawa, Taro); Okazaki, S (Okazaki, Shinji); Petruskevicius, R (Petruskevicius, Raimondas)

Source: SENSORS AND MATERIALS **Volume:** 29 **Issue:** 9 **Special Issue:** 1 **Pages:** 1269-1274 **DOI:** 10.18494/SAM.2017.1581 **Published Date:** 2017

288 of 458

Title: Rapid Laser Optical Printing in 3D at a Nanoscale

Author(s): Zukauskas, A (Zukauskas, Albertas); Malinauskas, M (Malinauskas, Mangirdas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Edited by: Stampfl J; Liska R; Ovsianikov A

Source: MULTIPHOTON LITHOGRAPHY: TECHNIQUES, MATERIALS AND APPLICATIONS **Pages:** 3-23 **Published Date:** 2017

289 of 458

Title: Engineering and Localization of Quantum Emitters in Large Hexagonal Boron Nitride Layers

Author(s): Choi, S (Choi, Sumin); Tran, TT (Toan Trong Tran); Elbadawi, C (Elbadawi, Christopher); Lobo, C (Lobo, Charlene); Wang, XW (Wang, Xuewen); Juodkazis, S (Juodkazis, Saulius); Seniutinas, G (Seniutinas, Gediminas); Toth, M (Toth, Milos); Aharonovich, I (Aharonovich, Igor)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 8 **Issue:** 43 **Pages:** 29642-29648 **DOI:** 10.1021/acsami.6b09875 **Published Date:** 2016 NOV 2

290 of 458

Title: Au Nanoplasma as Efficient Hard X-ray Emission Source

Author(s): Masim, FCP (Masim, Frances Camille P.); Porta, M (Porta, Matteo); Hsu, WH (Hsu, Wei-Hung); Nguyen, MT (Mai Thanh Nguyen); Yonezawa, T (Yonezawa, Tetsu); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: ACS PHOTONICS **Volume:** 3 **Issue:** 11 **Pages:** 2184-2190 **DOI:** 10.1021/acsp Photonics.6b00692 **Published Date:** 2016 NOV

291 of 458

Title: Wrinkled axicons: shaping light from cusps

Author(s): Sanchez-Padilla, B (Sanchez-Padilla, Benjamin); Zukauskas, A (Zukauskas, Albertas); Aleksanyan, A (Aleksanyan, Artur); Balcytis, A (Balcytis, Armandas); Malinauskas, M (Malinauskas, Mangirdas); Juodkazis, S (Juodkazis, Saulius); Brasselet, E (Brasselet, Etienne)

Source: OPTICS EXPRESS **Volume:** 24 **Issue:** 21 **Pages:** 24075-24082 **DOI:** 10.1364/OE.24.024075 **Published Date:** 2016 OCT 17

292 of 458

Title: Anti-reflective surfaces: Cascading nano/microstructuring

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Komatsu, R (Komatsu, Ryosuke); Ota, S (Ota, Shunsuke); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius)

Source: APL PHOTONICS **Volume:** 1 **Issue:** 7 **Article Number:** 76104 **DOI:** 10.1063/1.4964851 **Published Date:** 2016 OCT

293 of 458

Title: Laser Structuring for Control of Coupling Between THz Light and Phonon Modes

Author(s): Wang, XW (Wang, Xuewen); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Kasalynas, I (Kasalynas, Irmantas); Jakstas, V (Jakstas, Vytautas); Janonis, V (Janonis, Vytautas); Venckevicius, R (Venckevicius, Rimvydas); Buividas, R (Buividas, Ricardas); Appadoo, D (Appadoo, Dominique); Valusis, G (Valusis, Gintaras); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 11 **Issue:** 3 **Pages:** 377-380 **DOI:** 10.2961/jlmn.2016.03.0017 **Published Date:** 2016 OCT

294 of 458

Title: Femtosecond laser-induced hard X-ray generation in air from a solution flow of Au nano-sphere suspension using an automatic positioning system

Author(s): Hsu, WH (Hsu, Wei-Hung); Masim, FCP (Masim, Frances Camille P.); Porta, M (Porta, Matteo); Nguyen, MT (Mai Thanh Nguyen); Yonezawa, T (Yonezawa, Tetsu); Balocytis, A (Balocytis, Armandas); Wang, XW (Wang, Xuewen); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius); Hatanakai, K (Hatanakai, Koji)

295 of 458

Title: Silk patterns made by direct femtosecond laser writing

Author(s): Maximova, K (Maximova, Ksenia); Wang, XW (Wang, Xuewen); Balcytis, A (Balcytis, Armandas); Fan, LP (Fan, Linpeng); Li, JL (Li, Jingliang); Juodkazis, S (Juodkazis, Saulius)

Source: BIOMICROFLUIDICS **Volume:** 10 **Issue:** 5 **Article Number:** 054101 **DOI:** 10.1063/1.4962294 **Published Date:** 2016 SEP

296 of 458

Title: "Race for the Surface": Eukaryotic Cells Can Win

Author(s): Pham, VTH (Pham, Vy T. H.); Truong, VK (Vi Khanh Truong); Orłowska, A (Orłowska, Anna); Ghanaati, S (Ghanaati, Shahram); Barbeck, M (Barbeck, Mike); Booms, P (Booms, Patrick); Fulcher, A (Fulcher, Alex); Bhadra, CM (Bhadra, Chris M.); Buividas, R (Buividas, Ricardas); Baulin, V (Baulin, Vladimir); Kirkpatrick, CJ (Kirkpatrick, C. James); Doran, P (Doran, Pauline); Mainwaring, DE (Mainwaring, David E.); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: ACS APPLIED MATERIALS & INTERFACES **Volume:** 8 **Issue:** 34 **Pages:** 22025-22031 **DOI:** 10.1021/acsami.6b06415 **Published Date:** 2016 AUG 31

297 of 458

Title: MANUFACTURING 3D printed micro-optics

Author(s): Juodkazis, S (Juodkazis, Saulius)

Source: NATURE PHOTONICS **Volume:** 10 **Issue:** 8 **Pages:** 499-+ **DOI:** 10.1038/nphoton.2016.150 **Published Date:** 2016 AUG

298 of 458

Title: Ultrafast laser processing of materials: from science to industry

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Zukauskas, A (Zukauskas, Albertas); Hasegawa, S (Hasegawa, Satoshi); Hayasaki, Y (Hayasaki, Yoshio); Mizeikis, V (Mizeikis, Vygantas); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius)

Source: LIGHT-SCIENCE & APPLICATIONS **Volume:** 5 **Article Number:** e16133 **DOI:** 10.1038/lsa.2016.133 **Published Date:** 2016 AUG

299 of 458

Title: Nanoscale Precision of 3D Polymerization via Polarization Control

Author(s): Rekstyte, S (Rekstyte, Sima); Jonavicius, T (Jonavicius, Tomas); Gailevicius, D (Gailevicius, Darius); Malinauskas, M (Malinauskas, Mangirdas); Mizeikis, V (Mizeikis, Vygantas); Gamaly, EG (Gamaly, Eugene G.); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 4 **Issue:** 8 **Pages:** 1209-1214 **DOI:** 10.1002/adom.201600155 **Published Date:** 2016 AUG

300 of 458

Title: Solar water splitting: Efficiency discussion

Author(s): Juodkazyte, J (Juodkazyte, Jurga); Seniutinas, G (Seniutinas, Gediminas); Sebek, B (Sebek, Benjaminas); Savickaja, I (Savickaja, Irena); Malinauskas, T (Malinauskas, Tadas); Badokas, K (Badokas, Kazimieras); Juodkazis, K (Juodkazis, Kestutis); Juodkazis, S (Juodkazis, Saulius)

Source: INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 41 **Issue:** 28 **Pages:** 11941-11948 **DOI:** 10.1016/j.ijhydene.2016.05.079 **Published Date:** 2016 JUL 27

301 of 458

Title: MHz-ultrasound generation by chirped femtosecond laser pulses from gold nano-colloidal suspensions

Author(s): Masim, FCP (Masim, Frances Camille P.); Hsu, WH (Hsu, Wei-Hung); Tsai, CH (Tsai, Chih-Hung); Liu, HL (Liu, Hao-Li); Porta, M (Porta, Matteo); Nguyen, MT (Mai Thanh Nguyen); Yonezawa, T (Yonezawa, Tetsu); Balcytis, A (Balcytis, Armandas); Wang, XW (Wang, Xuewen); Juodkazis, S (Juodkazis, Saulius); Hatanaka, K (Hatanaka, Koji)

Source: OPTICS EXPRESS **Volume:** 24 **Issue:** 15 **Pages:** 17050-17059 **DOI:** 10.1364/OE.24.017050 **Published Date:** 2016 JUL 25

302 of 458

Title: Local Photorefractive Modification in Lithium Niobate Using Ultrafast Direct Laser Write Technique

Author(s): Paipulas, D (Paipulas, Domas); Buivydas, R (Buivydas, Ricardas); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 11 **Issue:** 2 **Pages:** 246-252 **DOI:** 10.2961/jlmn.2016.02.0016 **Published Date:** 2016 JUL

303 of 458

Title: Enhanced photoacoustics from gold nano-colloidal suspensions under femtosecond laser excitation

Author(s): Masim, FCP (Masim, Frances Camille P.); Liu, HL (Liu, Hao-Li); Porta, M (Porta, Matteo); Yonezawa, T (Yonezawa, Tetsu); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Hsu, WH (Hsu, Wei-Hung); Hatanaka, K (Hatanaka, Koji)

Source: OPTICS EXPRESS **Volume:** 24 **Issue:** 13 **Pages:** 14781-14792 **DOI:** 10.1364/OE.24.014781 **Published Date:** 2016 JUN 27

304 of 458

Title: Nanostructured Antireflective and Thermoisolative Cicada Wings

Author(s): Morikawa, J (Morikawa, Junko); Ryu, M (Ryu, Meguya); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Maximova, K (Maximova, Ksenia); Wang, XW (Wang, Xuewen); Zamengo, M (Zamengo, Massimiliano); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: LANGMUIR **Volume:** 32 **Issue:** 18 **Pages:** 4698-4703 **DOI:** 10.1021/acs.langmuir.6b00621 **Published Date:** 2016 MAY 10

305 of 458

Title: Ultraviolet-photoelectric effect for augmented contrast and resolution in electron microscopy

Author(s): Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius)

Source: APL PHOTONICS **Volume:** 1 **Issue:** 2 **Article Number:** 21301 **DOI:** 10.1063/1.4945357 **Published Date:** 2016 MAY

306 of 458

Title: Au-Ag-Cu nano-alloys: tailoring of permittivity

Author(s): Hashimoto, Y (Hashimoto, Yoshikazu); Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Juodkazis, S (Juodkazis, Saulius); Nishijima, Y (Nishijima, Yoshiaki)

Source: SCIENTIFIC REPORTS **Volume:** 6 **Article Number:** 25010 **DOI:** 10.1038/srep25010 **Published Date:** 2016 APR 27

307 of 458

Title: Ion beam lithography with gold and silicon ions

Author(s): Seniutinas, G (Seniutinas, Gediminas); Balcytis, A (Balcytis, Armandas); Nishijima, Y (Nishijima, Yoshiaki); Nadzeyka, A (Nadzeyka, Achim); Bauerdick, S (Bauerdick, Sven); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 122 **Issue:** 4 **Article Number:** 383 **DOI:** 10.1007/s00339-016-9866-4 **Published Date:** 2016 APR

308 of 458

Title: Tailoring Orbital Angular Momentum of Light in the Visible Domain with Metallic Metasurfaces

Author(s): Hakobyan, D (Hakobyan, Davit); Magallanes, H (Magallanes, Hernando); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Brasselet, E (Brasselet, Etienne)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 4 **Issue:** 2 **Pages:** 306-312 **DOI:** 10.1002/adom.201500494 **Published Date:** 2016 FEB

309 of 458

Title: Silk fibroin as a water-soluble bio-resist and its thermal properties

Author(s): Morikawa, J (Morikawa, Junko); Ryu, M (Ryu, Meguya); Maximova, K (Maximova, Ksenia); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Fan, LP (Fan, Linpeng); Mizeikis, V (Mizeikis, Vygantas); Li, JL (Li, Jingliang); Wang, XW (Wang, Xuwen); Zamengo, M (Zamengo, Massimiliano); Wang, XG (Wang, Xungai); Juodkazis, S (Juodkazis, Saulius)

Source: RSC ADVANCES **Volume:** 6 **Issue:** 14 **Pages:** 11863-11869 **DOI:** 10.1039/c5ra20201a **Published Date:** 2016

310 of 458

Title: A bactericidal microfluidic device constructed using nano-textured black silicon

Author(s): Wang, XW (Wang, Xuwen); Bhadra, CM (Bhadra, Chris M.); Dang, THY (Thi Hoang Yen Dang); Buividas, R (Buividas, Ricardas); Wang, J (Wang, James); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: RSC ADVANCES **Volume:** 6 **Issue:** 31 **Pages:** 26300-26306 **DOI:** 10.1039/c6ra03864f **Published Date:** 2016

311 of 458

Title: Si-based infrared optical filters

Author(s): Balcytis, A (Balcytis, Armandas); Ryu, M (Ryu, Meguya); Seniutinas, G (Seniutinas, Gediminas); Nishijima, Y (Nishijima, Yoshiaki); Hikima, Y (Hikima, Yuta); Zamengo, M (Zamengo, Massimiliano); Petruskevicius, R (Petruskevicius, Raimondas); Morikawa, J (Morikawa, Junko); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL ENGINEERING **Volume:** 54 **Issue:** 12 **Article Number:** 127103 **DOI:** 10.1117/1.OE.54.12.127103 **Published Date:** 2015 DEC

eISSN: 1560-2303

312 of 458

Title: Plasmonic photo-thermoelectric energy converter with black-Si absorber

Author(s): Komatsu, R (Komatsu, Ryosuke); Balcytis, A (Balcytis, Armandas); Seniutinas, G (Seniutinas, Gediminas); Yamamura, T (Yamamura, Takuya); Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius)

Source: SOLAR ENERGY MATERIALS AND SOLAR CELLS **Volume:** 143 **Pages:** 72-77 **DOI:** 10.1016/j.solmat.2015.06.035 **Published Date:** 2015 DEC

313 of 458

Title: Antibacterial titanium nano-patterned arrays inspired by dragonfly wings

Author(s): Bhadra, CM (Bhadra, Chris M.); Truong, VK (Vi Khanh Truong); Pham, VTH (Pham, Vy T. H.); Al Kobaisi, M (Al Kobaisi, Mohammad); Seniutinas, G (Seniutinas, Gediminas); Wang, JY (Wang, James Y.); Juodkazis, S (Juodkazis, Saulius); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: SCIENTIFIC REPORTS **Volume:** 5 **Article Number:** 16817 **DOI:** 10.1038/srep16817 **Published Date:** 2015 NOV 18

314 of 458

Title: Black silicon as a platform for bacterial detection

Author(s): Hartley, JS (Hartley, Jennifer S.); Hlaing, MM (Hlaing, M. Myintzu); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Stoddart, PR (Stoddart, Paul R.)

Source: BIOMICROFLUIDICS **Volume:** 9 **Issue:** 6 **Article Number:** 061101 **DOI:** 10.1063/1.4934966 **Published Date:** 2015 NOV

315 of 458

Title: Deep-UV fluorescence lifetime imaging microscopy

Author(s): de Jong, CJ (de Jong, Christiaan J.); Lajevardipour, A (Lajevardipour, Alireza); Gecevicius, M (Gecevicius, Mindaugas); Beresna, M (Beresna, Martynas); Gervinskas, G (Gervinskas, Gediminas); Kazansky, PG (Kazansky, Peter G.); Bellouard, Y (Bellouard, Yves); Clayton, AHA (Clayton, Andrew H. A.); Juodkazis, S (Juodkazis, Saulius)

Source: PHOTONICS RESEARCH **Volume:** 3 **Issue:** 5 **Pages:** 283-288 **DOI:** 10.1364/PRJ.3.000283 **Published Date:** 2015 OCT 1

316 of 458

Title: Statistically quantified measurement of an Alzheimer's marker by surface-enhanced Raman scattering

Author(s): Buividas, R (Buividas, Ricardas); Dzingelelevicius, N (Dzingelelevicius, Nerijus); Kubiliute, R (Kubiliute, Reda); Stoddart, PR (Stoddart, Paul R.); Truong, VK (Vi Khanh Truong); Ivanova, EP (Ivanova, Elena P.); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF BIOPHOTONICS **Volume:** 8 **Issue:** 7 **Pages:** 567-574 **DOI:** 10.1002/jbio.201400017 **Published Date:** 2015 JUL

317 of 458

Title: Ultra-wide free spectral range, enhanced sensitivity, and removed mode splitting SOI optical ring resonator with dispersive metal nanodisks

Author(s): Urbonas, D (Urbonas, Darius); Balcytis, A (Balcytis, Armandas); Gabalis, M (Gabalis, Martynas); Vaskevicius, K (Vaskevicius, Konstantinas); Naujokaite, G (Naujokaite, Greta); Juodkazis, S (Juodkazis, Saulius); Petruskevicius, R (Petruskevicius, Raimondas)

Source: OPTICS LETTERS **Volume:** 40 **Issue:** 13 **Pages:** 2977-2980 **DOI:** 10.1364/OL.40.002977 **Published Date:** 2015 JUL 1

318 of 458

Title: Versatile SERS sensing based on black silicon

Author(s): Seniutinas, G (Seniutinas, Gediminas); Gervinskas, G (Gervinskas, Gediminas); Verma, R (Verma, Roli); Gupta, BD (Gupta, Banshi D.); Lapierre, F (Lapierre, Florian); Stoddart, PR (Stoddart, Paul R.); Clark, F (Clark, Felix); McArthur, SL (McArthur, Sally L.); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 23 **Issue:** 5 **Pages:** 6763-6772 **DOI:** 10.1364/OE.23.006763 **Published Date:** 2015 MAR 9

319 of 458

Title: Plasmonic color analysis of Ag-coated black-Si SERS substrate

Author(s): Asiala, SM (Asiala, Steven M.); Marr, JM (Marr, James M.); Gervinskas, G (Gervinskas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Schultz, ZD (Schultz, Zachary D.)

Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 17 **Issue:** 45 **Pages:** 30461-30467 **DOI:** 10.1039/c5cp04506a **Published Date:** 2015

320 of 458

Title: Optical characterization and lasing in three-dimensional opal-structures

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Juodkazis, S (Juodkazis, Saulius)

Source: FRONTIERS IN MATERIALS **Volume:** 2 **Article Number:** 49 **DOI:** 10.3389/fmats.2015.00049 **Published Date:** 2015

321 of 458

Title: 3D Microporous Scaffolds Manufactured via Combination of Fused Filament Fabrication and Direct Laser Writing Ablation

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Rekstyte, S (Rekstyte, Sima); Lukosevicius, L (Lukosevicius, Laurynas); Butkus, S (Butkus, Simas); Balciunas, E (Balciunas, Evaldas); Peciukaityte, M (Peciukaityte, Milda); Baltriukiene, D (Baltriukiene, Daiva); Bukelskiene, V (Bukelskiene, Virginija); Butkevicius, A (Butkevicius, Arunas); Kucevicius, P (Kucevicius, Povilas); Rutkunas, V (Rutkunas, Vygandas); Juodkazis, S (Juodkazis, Saulius)

322 of 458

Title: Composite Au-on-SiC nanorods for sensing

Author(s): Demydenko, Y (Demydenko, Yuri); Juodkazis, S (Juodkazis, Saulius); Lozovski, V (Lozovski, Valeri)

Source: JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS **Volume:** 31 **Issue:** 11 **Pages:** 2893-2900 **DOI:** 10.1364/JOSAB.31.002893 **Published Date:** 2014 NOV

323 of 458

Title: In_xGa_{1-x}N performance as a band-gap-tunable photo-electrode in acidic and basic solutions

Author(s): Juodkazyte, J (Juodkazyte, Jurga); Sebekas, B (Sebekas, Benjaminas); Sayickaja, I (Sayickaja, Irena); Kadys, A (Kadys, Arunas); Jelmakas, E (Jelmakas, Edgaras); Grinys, T (Grinys, Tomas); Juodkazis, S (Juodkazis, Saulius); Juodkazis, K (Juodkazis, Kestutis); Malinauskas, T (Malinauskas, Tadas)

Source: SOLAR ENERGY MATERIALS AND SOLAR CELLS **Volume:** 130 **Special Issue:** SI **Pages:** 36-41 **DOI:** 10.1016/j.solmat.2014.06.033 **Published Date:** 2014 NOV

324 of 458

Title: Engineering gold alloys for plasmonics

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Hashimoto, Y (Hashimoto, Yoshikazu); Seniutinas, G (Seniutinas, Gediminas); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 117 **Issue:** 2 **Pages:** 641-645 **DOI:** 10.1007/s00339-014-8716-5 **Published Date:** 2014 NOV

325 of 458

Title: SERS scaling rules

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Hashimoto, Y (Hashimoto, Yoshikazu); Rosa, L (Rosa, Lorenzo); Khurgin, JB (Khurgin, Jacob B.); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 117 **Issue:** 2 **Pages:** 647-650 **DOI:** 10.1007/s00339-014-8717-4 **Published Date:** 2014 NOV

326 of 458

Title: THz photomixer with milled nanoelectrodes on LT-GaAs

Author(s): Seniutinas, G (Seniutinas, Gediminas); Gervinskas, G (Gervinskas, Gediminas); Constable, E (Constable, Evan); Krotkus, A (Krotkus, Arunas); Molis, G (Molis, Gediminas); Valusis, G (Valusis, Gintaras); Lewis, RA (Lewis, Roger A.); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 117 **Issue:** 2 **Pages:** 439-444 **DOI:** 10.1007/s00339-014-8685-8 **Published Date:** 2014 NOV

327 of 458

Title: Tunable Raman Selectivity via Randomization of a Rectangular Pattern of Nanodisks

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Khurgin, JB (Khurgin, Jacob B.); Rosa, L (Rosa, Lorenzo); Fujiwara, H (Fujiwara, Hideki); Juodkazis, S (Juodkazis, Saulius)

Source: ACS PHOTONICS **Volume:** 1 **Issue:** 10 **Pages:** 1006-1012 **DOI:** 10.1021/ph500228s **Published Date:** 2014 OCT

328 of 458

Title: Phase Transformation in Laser-Induced Micro-Explosion in Olivine (Fe,Mg)₂SiO₄

Author(s): Buividas, R (Buividas, Ricardas); Gervinskas, G (Gervinskas, Gediminas); Tadich, A (Tadich, Anton); Cowie, BCC (Cowie, Bruce C. C.); Mizeikis, V (Mizeikis, Vygantas); Vailionis, A (Vailionis, Arturas); de Ligny, D (de Ligny, Dominique); Gamaly, EG (Gamaly, Eugene G.); Rode, AV (Rode, Andrei V.); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED ENGINEERING MATERIALS **Volume:** 16 **Issue:** 6 **Special Issue:** SI **Pages:** 767-773 **DOI:** 10.1002/adem.201400091 **Published Date:** 2014 JUN

eISSN: 1527-2648

329 of 458

Title: Surface and bulk structuring of materials by ripples with long and short laser pulses: Recent advances

Author(s): Buividas, R (Buividas, Riocardas); Mikutis, M (Mikutis, Mindaugas); Juodkazis, S (Juodkazis, Saulius)

Source: PROGRESS IN QUANTUM ELECTRONICS **Volume:** 38 **Issue:** 3 **Pages:** 119-156 **DOI:** 10.1016/j.pquantelec.2014.03.002 **Published Date:** 2014 MAY

330 of 458

Title: Long-range interaction of localized surface plasmons in periodic and random patterns of Au nanoparticles

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 115 **Issue:** 2 **Pages:** 409-414 **DOI:** 10.1007/s00339-013-8057-9 **Published Date:** 2014 MAY

331 of 458

Title: Scaling Rules of SERS Intensity

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Hashimoto, Y (Hashimoto, Yoshikazu); Rosa, L (Rosa, Lorenzo); Khurgin, JB (Khurgin, Jacob B.); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 2 **Issue:** 4 **Pages:** 382-388 **DOI:** 10.1002/adom.201300493 **Published Date:** 2014 APR

332 of 458

Title: Realization of Structural Color by Direct Laser Write Technique in Photoresist

Author(s): Mizeikis, V (Mizeikis, Vygtantas); Purlys, V (Purlys, Vytautas); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius)
Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 9 **Issue:** 1 **DOI:** 10.2961/jlmn.2014.01.0009 **Published Date:** 2014 MAR

333 of 458

Title: Reversible hydrogen evolution and oxidation on Pt electrode mediated by molecular ion

Author(s): Juodkazis, K (Juodkazis, Kestutis); Juodkazyte, J (Juodkazyte, Jurga); Sebek, B (Sebek, Benjaminas); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 290 **Pages:** 13-17 **DOI:** 10.1016/j.apsusc.2013.10.164 **Published Date:** 2014 JAN 30

334 of 458

Title: Novel method to determine the actual surface area of a laser-nanotextured sensor

Author(s): Buividas, R (Buividas, Ricardas); Fahim, N (Fahim, Narges); Juodkazyte, J (Juodkazyte, Jurga); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 114 **Issue:** 1 **Special Issue:** SI **Pages:** 169-175 **DOI:** 10.1007/s00339-013-8129-x **Published Date:** 2014 JAN

335 of 458

Title: Trace vapour detection at room temperature using Raman spectroscopy

Author(s): Chou, A (Chou, Alison); Radi, B (Radi, Babak); Jaatinen, E (Jaatinen, Esa); Juodkazis, S (Juodkazis, Saulius); Fredericks, PM (Fredericks, Peter M.)

Source: ANALYST **Volume:** 139 **Issue:** 8 **Pages:** 1960-1966 **DOI:** 10.1039/c3an01522j **Published Date:** 2014

336 of 458

Title: Nanotopography as a trigger for the microscale, autogenous and passive lysis of erythrocytes

Author(s): Pham, VTH (Pham, Vy T. H.); Truong, VK (Vi Khanh Truong); Mainwaring, DE (Mainwaring, David E.); Guo, YC (Guo, Yachong); Baulin, VA (Baulin, Vladimir A.); Al Kobaisi, M (Al Kobaisi, Mohammad); Gervinskas, G (Gervinskas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Zeng, WR (Zeng, Wendy R.); Doran, PP (Doran, Pauline P.); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: JOURNAL OF MATERIALS CHEMISTRY B **Volume:** 2 **Issue:** 19 **Pages:** 2819-2826 **DOI:** 10.1039/c4tb00239c **Published Date:** 2014

337 of 458

Title: Surface-enhanced Raman scattering sensing on black silicon

Author(s): Gervinskas, G (Gervinskas, Gediminas); Seniutinas, G (Seniutinas, Gediminas); Hartley, JS (Hartley, Jennifer S.); Kandasamy, S (Kandasamy, Sasikaran); Stoddart, PR (Stoddart, Paul R.); Fahim, NF (Fahim, Narges F.); Juodkazis, S (Juodkazis, Saulius)

Source: ANNALEN DER PHYSIK **Volume:** 525 **Issue:** 12 **Pages:** 907-914 **DOI:** 10.1002/andp.201300035 **Published Date:** 2013 DEC

338 of 458

Title: Optical fibers for miniaturized surface-enhanced Raman-scattering probes

Author(s): Hartley, JS (Hartley, Jennifer S.); Juodkazis, S (Juodkazis, Saulius); Stoddart, PR (Stoddart, Paul R.)

Source: APPLIED OPTICS **Volume:** 52 **Issue:** 34 **Pages:** 8388-8393 **DOI:** 10.1364/AO.52.008388 **Published Date:** 2013 DEC 1

339 of 458

Title: Ultrafast laser nanostructuring of photopolymers: A decade of advances

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Farsari, M (Farsari, Maria); Piskarskas, A (Piskarskas, Algis); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS

LETTERS **Volume:** 533 **Issue:** 1 **Pages:** 1-31 **DOI:**

10.1016/j.physrep.2013.07.005 **Published Date:** 2013 DEC 1

340 of 458

Title: Topological Shaping of Light by Closed-Path Nanoslits

Author(s): Brasselet, E (Brasselet, Etienne); Gervinskas, G (Gervinskas, Gediminas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICAL REVIEW LETTERS **Volume:** 111 **Issue:** 19 **Article Number:** 193901 **DOI:** 10.1103/PhysRevLett.111.193901 **Published Date:** 2013 NOV 5

341 of 458

Title: Control of surface charge for high-fidelity nanostructuring of materials

Author(s): Gervinskas, G (Gervinskas, Gediminas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius)

Source: LASER & PHOTONICS REVIEWS **Volume:** 7 **Issue:** 6 **Pages:** 1049-1053 **DOI:** 10.1002/lpor.201300093 **Published Date:** 2013 NOV

342 of 458

Title: Bactericidal activity of black silicon

Author(s): Ivanova, EP (Ivanova, Elena P.); Hasan, J (Hasan, Jafar); Webb, HK (Webb, Hayden K.); Gervinskas, G (Gervinskas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Truong, VK (Vi Khanh Truong); Wu, AHF (Wu, Alex H. F.); Lamb, RN (Lamb, Robert N.); Baulin, VA (Baulin, Vladimir A.); Watson, GS (Watson, Gregory S.); Watson, JA (Watson, Jolanta A.); Mainwaring, DE (Mainwaring, David E.); Crawford, RJ (Crawford, Russell J.)

Source: NATURE COMMUNICATIONS **Volume:** 4 **Article Number:** 2838 **DOI:** 10.1038/ncomms3838 **Published Date:** 2013 NOV

343 of 458

Title: High 90% efficiency Bragg gratings formed in fused silica by femtosecond Gauss-Bessel laser beams

Author(s): Mikutis, M (Mikutis, Mindaugas); Kudrius, T (Kudrius, Tadas); Sleky, G (Sleky, Gintas); Paipulas, D (Paipulas, Domas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 3 **Issue:** 11 **Pages:** 1862-1871 **DOI:** 10.1364/OME.3.001862 **Published Date:** 2013 NOV 1

344 of 458

Title: Nano-groove and 3D fabrication by controlled avalanche using femtosecond laser pulses

Author(s): Buividas, R (Buividas, Ricardas); Rekstyte, S (Rekstyte, Sima); Malinauskas, M (Malinauskas, Mangirdas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 3 **Issue:** 10 **Pages:** 1674-1686 **DOI:** 10.1364/OME.3.001674 **Published Date:** 2013 OCT 1

345 of 458

Title: 3D nano-structures for laser nano-manipulation

Author(s): Seniutinas, G (Seniutinas, Gediminas); Rosa, L (Rosa, Lorenzo); Gervinskas, G (Gervinskas, Gediminas); Brasselet, E (Brasselet, Etienne); Juodkazis, S (Juodkazis, Saulius)

Source: BEILSTEIN JOURNAL OF NANOTECHNOLOGY **Volume:** 4 **Pages:** 534-541 **DOI:** 10.3762/bjnano.4.62 **Published Date:** 2013 SEP 17

346 of 458

Title: Additional Enhancement of Electric Field in Surface-Enhanced Raman Scattering due to Fresnel Mechanism

Author(s): Jayawardhana, S (Jayawardhana, Sasani); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius); Stoddart, PR (Stoddart, Paul R.)

Source: SCIENTIFIC REPORTS **Volume:** 3 **Article Number:** 2335 **DOI:** 10.1038/srep02335 **Published Date:** 2013 AUG 1

347 of 458

Title: Photoelectrochemistry of silicon in HF solution

Author(s): Juodkazis, K (Juodkazis, Kestutis); Juodkazyte, J (Juodkazyte, Jurga); Sebek, B (Sebek, Benjaminas); Savickaja, I (Savickaja, Irena); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF SOLID STATE ELECTROCHEMISTRY **Volume:** 17 **Issue:** 8 **Pages:** 2269-2276 **DOI:** 10.1007/s10008-013-2064-9 **Published Date:** 2013 AUG

348 of 458

Title: Three-dimensional laser micro-sculpturing of silicone: towards bio-compatible scaffolds

Author(s): Rekstyte, S (Rekstyte, Sima); Malinauskas, M (Malinauskas, Mangirdas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 21 **Issue:** 14 **Pages:** 17028-17041 **DOI:** 10.1364/OE.21.017028 **Published Date:** 2013 JUL 15

349 of 458

Title: Augmented sensitivity of an IR-absorption gas sensor employing a metal hole array

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Adachi, Y (Adachi, Yuta); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 3 **Issue:** 7 **DOI:** 10.1364/OME.3.000968 **Published Date:** 2013 JUL 1

350 of 458

Title: Randomization of gold nano-brick arrays: a tool for SERS enhancement

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Khurgin, JB (Khurgin, Jacob B.); Rosa, L (Rosa, Lorenzo); Fujiwara, H (Fujiwara, Hideki); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 21 **Issue:** 11 **Pages:** 13502-13514 **DOI:** 10.1364/OE.21.013502 **Published Date:** 2013 JUN 3

351 of 458

Title: Arrays of Arbitrarily Shaped Nanoparticles: Overlay-Errorless Direct Ion Write

Author(s): Gervinskas, G (Gervinskas, Gediminas); Seniutinas, G (Seniutinas, Gediminas); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: ADVANCED OPTICAL MATERIALS **Volume:** 1 **Issue:** 6 **Pages:** 456-459 **DOI:** 10.1002/adom.201300027 **Published Date:** 2013 JUN

352 of 458

Title: High-spatial-resolution mapping of superhydro-phobic cicada wing surface chemistry using infrared microspectroscopy and infrared imaging at two synchrotron beamlines

Author(s): Tobin, MJ (Tobin, Mark J.); Puskar, L (Puskar, Ljiljana); Hasan, J (Hasan, Jafar); Webb, HK (Webb, Hayden K.); Hirschmugl, CJ (Hirschmugl, Carol J.); Nasse, MJ (Nasse, Michael J.); Gervinskas, G (Gervinskas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Watson, GS (Watson, Gregory S.); Watson, JA (Watson, Jolanta A.); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: JOURNAL OF SYNCHROTRON RADIATION **Volume:** 20 **Pages:** 482-489 **DOI:** 10.1107/S0909049513004056 **Published Date:** 2013 MAY **Part:** 3

353 of 458

Title: Black silicon: substrate for laser 3D micro/nano-polymerization

Author(s): Zukauskas, A (Zukauskas, Albertas); Malinauskas, M (Malinauskas, Mangirdas); Kadys, A (Kadys, Arunas); Gervinskas, G (Gervinskas, Gediminas); Seniutinas, G (Seniutinas, Gediminas); Kandasamy, S (Kandasamy, Sasikaran); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 21 **Issue:** 6 **Pages:** 6901-6909 **DOI:** 10.1364/OE.21.006901 **Published Date:** 2013 MAR 25

354 of 458

Title: Ultra-pure, water-dispersed Au nanoparticles produced by femtosecond laser ablation and fragmentation

Author(s): Kubiliute, R (Kubiliute, Reda); Maximova, KA (Maximova, Ksenia A.); Lajevardipour, A (Lajevardipour, Alireza); Yong, J (Yong, Jiawey); Hartley, JS (Hartley, Jennifer S.); Mohsin, ASM (Mohsin, Abu S. M.); Blandin, P (Blandin, Pierre); Chon, JWM (Chon, James W. M.); Sentis, M (Sentis, Marc); Stoddart, PR (Stoddart, Paul R.); Kabashin, A (Kabashin, Andrei); Rotomskis, R (Rotomskis, Ricardas); Clayton, AHA (Clayton, Andrew H. A.); Juodkazis, S (Juodkazis, Saulius)

355 of 458

Title: Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings

Author(s): Hasan, J (Hasan, Jafar); Webb, HK (Webb, Hayden K.); Truong, VK (Vi Khanh Truong); Watson, GS (Watson, Gregory S.); Watson, JA (Watson, Jolanta A.); Tobin, MJ (Tobin, Mark J.); Gervinskas, G (Gervinskas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Wang, JY (Wang, James Y.); Crawford, RJ (Crawford, Russell J.); Ivanova, EP (Ivanova, Elena P.)

Source: LANGMUIR **Volume:** 28 **Issue:** 50 **Pages:** 17404-17409 **DOI:** 10.1021/la303560w **Published Date:** 2012 DEC 18

356 of 458

Title: Laser fabricated ripple substrates for surface-enhanced Raman scattering

Author(s): Buividas, R (Buividas, Ricardas); Stoddart, PR (Stoddart, Paul R.); Juodkazis, S (Juodkazis, Saulius)

Source: ANNALEN DER PHYSIK **Volume:** 524 **Issue:** 11 **Pages:** L5-L10 **DOI:** 10.1002/andp.201200140 **Published Date:** 2012 NOV

357 of 458

Title: Direct Laser Writing: Versatile Tool for Microfabrication of Lithium Niobate

Author(s): Mizeikis, V (Mizeikis, Vygantas); Purlys, V (Purlys, Vytautas); Paipulas, D (Paipulas, Domas); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 7 **Issue:** 3 **Pages:** 345-350 **DOI:** 10.2961/jlmn.2012.03.0020 **Published Date:** 2012 NOV

358 of 458

Title: Selective enhancement of infrared absorption with metal hole arrays

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Nigorinuma, H (Nigorinuma, Hiroki); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 2 **Issue:** 10 **Pages:** 1367-1377 **Published Date:** 2012 OCT 1

359 of 458

Title: Highly selective trapping of enteropathogenic *E. coli* on Fabry-Perot sensor mirrors

Author(s): Ivanova, EP (Ivanova, Elena P.); Truong, VK (Vi Khanh Truong); Gervinskas, G (Gervinskas, Gediminas); Mitik-Dineva, N (Mitik-Dineva, Natasa); Day, D (Day, Daniel); Jones, RT (Jones, Robert T.); Crawford, RJ (Crawford, Russell J.); Juodkazis, S (Juodkazis, Saulius)

Source: BIOSENSORS & BIOELECTRONICS **Volume:** 35 **Issue:** 1 **Pages:** 369-375 **DOI:** 10.1016/j.bios.2012.03.019 **Published Date:** 2012 MAY 15

360 of 458

Title: Surface plasmon resonances in periodic and random patterns of gold nano-disks for broadband light harvesting

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 20 **Issue:** 10 **Pages:** 11466-11477 **DOI:** 10.1364/OE.20.011466 **Published Date:** 2012 MAY 7

361 of 458

Title: Photo-acoustic sub-micrometer modifications of glass by pair of femtosecond laser pulses

Author(s): Hayasaki, Y (Hayasaki, Yoshio); Isaka, M (Isaka, Mitsuhiro); Takita, A (Takita, Akihiro); Hasegawa, S (Hasegawa, Satoshi); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 2 **Issue:** 5 **Pages:** 691-699 **Published Date:** 2012 MAY 1

362 of 458

Title: Optofluidic Fabry-Perot sensor for water solutions at high flow rates

Author(s): Gervinskas, G (Gervinskas, Gediminas); Day, DJ (Day, Daniel J.); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 2 **Issue:** 3 **Pages:** 279-286 **DOI:** 10.1364/OME.2.000279 **Published Date:** 2012 MAR 1

363 of 458

Title: SERS substrate for detection of explosives

Author(s): Chou, A (Chou, Alison); Jaatinen, E (Jaatinen, Esa); Buividas, R (Buividas, Ricardas); Seniutinas, G (Seniutinas, Gediminas); Juodkazis, S (Juodkazis, Saulius); Izake, EL (Izake, Emad L.); Fredericks, PM (Fredericks, Peter M.)

Source: NANOSCALE **Volume:** 4 **Issue:** 23 **Pages:** 7419-7424 **DOI:** 10.1039/c2nr32409a **Published Date:** 2012

364 of 458

Title: Writing 3D patterns of microvessels

Author(s): Juodkazis, S (Juodkazis, Saulius)

Source: INTERNATIONAL JOURNAL OF NANOMEDICINE **Volume:** 7 **Pages:** 3701-3702 **DOI:** 10.2147/IJN.S33636 **Published Date:** 2012

365 of 458

Title: Time-resolved axial-view of the dielectric breakdown under tight focusing in glass

Author(s): Hayasaki, Y (Hayasaki, Yoshio); Iwata, K (Iwata, Keisuke); Hasegawa, S (Hasegawa, Satoshi); Takita, A (Takita, Akihiro); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 1 **Issue:** 8 **Pages:** 1399-1408 **DOI:** 10.1364/OME.1.001399 **Published Date:** 2011 DEC 1

366 of 458

Title: High-precision interferometric monitoring of polymer swelling using a simple optofluidic sensor

Author(s): Gervinskas, G (Gervinskas, Gediminas); Day, D (Day, Daniel); Juodkazis, S (Juodkazis, Saulius)
Source: SENSORS AND ACTUATORS B-CHEMICAL **Volume:** 159 **Issue:** 1 **Pages:** 39-43 **DOI:** 10.1016/j.snb.2011.06.021 **Published Date:** 2011 NOV 28

367 of 458

Title: Hydrogen species within the metals: Role of molecular hydrogen ion H_2^{+}

Author(s): Juodkazis, K (Juodkazis, Kestutis); Juodkazyte, J (Juodkazyte, Jurga); Griguceviciene, A (Griguceviciene, Asta); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 258 **Issue:** 2 **Pages:** 743-747 **DOI:** 10.1016/j.apsusc.2011.08.054 **Published Date:** 2011 NOV 1

368 of 458

Title: FDTD modeling to enhance the performance of an organic solar cell embedded with gold nanoparticles

Author(s): Poh, CH (Poh, Chung-How); Rosa, L (Rosa, Lorenzo); Juodkazis, S (Juodkazis, Saulius); Dastoor, P (Dastoor, Paul)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 1 **Issue:** 7 **Pages:** 1326-1331 **Published Date:** 2011 NOV 1

369 of 458

Title: Thermal imaging of a heat transport in regions structured by femtosecond laser

Author(s): Morikawa, J (Morikawa, Junko); Hayakawa, E (Hayakawa, Eita); Hashimoto, T (Hashimoto, Toshimasa); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 19 **Issue:** 21 **Pages:** 20542-20550 **DOI:** 10.1364/OE.19.020542 **Published Date:** 2011 OCT 10

370 of 458

Title: Observation of O_2 inside voids formed in GeO_2 glass by tightly-focused fs-laser pulses

Author(s): Bressel, L (Bressel, Lena); de Ligny, D (de Ligny, Dominique); Gamaly, EG (Gamaly, Eugene G.); Rode, AV (Rode, Andrei V.); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 1 **Issue:** 6 **Pages:** 1150-1157 **DOI:** 10.1364/OME.1.001150 **Published Date:** 2011 OCT 1

371 of 458

Title: Synthesis of high-pressure phases of silica by laser-induced optical breakdown

Author(s): Mizeikis, V (Mizeikis, Vygantas); Kohara, S (Kohara, Shinji); Onishi, Y (Onishi, Yasuo); Hirao, N (Hirao, Norihisa); Saito, A (Saito, Akira); Vailionis, A (Vailionis, Arturas); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 104 **Issue:** 3 **Pages:** 903-906 **DOI:** 10.1007/s00339-011-6437-6 **Published Date:** 2011 SEP

372 of 458

Title: Femtosecond laser induced density changes in GeO₂ and SiO₂ glasses: fictive temperature effect [Invited]

Author(s): Bressel, L (Bressel, Lena); de Ligny, D (de Ligny, Dominique); Sonnevile, C (Sonneville, Camille); Martinez, V (Martinez, Valerie); Mizeikis, V (Mizeikis, Vygantas); Buividas, R (Buividas, Ricardas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICAL MATERIALS EXPRESS **Volume:** 1 **Issue:** 4 **Pages:** 605-613 **DOI:** 10.1364/OME.1.000605 **Published Date:** 2011 AUG 1

373 of 458

Title: Photonic crystals approach visible-light functionality

Author(s): Juodkazis, S (Juodkazis, Saulius); John, S (John, Sajeev)

Source: LASER FOCUS WORLD **Volume:** 47 **Issue:** 8 **Pages:** 59-62 **Published Date:** 2011 AUG

374 of 458

Title: Evidence of superdense aluminium synthesized by ultrafast microexplosion

Author(s): Vailionis, A (Vailionis, Arturas); Gamaly, EG (Gamaly, Eugene G.); Mizeikis, V (Mizeikis, Vygantas); Yang, WG (Yang, Wenge); Rode, AV (Rode, Andrei V.); Juodkazis, S (Juodkazis, Saulius)

Source: NATURE COMMUNICATIONS **Volume:** 2 **Article Number:** 445 **DOI:** 10.1038/ncomms1449 **Published Date:** 2011 AUG

375 of 458

Title: Laser-induced structural changes in pure GeO₂ glasses

Author(s): Bressel, L (Bressel, Lena); de Ligny, D (de Ligny, Dominique); Sonnevile, C (Sonneville, Camille); Martinez-Andrieux, V (Martinez-Andrieux, Valerie); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF NON-CRYSTALLINE SOLIDS **Volume:** 357 **Issue:** 14 **Special Issue:** SI **Pages:** 2637-2640 **DOI:** 10.1016/j.jnoncrysol.2011.03.014 **Published Date:** 2011 JUL 1

376 of 458

Title: Sierpinski fractal plasmonic nanoantennas

Author(s): Rosa, L (Rosa, Lorenzo); Sun, K (Sun, Kai); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 5 **Issue:** 5-6 **Pages:** 175-177 **DOI:** 10.1002/pssr.201105136 **Published Date:** 2011 JUN

377 of 458

Title: 3D-Tailored Gold Nanoparticles for Light Field Enhancement and Harvesting over Visible-IR Spectral Range

Author(s): Rosa, L (Rosa, Lorenzo); Sun, K (Sun, Kai); Mizeikis, V (Mizeikis, Vygantas); Bauerdick, S (Bauerdick, Sven); Peto, L (Peto, Lloyd); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 115 **Issue:** 13 **Pages:** 5251-5256 **DOI:** 10.1021/jp109099m **Published Date:** 2011 APR 7

378 of 458

Title: Structural Characterization of Femtosecond Laser Modified Regions Inside Sapphire

Author(s): Juodkazis, S (Juodkazis, Saulius); Kohara, S (Kohara, Shinji); Ohishi, Y (Ohishi, Yasuo); Hirao, N (Hirao, Norihisa); Vailionis, A (Vailionis, Arturas); Mizeikis, V (Mizeikis, Vygantas); Saito, A (Saito, Akira); Rode, A (Rode, Andrei)

Source: JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY **Volume:** 11 **Issue:** 4 **Pages:** 2931-2936 **DOI:** 10.1166/jnn.2011.3919 **Published Date:** 2011 APR

379 of 458

Title: Resonant Localization, Enhancement, and Polarization of Optical Fields in Nano-Scale Interface Regions for Photo-Catalytic Applications

Author(s): Mizeikis, V (Mizeikis, Vygantas); Kowalska, E (Kowalska, Ewa); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY **Volume:** 11 **Issue:** 4 **Pages:** 2814-2822 **DOI:** 10.1166/jnn.2011.3920 **Published Date:** 2011 APR

380 of 458

Title: Influence of ordering change on the optical and thermal properties of inflation polyethylene films

Author(s): Morikawa, J (Morikawa, Junko); Orie, A (Orie, Akihiro); Hikima, Y (Hikima, Yuta); Hashimoto, T (Hashimoto, Toshimasa); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 257 **Issue:** 12 **Pages:** 5439-5442 **DOI:** 10.1016/j.apsusc.2010.11.109 **Published Date:** 2011 APR 1

381 of 458

Title: Numerical Analysis on the Optical Role of Nano-Randomness on the *Morpho* Butterfly's Scale

Author(s): Saito, A (Saito, Akira); Yonezawa, M (Yonezawa, Masaru); Murase, J (Murase, Junichi); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Akai-Kasaya, M (Akai-Kasaya, Megumi); Kuwahara, Y (Kuwahara, Yuji)

Source: JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY **Volume:** 11 **Issue:** 4 **Pages:** 2785-2792 **DOI:** 10.1166/jnn.2011.3906 **Published Date:** 2011 APR

382 of 458

Title: Time-resolved interferometry of femtosecond-laser-induced processes under tight focusing and close-to-optical breakdown inside borosilicate glass

Author(s): Hayasaki, Y (Hayasaki, Yoshio); Isaka, M (Isaka, Mitsuhiro); Takita, A (Takita, Akihiro); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 19 **Issue:** 7 **Pages:** 5725-5734 **DOI:** 10.1364/OE.19.005725 **Published Date:** 2011 MAR 28

383 of 458

Title: Sculpturing of photonic crystals by ion beam lithography: towards complete photonic bandgap at visible wavelengths

Author(s): Juodkazis, S (Juodkazis, Saulius); Rosa, L (Rosa, Lorenzo); Bauerdick, S (Bauerdick, Sven); Peto, L (Peto, Lloyd); El-Ganainy, R (El-Ganainy, Ramy); John, S (John, Sajeev)

Source: OPTICS EXPRESS **Volume:** 19 **Issue:** 7 **Pages:** 5802-5810 **DOI:** 10.1364/OE.19.005802 **Published Date:** 2011 MAR 28

384 of 458

Title: Three-dimensional micro-/nano-structuring via direct write polymerization with picosecond laser pulses

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Danilevicius, P (Danilevicius, Paulius); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 19 **Issue:** 6 **Pages:** 5602-5610 **DOI:** 10.1364/OE.19.005602 **Published Date:** 2011 MAR 14

385 of 458

Title: Mechanism of fine ripple formation on surfaces of (semi)transparent materials via a half-wavelength cavity feedback

Author(s): Buividas, R (Buividas, Ricardas); Rosa, L (Rosa, Lorenzo); Sliupas, R (Sliupas, Remigijus); Kudrius, T (Kudrius, Tadas); Sleky, G (Sleky, Gintas); Datsyuk, V (Datsyuk, Vitaly); Juodkazis, S (Juodkazis, Saulius)

Source: NANOTECHNOLOGY **Volume:** 22 **Issue:** 5 **Article Number:** 055304 **DOI:** 10.1088/0957-4484/22/5/055304 **Published Date:** 2011 FEB 4

386 of 458

Title: Intangible pointlike tracers for liquid-crystal-based microsensors

Author(s): Brasselet, E (Brasselet, Etienne); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICAL REVIEW A **Volume:** 82 **Issue:** 6 **Article Number:** 063832 **DOI:** 10.1103/PhysRevA.82.063832 **Published Date:** 2010 DEC 28

387 of 458

Title: Structural changes in femtosecond laser modified regions inside fused silica

Author(s): Juodkazis, S (Juodkazis, Saulius); Kohara, S (Kohara, Shinji); Ohishi, Y (Ohishi, Yasuo); Hirao, N (Hirao, Norihisa); Vailionis, A (Vailionis, Arturas); Mizeikis, V (Mizeikis, Vygantas); Saito, A (Saito, Akira); Rode, A (Rode, Andrei)

Source: JOURNAL OF OPTICS **Volume:** 12 **Issue:** 12 **Article Number:** 124007 **DOI:** 10.1088/2040-8978/12/12/124007 **Published Date:** 2010 DEC

388 of 458

Title: Femtosecond laser polymerization of hybrid/integrated micro-optical elements and their characterization

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Zukauskas, A (Zukauskas, Albertas); Purlys, V (Purlys, Vytautas); Belazaras, K (Belazaras, Kastytis); Momot, A (Momot, Andrej); Paipulas, D (Paipulas, Domas); Gadonas, R (Gadonas, Roaldas); Piskarskas, A (Piskarskas, Algis); Gilbergs, H (Gilbergs, Holger); Gaidukeviciute, A (Gaidukeviciute, Arune); Sakellari, I (Sakellari, Ioanna); Farsari, M (Farsari, Maria); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF OPTICS **Volume:** 12 **Issue:** 12 **Article Number:** 124010 **DOI:** 10.1088/2040-8978/12/12/124010 **Published Date:** 2010 DEC

389 of 458

Title: Photopolymerized microscopic vortex beam generators: Precise delivery of optical orbital angular momentum

Author(s): Brasselet, E (Brasselet, Etienne); Malinauskas, M (Malinauskas, Mangirdas); Zukauskas, A (Zukauskas, Albertas); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS LETTERS **Volume:** 97 **Issue:** 21 **Article Number:** 211108 **DOI:** 10.1063/1.3517519 **Published Date:** 2010 NOV 22

390 of 458

Title: Surface defect mediated electron hopping between nanoparticles separated by a nano-gap

Author(s): Juodkazis, S (Juodkazis, Saulius); Rosa, L (Rosa, Lorenzo)

Source: PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 4 **Issue:** 10 **Special Issue:** SI **Pages:** 244-246 **DOI:** 10.1002/pssr.201004226 **Published Date:** 2010 OCT

391 of 458

Title: Frequency- and polarization-dependent optical response of asymmetric spheroidal silver nanoparticles on dielectric substrate

Author(s): Mizeikis, V (Mizeikis, Vygantas); Kowalska, E (Kowalska, Ewa); Ohtani, B (Ohtani, Bunsho); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 4 **Issue:** 10 **Special Issue:** SI **Pages:** 268-270 **DOI:** 10.1002/pssr.201004215 **Published Date:** 2010 OCT

392 of 458

Title: Thermal and optical properties of femtosecond-laser-structured PMMA

Author(s): Morikawa, J (Morikawa, Junko); Orie, A (Orie, Akihiro); Hashimoto, T (Hashimoto, Toshimasa); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 101 **Issue:** 1 **Pages:** 27-31 **DOI:** 10.1007/s00339-010-5759-0 **Published Date:** 2010 OCT

393 of 458

Title: Tailoring spectral position and width of field enhancement by focused ion-beam patterning of plasmonic nanoparticles

Author(s): Rosa, L (Rosa, Lorenzo); Sun, K (Sun, Kai); Szymanska, J (Szymanska, Joanna); Hudson, FE (Hudson, Fay E.); Dzurak, A (Dzurak, Andrew); Linden, A (Linden, Andre); Bauerdick, S (Bauerdick, Sven); Peto, L (Peto, Lloyd); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 4 **Issue:** 10 **Special Issue:** SI **Pages:** 262-264 **DOI:** 10.1002/pssr.201004239 **Published Date:** 2010 OCT

394 of 458

Title: Photoelectrolysis of water: Solar hydrogen-achievements and perspectives

Author(s): Juodkazis, K (Juodkazis, Kestutis); Juodkazyte, J (Juodkazyte, Jurga); Jelmakas, E (Jelmakas, Edgaras); Kalinauskas, P (Kalinauskas, Putinas); Valsiunas, I (Valsiunas, Ignas); Miecinskas, P (Miecinskas, Povilas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 18 **Issue:** 13 **Pages:** A147-A160 **DOI:** 10.1364/OE.18.00A147 **Published Date:** 2010 JUN 21

395 of 458

Title: Fabrication of Frequency-Selective Surface Structures by Femtosecond Laser Ablation of Gold Films

Author(s): Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Sun, K (Sun, Kai); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 5 **Issue:** 2 **Pages:** 115-120 **DOI:** 10.2961/jlmn.2010.02.0003 **Published Date:** 2010 JUN

396 of 458

Title: Mechanisms of three-dimensional structuring of photo-polymers by tightly focussed femtosecond laser pulses

Author(s): Malinauskas, M (Malinauskas, Mangirdas); Zukauskas, A (Zukauskas, Albertas); Bickaускаite, G (Bickaускаite, Gabija); Gadonas, R (Gadonas, Roaldas); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 18 **Issue:** 10 **Pages:** 10209-10221 **DOI:** 10.1364/OE.18.010209 **Published Date:** 2010 MAY 10

397 of 458

Title: Influence of laser microfabrication on silicon electrochemical behavior in HF solution

Author(s): Juodkazis, K (Juodkazis, Kestutis); Juodkazyte, J (Juodkazyte, Jurga); Kalinauskas, P (Kalinauskas, Putinas); Gertus, T (Gertus, Titas); Jelmakas, E (Jelmakas, Edgaras); Misawa, H (Misawa, Hiroaki); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF SOLID STATE ELECTROCHEMISTRY **Volume:** 14 **Issue:** 5 **Pages:** 797-802 **DOI:** 10.1007/s10008-009-0852-z **Published Date:** 2010 MAY

398 of 458

Title: Surface-texturing of sapphire by femtosecond laser pulses for photonic applications

Author(s): Kudrius, T (Kudrius, Tadas); Sleky, G (Sleky, Gintas); Juodkazis, S (Juodkazis, Saulius)

Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS **Volume:** 43 **Issue:** 14 **Article Number:** 145501 **DOI:** 10.1088/0022-3727/43/14/145501 **Published Date:** 2010 APR 14

399 of 458

Title: Thermal and optical properties of the femtosecond-laser-structured and stress-induced birefringent regions in sapphire

Author(s): Morikawa, J (Morikawa, Junko); Orie, A (Orie, Akihiro); Hashimoto, T (Hashimoto, Toshimasa); Juodkazis, S (Juodkazis, Saulius)

Source: OPTICS EXPRESS **Volume:** 18 **Issue:** 8 **Pages:** 8300-8310 **DOI:** 10.1364/OE.18.008300 **Published Date:** 2010 APR 12

400 of 458

Title: Thermal diffusivity in femtosecond-laser-structured micro-volumes of polymers

Author(s): Morikawa, J (Morikawa, Junko); Orie, A (Orie, Akihiro); Hashimoto, T (Hashimoto, Toshimasa); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 98 **Issue:** 3 **Pages:** 551-556 **DOI:** 10.1007/s00339-009-5493-7 **Published Date:** 2010 MAR

401 of 458

Title: Freestanding and movable photonic microstructures fabricated by photopolymerization with femtosecond laser pulses

Author(s): Sun, Q (Sun, Quan); Juodkazis, S (Juodkazis, Saulius); Murazawa, N (Murazawa, Naoki); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF MICROMECHANICS AND MICROENGINEERING **Volume:** 20 **Issue:** 3 **Article Number:** 035004 **DOI:** 10.1088/0960-1317/20/3/035004 **Published Date:** 2010 MAR

402 of 458

Title: Modification of refractive index by a single femtosecond pulse confined inside a bulk of a photorefractive crystal

Author(s): Gamaly, EG (Gamaly, Eugene G.); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki); Rode, AV (Rode, Andrei V.); Krolkowski, W (Krolkowski, Wieslaw)

Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 5 **Article Number:** 054113 **DOI:** 10.1103/PhysRevB.81.054113 **Published Date:** 2010 FEB

403 of 458

Title: Development of Interdigitated Array Electrodes with Surface-enhanced Raman Scattering Functionality

Author(s): Islam, MM (Islam, Md Monirul); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Yokota, Y (Yokota, Yukie); Misawa, H (Misawa, Hiroaki)

Source: ANALYTICAL SCIENCES **Volume:** 26 **Issue:** 1 **Pages:** 13-18 **DOI:** 10.2116/analsci.26.13 **Published Date:** 2010 JAN

404 of 458

Title: High-fidelity fractionation of ssDNA fragments differing in size by one-base on a spiral-channel electrophoretic chip

Author(s): Sun, K (Sun, Kai); Suzuki, N (Suzuki, Nobuko); Li, ZY (Li, Zheyu); Araki, R (Araki, Ryoko); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Abe, M (Abe, Masumi); Noji, S (Noji, Sumihare); Misawa, H (Misawa, Hiroaki)

Source: ELECTROPHORESIS **Volume:** 30 **Issue:** 24 **Special Issue:** SI **Pages:** 4277-4284 **DOI:** 10.1002/elps.200900455 **Published Date:** 2009 DEC

405 of 458

Title: Optical and ultrasonic monitoring of femtosecond laser filamentation in fused silica

Author(s): Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Balciunas, T (Balciunas, Tadas); Kudryashov, SI (Kudryashov, Sergey I.); Zvorykin,

VD (Zvorykin, Vladimir D.); Ionin, AA (Ionin, Andrei A.); Misawa, H (Misawa, Hiroaki)

Source: APPLIED SURFACE SCIENCE **Volume:** 255 **Issue:** 24 **Pages:** 9721-9723 **DOI:** 10.1016/j.apsusc.2009.04.057 **Published Date:** 2009 SEP 30

406 of 458

Title: Formation of amorphous sapphire by a femtosecond laser pulse induced micro-explosion

Author(s): Mizeikis, V (Mizeikis, Vygantas); Kimura, S (Kimura, Shigeru); Surovtsev, NV (Surovtsev, Nikolay V.); Jarutis, V (Jarutis, Vygandas); Saito, A (Saito, Akira); Misawa, H (Misawa, Hiroaki); Juodkazis, S (Juodkazis, Saulius)

Source: APPLIED SURFACE SCIENCE **Volume:** 255 **Issue:** 24 **Pages:** 9745-9749 **DOI:** 10.1016/j.apsusc.2009.04.063 **Published Date:** 2009 SEP 30

407 of 458

Title: Nano-textured metallic surfaces for optical sensing and detection applications

Author(s): Yokota, Y (Yokota, Yukie); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Murazawa, N (Murazawa, Naoki); Misawa, H (Misawa, Hiroaki); Kasa, H (Kasa, Haruya); Kintaka, K (Kintaka, Kenji); Nishii, J (Nishii, Junji)

Source: JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 207 **Issue:** 1 **Special Issue:** SI **Pages:** 126-134 **DOI:** 10.1016/j.jphotochem.2008.10.007 **Published Date:** 2009 SEP 5

408 of 458

Title: Optical Vortices from Liquid Crystal Droplets

Author(s): Brasselet, E (Brasselet, Etienne); Murazawa, N (Murazawa, Naoki); Misawa, H (Misawa, Hiroaki); Juodkazis, S (Juodkazis, Saulius)

Source: PHYSICAL REVIEW LETTERS **Volume:** 103 **Issue:** 10 **Article Number:** 103903 **DOI:** 10.1103/PhysRevLett.103.103903 **Published Date:** 2009 SEP 4

409 of 458

Title: Three-dimensional microfabrication of materials by femtosecond lasers for photonics applications

Author(s): Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF APPLIED PHYSICS **Volume:** 106 **Issue:** 5 **Article Number:** 051101 **DOI:** 10.1063/1.3216462 **Published Date:** 2009 SEP 1

410 of 458

Title: Optical transmission and laser structuring of silicon membranes

Author(s): Juodkazis, S (Juodkazis, Saulius); Nishi, Y (Nishi, Yasufumi); Misawa, H (Misawa, Hiroaki); Mizeikis, V (Mizeikis, Vygantas); Schecker, O (Schecker, Olivier); Waitz, R (Waitz, Reimar); Leiderer, P (Leiderer, Paul); Scheer, E (Scheer, Elke)

Source: OPTICS EXPRESS **Volume:** 17 **Issue:** 17 **Pages:** 15308-15317 **DOI:** 10.1364/OE.17.015308 **Published Date:** 2009 AUG 17

411 of 458

Title: Nanoparticle-Enhanced Photopolymerization

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Shibuya, T (Shibuya, Toshiyuki); Mizeikis, V (Mizeikis, Vygantas); Yokota, Y (Yokota, Yukie); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 113 **Issue:** 27 **Pages:** 11720-11724 **DOI:** 10.1021/jp901773k **Published Date:** 2009 JUL 9

412 of 458

Title: Is the nano-explosion really microscopic?

Author(s): Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Gamaly, EG (Gamaly, Eugene G.); Luther-Davies, B (Luther-Davies, Barry); Hallo, L (Hallo, Ludovic); Nicolai, P (Nicolai, Philippe); Tikhonchuk, VT (Tikhonchuk, Vladimir T.)

Source: JOURNAL OF NON-CRYSTALLINE SOLIDS **Volume:** 355 **Issue:** 18-21 **Pages:** 1160-1162 **DOI:** 10.1016/j.jnoncrysol.2009.02.013 **Published Date:** 2009 JUL 1

413 of 458

Title: Optical and ultrasonic signatures of femtosecond pulse filamentation in fused silica

Author(s): Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Balciunas, T (Balciunas, Tadas); Misawa, H (Misawa, Hiroaki); Kudryashov, SI (Kudryashov, Sergey I.); Zvorykin, VD (Zvorykin, Vladimir D.); Ionin, AA (Ionin, Andrei A.)

Source: JOURNAL OF APPLIED PHYSICS **Volume:** 105 **Issue:** 12 **Article Number:** 123106 **DOI:** 10.1063/1.3148249 **Published Date:** 2009 JUN 15

414 of 458

Title: Suppression of ripples on ablated Ni surface via a polarization grating

Author(s): Iwase, H (Iwase, Hideo); Kokubo, S (Kokubo, Satoshi); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 17 **Issue:** 6 **Pages:** 4388-4396 **DOI:** 10.1364/OE.17.004388 **Published Date:** 2009 MAR 16

415 of 458

Title: Lasing with well-defined cavity modes in dye-infiltrated silica inverse opals

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Fujiwara, H (Fujiwara, Hideki); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 17 **Issue:** 4 **Pages:** 2976-2983 **DOI:** 10.1364/OE.17.002976 **Published Date:** 2009 FEB 16

416 of 458

Title: Spatially Selective Nonlinear Photopolymerization Induced by the Near-Field of Surface Plasmons Localized on Rectangular Gold Nanorods

Author(s): Murazawa, N (Murazawa, Naoki); Ueno, K (Ueno, Kosei); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 113 **Issue:** 4 **Pages:** 1147-1149 **DOI:** 10.1021/jp809623y **Published Date:** 2009 JAN 29

417 of 458

Title: Light-Induced Nonlinear Rotations of Nematic Liquid Crystal Droplets Trapped in Laser Tweezers

Author(s): Brasselet, E (Brasselet, Etienne); Balciunas, T (Balciunas, Tadas); Murazawa, N (Murazawa, Naoki); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: MOLECULAR CRYSTALS AND LIQUID CRYSTALS **Volume:** 512 **Pages:** 1989-1997 **DOI:** 10.1080/15421400903050780 **Published Date:** 2009

418 of 458

Title: Hard X-ray generation using femtosecond irradiation of PbO glass

Author(s): Hatanaka, K (Hatanaka, Koji); Yomogihata, KI (Yomogihata, Ken-ichiro); Ono, H (Ono, Hiroshi); Nagafuchi, K (Nagafuchi, Kei); Fukumura, H (Fukumura, Hiroshi); Fukushima, M (Fukushima, Michiko); Hashimoto, T (Hashimoto, Tomohiro); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF NON-CRYSTALLINE SOLIDS **Volume:** 354 **Issue:** 52-54 **Pages:** 5485-5490 **DOI:** 10.1016/j.jnoncrysol.2008.09.013 **Published Date:** 2008 DEC 15

419 of 458

Title: Laser processing of sapphire by strongly focused femtosecond pulses

Author(s): Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 93 **Issue:** 4 **Pages:** 857-861 **DOI:** 10.1007/s00339-008-4763-0 **Published Date:** 2008 DEC

420 of 458

Title: Femtosecond laser-assisted formation of channels in sapphire using KOH solution

Author(s): Juodkazis, S (Juodkazis, Saulius); Nishi, Y (Nishi, Yasufumi); Misawa, H (Misawa, Hiroaki)

Source: PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 2 **Issue:** 6 **Pages:** 275-277 **DOI:** 10.1002/pssr.200802203 **Published Date:** 2008 DEC

421 of 458

Title: Laser induced memory bits in photorefractive LiNbO₃ and LiTaO₃

Author(s): Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Sudzius, M (Sudzius, Markas); Misawa, H (Misawa, Hiroaki); Kitamura, K (Kitamura, Kenji); Takekawa, S (Takekawa, Shunji); Gamaly, EG (Gamaly, Eugene G.); Krolkowski, WZ (Krolkowski, Wieslaw Z.); Rode, AV (Rode, Andrei V.)

Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 93 **Issue:** 1 **Pages:** 129-133 **DOI:** 10.1007/s00339-008-4641-9 **Published Date:** 2008 OCT

422 of 458

Title: Electrophoretic chip for fractionation of selective DNA fragment

Author(s): Sun, K (Sun, Kai); Suzuki, N (Suzuki, Nobuko); Li, ZY (Li, Zheyu); Araki, R (Araki, Ryoko); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Abe, M (Abe, Masumi); Noji, S (Noji, Sumihare); Misawa, H (Misawa, Hiroaki)

Source: ELECTROPHORESIS **Volume:** 29 **Issue:** 19 **Pages:** 3959-3963 **DOI:** 10.1002/elps.200700904 **Published Date:** 2008 OCT

423 of 458

Title: Tunable single-mode photonic lasing from zirconia inverse opal photonic crystals

Author(s): Nishijima, Y (Nishijima, Yoshiaki); Ueno, K (Ueno, Keisei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki); Maeda, M (Maeda, Mitsuru); Minaki, M (Minaki, Masashi)

Source: OPTICS EXPRESS **Volume:** 16 **Issue:** 18 **Pages:** 13676-13684 **DOI:** 10.1364/OE.16.013676 **Published Date:** 2008 SEP 1

424 of 458

Title: Chirp effect in hard X-ray generation from liquid target when irradiated by femtosecond pulses

Author(s): Hatanaka, K (Hatanaka, Koji); Ida, T (Ida, Takahito); Ono, H (Ono, Hiroshi); Matsushima, SI (Matsushima, Shin-ichi); Fukumura, H (Fukumura, Hiroshi); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 16 **Issue:** 17 **Pages:** 12650-12657 **DOI:** 10.1364/OE.16.012650 **Published Date:** 2008 AUG 18

425 of 458

Title: Nano-structured materials in plasmonics and photonics

Author(s): Ueno, K (Ueno, Kosei); Yokota, Y (Yokota, Yukie); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Source: CURRENT NANOSCIENCE **Volume:** 4 **Issue:** 3 **Pages:** 232-235 **DOI:** 10.2174/157341308785161046 **Published Date:** 2008 AUG

426 of 458

Title: Templating and replication of spiral photonic crystals for silicon photonics
(*Invited paper*)

Author(s): Seet, KK (Seet, Kock Khuen); Mizeikis, V (Mizeikis, Vygantas); Kannari, K (Kannari, Kenta); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Tétreault, N (Tetreault, Nicolas); John, S (John, Sajejev)

Source: IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS **Volume:** 14 **Issue:** 4 **Pages:** 1064-1073 **DOI:** 10.1109/JSTQE.2008.922909 **Published Date:** 2008 JUL-AUG

427 of 458

Title: Nanoparticle plasmon-assisted two-photon polymerization induced by incoherent excitation source

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Shibuya, T (Shibuya, Toshiyuki); Yokota, Y (Yokota, Yukie); Mizeikis, V (Mizeikis, Vygantas); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **Volume:** 130 **Issue:** 22 **Pages:** 6928-+ **DOI:** 10.1021/ja801262r **Published Date:** 2008 JUN 4

428 of 458

Title: Three-dimensional write-read-erase memory bits by femtosecond laser pulses in photorefractive LiNbO₃ crystals

Author(s): Gamaly, EG (Gamaly, Eugene G.); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki); Rode, AV (Rode, Andrei V.); Krolikowski, WZ (Krolikowski, Wieslaw Z.); Kitamura, K (Kitamura, Kenji)

Source: CURRENT APPLIED PHYSICS **Volume:** 8 **Issue:** 3-4 **Pages:** 416-419 **DOI:** 10.1016/j.cap.2007.10.072 **Published Date:** 2008 MAY

429 of 458

Title: Three-dimensional micro- and nano-structuring of materials by tightly focused laser radiation

Author(s): Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Matsuo, S (Matsuo, Shigeki); Ueno, K (Ueno, Kosei); Misawa, H (Misawa, Hiroaki)

Source: BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN **Volume:** 81 **Issue:** 4 **Pages:** 411-448 **DOI:** 10.1246/bcsj.81.411 **Published Date:** 2008 APR 15

430 of 458

Title: Coupled laser molecular trapping, cluster assembly, and deposition fed by laser-induced Marangoni convection

Author(s): Louchev, OA (Louchev, Oleg A.); Juodkazis, S (Juodkazis, Saulius); Murazawa, N (Murazawa, Naoki); Wada, S (Wada, Satoshi); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 16 **Issue:** 8 **Pages:** 5673-5680 **DOI:** 10.1364/OE.16.005673 **Published Date:** 2008 APR 14

431 of 458

Title: Statics and dynamics of radial nematic liquid-crystal droplets manipulated by laser tweezers

Author(s): Brasselet, E (Brasselet, Etienne); Murazawa, N (Murazawa, Naoki); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: PHYSICAL REVIEW E **Volume:** 77 **Issue:** 4 **Article Number:** 041704 **DOI:** 10.1103/PhysRevE.77.041704 **Published Date:** 2008 APR **Part:** 1

432 of 458

Title: Acoustic monitoring of microplasma formation and filamentation of tightly focused femtosecond laser pulses in silica glass

Author(s): Kudryashov, SI (Kudryashov, Sergey I.); Zvorykin, VD (Zvorykin, Vladimir D.); Ionin, AA (Ionin, Andrei A.); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: APPLIED PHYSICS LETTERS **Volume:** 92 **Issue:** 10 **Article Number:** 101916 **DOI:** 10.1063/1.2894506 **Published Date:** 2008 MAR 10

433 of 458

Title: Clusters of closely spaced gold nanoparticles as a source of two-photon photoluminescence at visible wavelengths

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: ADVANCED MATERIALS **Volume:** 20 **Issue:** 1 **Pages:** 26-+ **DOI:** 10.1002/adma.200602680 **Published Date:** 2008 JAN 7

434 of 458

Title: Three-Dimensional Structuring of Resists and Resins by Direct Laser Writing and Holographic Recording

Author(s): Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Edited by: Marder SR; Lee KS

Source: PHOTORESPONSIVE POLYMERS I **Book Series:** Advances in Polymer Science **Volume:** 213 **Pages:** 157-206 **DOI:** 10.1007/12_2007_122 **Published Date:** 2008

435 of 458

Title: Two-photon excitation of dye-doped liquid crystal by a cw-laser irradiation

Author(s): Murazawa, N (Murazawa, Naoki); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Kamada, K (Kamada, Kenji)

Source: MOLECULAR CRYSTALS AND LIQUID CRYSTALS **Volume:** 489 **Pages:** 310-319 **DOI:** 10.1080/15421400802218785 **Published Date:** 2008

436 of 458

Title: Mechanical properties and tuning of three-dimensional polymeric photonic crystals

Author(s): Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Seet, KK (Seet, Kock Khuen); Misawaa, H (Misawaa, Hiroaki); Wegst, UGK (Wegst, Ulrike G. K.)

Source: APPLIED PHYSICS LETTERS **Volume:** 91 **Issue:** 24 **Article Number:** 241904 **DOI:** 10.1063/1.2822825 **Published Date:** 2007 DEC 10

437 of 458

Title: Inhibition of multipolar plasmon excitation in periodic chains of gold nanoblocks

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Ohnishi, D (Ohnishi, Dai); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 15 **Issue:** 25 **Pages:** 16527-16539 **DOI:** 10.1364/OE.15.016527 **Published Date:** 2007 DEC 10

438 of 458

Title: Azimuthal correlation of photon pairs generated in spontaneous parametric down-conversion

Author(s): Jarutis, V (Jarutis, Vygandas); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Source: PHYSICAL REVIEW A **Volume:** 76 **Issue:** 4 **Article Number:** 043845 **DOI:** 10.1103/PhysRevA.76.043845 **Published Date:** 2007 OCT

439 of 458

Title: Laser trapping of deformable objects

Author(s): Murazawa, N (Murazawa, Naoki); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Wakatsuki, H (Wakatsuki, Hiroshi)

Source: OPTICS EXPRESS **Volume:** 15 **Issue:** 20 **Pages:** 13310-13317 **DOI:** 10.1364/OE.15.013310 **Published Date:** 2007 OCT 1

440 of 458

Title: Void formation in glasses

Author(s): Hashimoto, T (Hashimoto, Tomohiro); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: NEW JOURNAL OF PHYSICS **Volume:** 9 **Article Number:** 253 **DOI:** 10.1088/1367-2630/9/8/253 **Published Date:** 2007 AUG 10

441 of 458

Title: Fabrication and properties of metal-dielectric photonic crystal structures for infrared spectral region

Author(s): Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Tarozaite, R (Tarozaite, Rima); Juodkazyte, J (Juodkazyte, Jurga); Juodkazis, K (Juodkazis, Kestutis); Misawa, H (Misawa, Hiroaki)

Source: OPTICS EXPRESS **Volume:** 15 **Issue:** 13 **Pages:** 8454-8464 **DOI:** 10.1364/OE.15.008454 **Published Date:** 2007 JUN 25

442 of 458

Title: In-bulk and surface structuring of sapphire by femtosecond pulses

Author(s): Juodkazis, S (Juodkazis, Saulius); Nishimura, K (Nishimura, Koichi); Misawa, H (Misawa, Hiroaki)

Source: APPLIED SURFACE SCIENCE **Volume:** 253 **Issue:** 15 **Special Issue:** SI **Pages:** 6539-6544 **DOI:** 10.1016/j.apsusc.2007.01.097 **Published Date:** 2007 MAY 30

443 of 458

Title: Electrophoretic chip for high-fidelity fractionation of double-stranded DNA

Author(s): Sun, K (Sun, Kai); Li, ZY (Li, Zheyu); Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Noji, S (Noji, Sumihare); Misawa, H (Misawa, Hiroaki)

Source: ELECTROPHORESIS **Volume:** 28 **Issue:** 10 **Pages:** 1572-1578 **DOI:** 10.1002/elps.200600685 **Published Date:** 2007 MAY

444 of 458

Title: Spectral sensitivity of uniform arrays of gold nanorods to dielectric environment

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mino, M (Mino, Masahiro); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 111 **Issue:** 11 **Pages:** 4180-4184 **DOI:** 10.1021/jp068243m **Published Date:** 2007 MAR 22

445 of 458

Title: Optical characterization of plasmonic metallic nanostructures fabricated by high-resolution lithography

Author(s): Yokota, Y (Yokota, Yukie); Ueno, K (Ueno, Kosei); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF NANOPHOTONICS **Volume:** 1 **Article Number:** 011594 **DOI:** 10.1117/1.2832749 **Published Date:** 2007

446 of 458

Title: Simulation of Light Interaction with Metallic Nanoparticles

Author(s): Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Vanagas, E (Vanagas, Egidijus); Li, MW (Li, Mingwei)

Source: JOURNAL OF LASER MICRO NANOENGINEERING **Volume:** 1 **Issue:** 3 **Pages:** 253-257 **Published Date:** 2006 DEC

447 of 458

Title: Spectrally-resolved atomic-scale length variations of gold nanorods

Author(s): Ueno, K (Ueno, Kosei); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Sasaki, K (Sasaki, Keiji); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **Volume:** 128 **Issue:** 44 **Pages:** 14226-14227 **DOI:** 10.1021/ja0645786 **Published Date:** 2006 NOV 8

448 of 458

Title: Fabrication of three-dimensional periodic microstructures in photoresist SU-8 by phase-controlled holographic lithography

Author(s): Kondo, T (Kondo, Toshiaki); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Matsuo, S (Matsuo, Shigeki); Misawa, H (Misawa, Hiroaki)

Source: NEW JOURNAL OF PHYSICS **Volume:** 8 **Article Number:** 250 **DOI:** 10.1088/1367-2630/8/10/250 **Published Date:** 2006 OCT 24

449 of 458

Title: Femtosecond laser ablation of chalcogenide glass: explosive formation of nano-fibres against thermo-capillary growth of micro-spheres

Author(s): Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Louchev, OA (Louchev, Oleg A.); Kitamura, K (Kitamura, Kenji)

Source: NANOTECHNOLOGY **Volume:** 17 **Issue:** 19 **Pages:** 4802-4805 **DOI:** 10.1088/0957-4484/17/19/003 **Published Date:** 2006 OCT 14

450 of 458

Title: Photo-structuring of As₂S₃ glass by femtosecond irradiation

Author(s): Juodkazis, S (Juodkazis, Saulius); Kondo, T (Kondo, Toshiaki); Misawa, H (Misawa, Hiroaki); Rode, A (Rode, Andrei); Samoc, M (Samoc, Marek); Luther-Davies, B (Luther-Davies, Barry)

Source: OPTICS EXPRESS **Volume:** 14 **Issue:** 17 **Pages:** 7751-7756 **DOI:** 10.1364/OE.14.007751 **Published Date:** 2006 AUG 21

451 of 458

Title: Holographic lithography of periodic two- and three-dimensional microstructures in photoresist SU-8

Author(s): Kondo, T (Kondo, Toshiaki); Juodkazis, S (Juodkazis, Saulius); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki); Matsuo, S (Matsuo, Shigeki)

Source: OPTICS EXPRESS **Volume:** 14 **Issue:** 17 **Pages:** 7943-7953 **DOI:** 10.1364/OE.14.007943 **Published Date:** 2006 AUG 21

ISSN: 1094-4087

452 of 458

Title: Three-dimensional recording by tightly focused femtosecond pulses in LiNbO_3

Author(s): Juodkazis, S (Juodkazis, Saulius); Sudzius, M (Sudzius, Markas); Mizeikis, V (Mizeikis, Vygantas); Misawa, H (Misawa, Hiroaki); Gamaly, EG (Gamaly, Eugene G.); Liu, YW (Liu, Youwen); Louchev, OA (Louchev, Oleg A.); Kitamura, K (Kitamura, Kenji)

Source: APPLIED PHYSICS LETTERS **Volume:** 89 **Issue:** 6 **Article Number:** 062903 **DOI:** 10.1063/1.2335364 **Published Date:** 2006 AUG 7

453 of 458

Title: Three-dimensional circular spiral photonic crystal structures recorded by femtosecond pulses

Author(s): Seet, KK (Seet, Kock Khuen); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: JOURNAL OF NON-CRYSTALLINE SOLIDS **Volume:** 352 **Issue:** 23-25 **Pages:** 2390-2394 **DOI:** 10.1016/j.jnoncrysol.2006.02.079 **Published Date:** 2006 JUL 15

454 of 458

Title: Feature-size reduction of photopolymerized structures by femtosecond optical curing of SU-8

Author(s): Seet, KK (Seet, Kock Khuen); Juodkazis, S (Juodkazis, Saulius); Jarutis, V (Jarutis, Vygandas); Misawa, H (Misawa, Hiroaki)

Source: APPLIED PHYSICS LETTERS **Volume:** 89 **Issue:** 2 **Article Number:** 024106 **DOI:** 10.1063/1.2221499 **Published Date:** 2006 JUL 10

455 of 458

Title: Control over the crystalline state of sapphire

Author(s): Juodkazis, S (Juodkazis, Saulius); Nishimura, K (Nishimura, Koichi); Misawa, H (Misawa, Hiroaki); Ebisui, T (Ebisui, Takahiro); Waki, R (Waki, Ryoichi); Matsuo, S (Matsuo, Shigeki); Okada, T (Okada, Tatsuya)

Source: ADVANCED MATERIALS **Volume:** 18 **Issue:** 11 **Pages:** 1361-+ **DOI:** 10.1002/adma.200501837 **Published Date:** 2006 JUN 6

456 of 458

Title: Laser-matter interaction in the bulk of a transparent solid: Confined microexplosion and void formation

Author(s): Gamaly, EG (Gamaly, Eugene G.); Juodkazis, S (Juodkazis, Saulius); Nishimura, K (Nishimura, Koichi); Misawa, H (Misawa, Hiroaki); Luther-Davies, B (Luther-Davies, Barry)

Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 21 **Article Number:** 214101 **DOI:** 10.1103/PhysRevB.73.214101 **Published Date:** 2006 JUN

457 of 458

Title: Three-dimensional horizontal circular spiral photonic crystals with stop gaps below 1 μm

Author(s): Seet, KK (Seet, Kock Khuen); Mizeikis, V (Mizeikis, Vygantas); Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki)

Source: APPLIED PHYSICS LETTERS **Volume:** 88 **Issue:** 22 **Article Number:** 221101 **DOI:** 10.1063/1.2207841 **Published Date:** 2006 MAY 29

458 of 458

Title: Laser-induced microexplosion confined in a bulk of silica: Formation of nanovoids

Author(s): Juodkazis, S (Juodkazis, Saulius); Misawa, H (Misawa, Hiroaki); Hashimoto, T (Hashimoto, Tomohiro); Gamaly, EG (Gamaly, Eugene G.); Luther-Davies, B (Luther-Davies, Barry)

Source: APPLIED PHYSICS LETTERS **Volume:** 88 **Issue:** 20 **Article Number:** 201909 **DOI:** 10.1063/1.2204847 **Published Date:** 2006 MAY 15

.....
(Mokslininko parašas)

Tvirtinu:
Akademinio kamieninio
padalinio tarybos sekretorius
.....
(vardas, pavardė)

(parašas)

Laudacija

siūlymui suteikti Vilniaus universiteto garbės daktaro vardą
prof. Sauliui Juodkaziui

Profesorius Saulius Juodkasis - vienas iškiliausių lietuvių kilmės fizikų, tarptautiniu mastu pripažintas dėl savo išskirtinių mokslo pasiekimų femtosekundinių lazerių, mikroapdirbimo, nanofotonikos ir spinduliuotės-medžiagos sąveikos srityse, kurios žymi lygiagretų mokslo ir technologijų vystymąsi.

Jis aktyviai bendradarbiauja su Vilniaus universiteto Fizikos fakulteto Lazerinių tyrimų centru (VULTC). Mokslinė partnerystė su profesoriumi Mangirdu Malinausku, kuris taip pat yra žinomas dėl savo tyrimų 3D lazerinio rašymo ir fotoninių struktūrų srityje, prasidėjo nuo 2009 metų, kai Mangirdas, būdamas doktorantu, kreipėsi konsultacijos į prof. S. Juodkazį specifiniu 3D nano-fotopolimerizacijos klausimu. Konstruktyvus bendravimas perraugo į ilgalaikį bendradarbiavimą ir spartų jauno mokslininko augimą. Šios 15 metų besitęsiančios partnerystės metu paskelbti 59 moksliniai straipsniai, kurie pacituoti daugiau nei 3000 kartų, o vidutinė citavimo norma siekia 55 kartus vienam straipsniui. Šis ilgalaikis ir sėkmingas bendradarbiavimas, apimantis skirtingus žemynus – Japoniją, Lietuvą ir Australiją - ne tik prisidėjo prie pasaulinės mokslo žinių sklaidos, bet ir padėjo Vilniaus universitetui įsitvirtinti kaip vienam iš lyderių lazerinių technologijų ir mikro/nanostruktūrų gamybos srityse. Bendri projektai ir publikacijos taip pat prisidėjo prie Vilniaus universiteto tarptautinio matomumo, skatino studentų ir tyrėjų mainus bei pritraukė finansavimą iš prestižinių mokslo fondų. Prof. Juodkasis dažnai konsultuoja mūsų doktorantus ir dalyvauja doktorantūros gynimų komitetuose, kas tik dar kartą patvirtina jo indėlį į jaunųjų mokslininkų ugdymą ir išskirtinę brandžią mentorystę.

Būtina paminėti ir profesoriaus Sauliaus Juodkazio indėlį į femtosekundinių lazerių sąveikos su medžiagomis, ypač medžiagų apdirbimo srityje, kas tiesiogiai atliepia Vilniaus universiteto Lazerinių tyrimų centro (VU LTC) vystomą kryptį. Jo fundamentalūs tyrimai apie femtosekundinės abliacijos mechanizmus ir slenksčius įvairiose medžiagose, taip pat darbai apdorojant kietas ir trapias medžiagas, tokias kaip safyras ir silicis (įskaitant „juodojo silicio“ formavimą lazeriu), turėjo reikšmingą įtaką VU LTC tikslaus medžiagų mikroapdirbimo srityje. Be to, jo novatoriški tyrimai, pasitelkiant nestandartinius pluoštus mikrofabrikacijai, įskaitant Beselio pluoštus, kurie ypač aktyviai tiriami ir taikomi VU LTC bei susijusiose grupėse, rodo jo tiesioginę įtaką pažangių medžiagų apdirbimo metodų plėtrai.

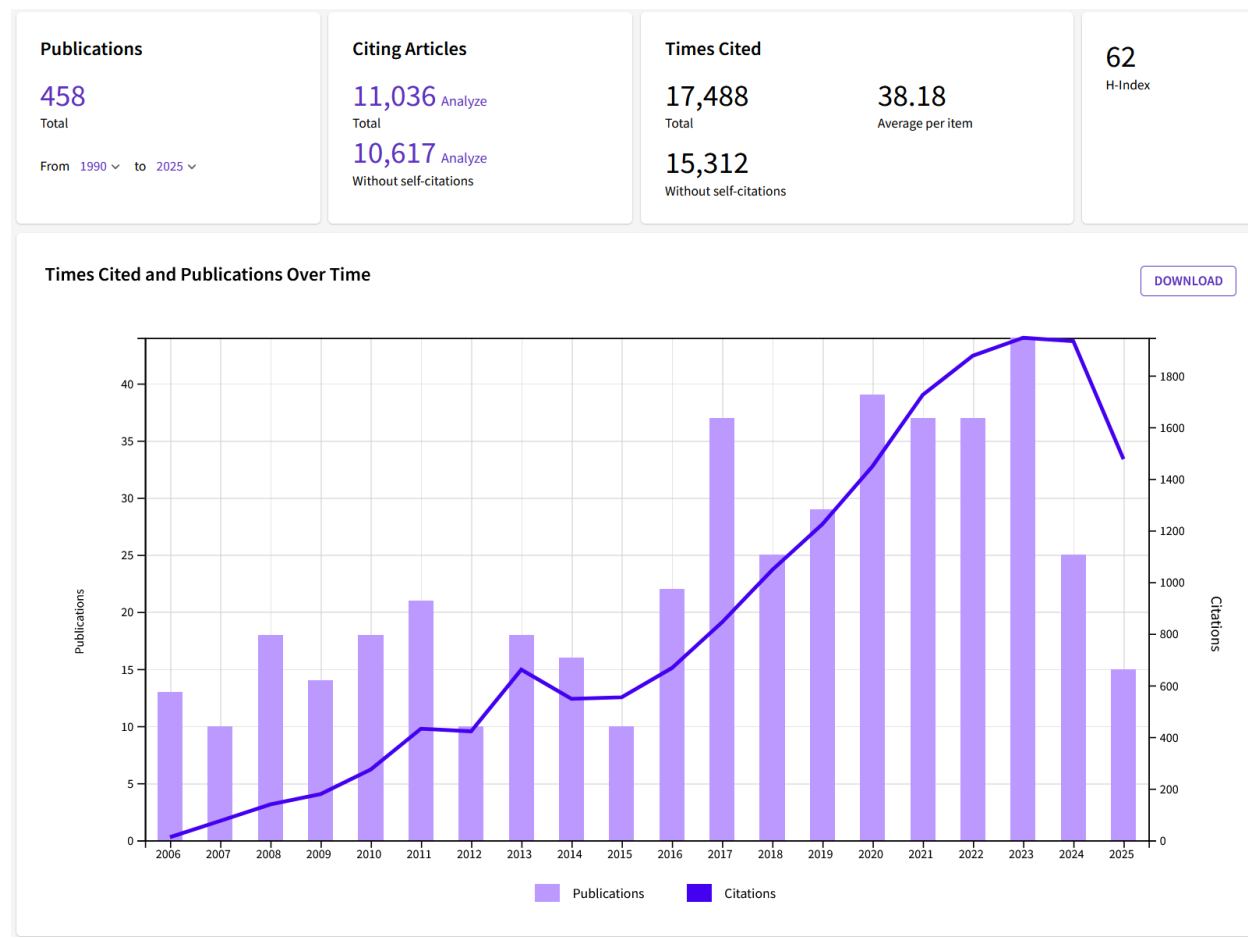
Šiuo metu profesorius Juodkasis yra pagrindinis ekspertas, vedantis tarptautinius bendradarbiavimo projektus, ir jo įtaka labai plačiai jaučiasi lazerinio medžiagų apdirbimo srityse. Jo mokslinės įžvalgos apie krūvio atskyrimo mechanizmus, ekstremalių medžiagų būsenų sukūrimą ir lazeriu indukuotų periodinių paviršiaus struktūrų (LIPSS) formavimąsi suteikė esminių žinių, kurios įtakojo plėtojamus spinduliuotės ir medžiagos sąveikos tyrimus. Be to, profesorius S. Juodkasis reikšmingai prisideda prie daugelio tarptautinių projektų, dalyvauja bendrose kvietimų paraiškose pagal ELI naudotojų projektų kvietimus, taip pat inicijuoja naujas partnerystes pavyzdžiui, tolimosios infraraudonosios srities mikroskopijos ir poliarimetrijos srityje, bendradarbiaujant su Tartu universitetu ir Swinburne universitetu. Jo bendradarbiavimo tinklas apima įvairias pažangias laboratorijas Japonijoje, Australijoje ir kitose šalyse, kur atliekami reikšmingi moksliniai tyrimai, į kuriuos įtraukiami VU studentai, podoktorantūros stažuotojai ir tyrėjai.

Profesorius S. Juodkasis nurodo Vilniaus universiteto afiliaciją savo darbuose ir yra

tampriai susijęs su VU LTC, kas dar kartą pabrėžia jo tvirtus ir nuolatinius ryšius su Vilniaus universiteto mokslo bendruomene.

Profesorius Juodkasis yra ne tik mokslininkas, bet ir puikus mentorystės pavyzdys jauniems tyrėjams, kurių daugelis dabar renkasi mokslininko karjerą.

Reziumuojant, profesoriaus Sauliaus Juodkazio indėlis į Vilniaus universiteto mokslo plėtrą, jo išskirtinė mentorystė jauniems tyrėjams ir nuolatinis bendradarbiavimas su Lietuvos mokslininkais yra tvirtas pagrindas suteikti jam Vilniaus universiteto garbės daktaro vardą. Tai būtų ne tik asmeninis įvertinimas, bet ir svarus gestas, atspindintis universiteto gebėjimą kurti ir palaikyti aukščiausio lygio tarptautines partnerystes.



DETALŪS METADUOMENYS

Dokumento sudarytojas (-ai)	Fizikos fakultetas, tel. 2366000, faks. 2366003, Saulėtekio al. 9, III rūmai, LT-10222 Vilnius, el. p.: ff@ff.vu.lt
Dokumento pavadinimas (antraštė)	TARYBOS NUTARIMAS
Dokumento registracijos data ir numeris	2025-10-02 Nr. (1.2 E) 120000-TPN-9
Adresatas	–
Dokumentą pasirašė	Instituto direktorius Egidijus Anisimovas
Veiksmo atlikimo data ir laikas	2025-10-02 15:06:16
Dokumentą pasirašė	Studijų administratorė Deimena Jablonskytė
Veiksmo atlikimo data ir laikas	2025-10-02 15:25:55
Dokumentą pasirašė	Dekanas Aidas Matijošius
Veiksmo atlikimo data ir laikas	2025-10-02 15:41:22
Registratorius	Dekanas Aidas Matijošius
Veiksmo atlikimo data ir laikas	2025-10-02 15:41:23
Dokumento nuorašo atspausdinimo data ir jį atspausdinęs darbuotojas	2025-10-02 atspausdino Studijų administratorė Deimena Jablonskytė

Nuorašas tikras
Vilniaus universitetas
2025-10-02