

CURRICULUM VITAE

PERSONAL DETAILS

Family name, First name: Zyla, Gordon

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Google Scholar: <https://scholar.google.de/citations?user=kaJXNZwAAAAJ&hl=de>

Date of birth: April 23rd, 1988 (Gelsenkirchen, Germany); Nationality: German.

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EDUCATION AND KEY QUALIFICATION

- 2014-2020** PhD in Engineering, Faculty of Mechanical Engineering, Ruhr University Bochum
Dissertation topic: Bioinspired Structural colors using two-photon polymerization
Original title (German): Bionische Strukturfarben mittels Zwei-Photonen Polymerisation
Name of PhD supervisor: Prof. Andreas Ostendorf
- 2013-2014** Master of Science in Mechanical Engineering, Faculty of Mechanical Engineering, Ruhr University Bochum
- 2008-2013** Bachelor of Science in Mechanical Engineering, Faculty of Mechanical Engineering, Ruhr University Bochum

CURRENT POSITION

- Jan 2025-Present** **Senior Researcher**
Laser Research Center, Vilnius University.
Postdoctoral Fellow, Winner in VU Foundation's 2024 Young Scientist
Co-funding Competition

PREVIOUS POSITIONS

- Dec 2022 – Nov 2024** **Postdoctoral Research Fellow**
Foundation of Research & Technology Hellas (FORTH) Greece,
Institute of Electronic Structure and Laser (IESL).
Marie Skłodowska-Curie Action Postdoctoral Fellow

Main activities: Developing a novel 3D printer that advances multiphoton printing (MPP) for high-resolution, large-area printing, specifically for microfluidics and optics. The project focused on enhancing MPP's precision, integrating digital light processing, and developing tailored photosensitive materials.

- Jun 2022 – Nov 2022** **Postdoctoral Research Fellow.**
Foundation of Research & Technology Hellas (FORTH) Greece,
Institute of Electronic Structure and Laser (IESL).
Feodor Lynen Fellow, Alexander von Humboldt Foundation

Main activities: Developing mid-IR and THz metamaterials with minimal interaction volumes. In parallel, supervising work on 3D THz structures exhibiting electromagnetically induced transparency through broken-symmetry geometry. The research combined numerical simulation and experimental MPP studies, employing hybrid materials that enabled post-processing through selective metallization/calcination.

- Jan 2022 – May 2022** **Postdoctoral Researcher**
Ruhr University Bochum, Germany, Chair of Applied Laser Technologies

Main activities: Launching a VIP+-funded project to develop a compact, diode-laser-based MPP system for low-cost fabrication of custom micro-optics. Contributed to planning the optical setup, defining laser specifications, and demonstrating micro-optics printing on optical fibers as a first proof of concept.

- Apr 2021 – Dec 2021** **Postdoctoral Research Fellow**
Foundation of Research & Technology Hellas (FORTH) Greece,
Institute of Electronic Structure and Laser (IESL)
Gateway Fellow

Main activities: Training on fabricating diffractive optical elements via MPP. I also explored the synthesis of photoresists, metasurfaces, fiber-based micro-optics, and post-processing strategies. These insights directly contributed to my successful Feodor Lynen and MSCA Postdoctoral Fellowship applications.

Mar 2020 – Apr 2021 Postdoctoral Researcher.

Ruhr University Bochum, Germany, Chair of Applied Laser Technologies

***Main activities:** In parallel with completing my PhD, I conducted research on using compact diode and picosecond lasers for MPP and modelled nonlinear polymerization at high repetition rates. These activities led to publications, a patent application, and a VIP+ proposal. I also secured the Gateway Fellowship.*

SHORT SYNOPSIS OF MY SCIENTIFIC CAREER

Since my PhD, I have specialized in multiphoton printing (MPP), consistently rethinking the technology beyond conventional boundaries, which has been distilled into new ideas. For example, I introduced new concepts for high-precision printing and material functionalization, enabling complex light–matter interactions for advanced optics and photonics. In parallel, I developed complementary expertise in optical setup design for MPP, photoresist synthesis, ultrafast laser characterization, and polymer post-processing, establishing myself as a leading early-career researcher in the field of MPP. On this basis, I conceived and secured several highly competitive fellowships, demonstrating originality, scientific independence, and the ability to define and lead new research directions. My work across Germany, Greece, and Lithuania has established me as an internationally visible researcher with a strong network and proven experience in driving interdisciplinary collaborations.

CURRENT RESEARCH AND CAREER VISION

At Vilnius University, my research focuses on advancing optics and photonics through MPP, with the long-term goal of developing advanced 3D-manufactured optical systems and exploring new approaches to shape light. Building on my voxel-refinement technique for precise MPP (see publication, 3D micro-devices for enhancing the lateral resolution in optical microscopy. Light: Adv. Manuf., 5, 19, item 10 in publication list), I am currently investigating the fabrication of multi-level diffractive optical elements. In parallel, I study their integration with printed free-form optics to create compact, polymer-based optical systems. In this context, I am developing strategies to enhance optical transparency by reducing Fresnel reflection losses through anti-reflective coatings, in collaboration with Prof. Mangirdas Malinauskas and Dr. Lina Grinevičiūtė (Center for Physical Sciences and Technology (FTMC), Vilnius). Next, furnace-based annealing will be used to tailor the optical properties of these elements in collaboration with Dr. Greta Merkininkaitė (Vilnius University, Faculty of Chemistry and Geosciences).

MAJOR RESEARCH INTERESTS

1. Multiphoton printing for micro-/nanoscale 3D fabrication and advanced MPP strategies
2. Photosensitive materials and postprocessing techniques
3. Nonlinear light–matter interaction and ultrafast laser characterization
4. Femtosecond laser micromachining
5. Optics and photonics, e.g., free-form/flat optics, metasurfaces, photonic crystals, waveguides
6. Electromagnetic and mechanical metamaterials

INTERNATIONAL COLLABORATIONS

During my postdoctoral career, in particular through the execution of my fellowships, I have established a broad network of collaborations with leading research groups and top-tier scientists worldwide. Recent collaborations were initiated through research-related activities at Vilnius University, including discussions with Dr. Etienne Brasselet on the scientific scope of the VU Postdoctoral Fellowship as well as interactions with Prof. Arturo Susarrey Arce, who visited the Laser Nanophotonics Group in November 2025.

In addition, I met Prof. Stefan Nolte at the SPIE Photonics West conference in 2023, and since then he has acted as an important mentor, providing guidance on ultrafast laser technologies, photonics research directions, and academic career development.

My established and ongoing collaborations with experts aligned with the proposed work include:

- **Dr Maria Farsari** (IESL-FORTH):
Expertise: Light-based 3D printing, photosensitive materials
- **Prof. Costas Grigoropoulos** (UC Berkeley):
Expertise: Mechanical metamaterials, mechanical testing
- **Dr Odysseas Tsilipakos** (National Hellenic Research Foundation):
Expertise: Theoretical studies of metasurfaces
- **Prof. Stefan Nolte** (Friedrich Schiller University Jena):
Expertise: Ultrafast laser technologies, optics and photonics

- **Prof. Ivan Kassamakov** (University of Helsinki):
Expertise: Optical microscopy, photonic nanojets
- **Dr Etienne Brasselet** (CNRS):
Expertise: Spin-orbit photonics, singular optics
- **Prof. Kuniaki Konishi** (University of Tokyo):
Expertise: Ultrafast laser science, THz metasurfaces
- **Dr Roberto Osellame** (IPN-CNR):
Expertise: Femtosecond laser micromachining, lab-on-chip systems, integrated photonics
- **Prof. Arturo Susarrey Arce** (University of Twente):
Expertise: Advanced photosensitive materials, post-processing of MPP structures
- **Prof. Frédéric Dumur** (Aix-Marseille University):
Expertise: Photoinitiators for 3D printing

FELLOWSHIPS

- 06/2025 **VU Postdoctoral Fellowship (Funding period: 24 months):** *I was awarded this prestigious fellowship as the sole recipient from the Faculty of Physics at Vilnius University for my proposal on diffractive optical elements for advanced wavefront control.*
- 01/2025 **VU Foundation's 2024 Young Scientist Co-funding Competition (Funding period: 24 months):** *I received this competitive prize aimed at attracting talented early-career researchers and fostering research excellence at Vilnius University*
- 12/2025 **Marie Skłodowska-Curie Action Postdoctoral Fellowship, European Commission (Funding period: 24 months):** *I was awarded one of the most prestigious and competitive fellowships worldwide for the project EagleEye (Grant Agreement No. 101059253).*
- 06/2022 **Feodor-Lynen Fellowship, Alexander von Humboldt Foundation (Funding period: 24 months):** *I was awarded this highly prestigious international fellowship as an outstanding researcher to pursue the project "3D metasurfaces via multiphoton polymerization."*
- 04/2021 **Gateway Fellowship, Ruhr University Bochum, (Funding period: 9 months):** *I was awarded this highly competitive fellowship as one of only two early-career postdoctoral researchers selected. It supported the development of my independent research profile and initiated my collaboration with Dr. Maria Farsari, a world-leading scientist in MPP.*

SECONDMENTS

- 2024 **University of Tokyo Prof. Kunishi Kuniaki:** *This secondment was conducted during my Marie Skłodowska-Curie Actions Postdoctoral Fellowship and lasted one month. During this period, I was trained on ultrafast laser characterization to analyze the refractive index of MPP-printed polymer structures. I was invited for this training in the framework of the Marie Skłodowska-Curie Actions Staff Exchange programme.*
- 2024 **Institute for Photonics and Nanotechnologies (IFN), National Research Council (CNR), Dr. Roberto Osellame:** *This secondment was conducted during my Marie Skłodowska-Curie Actions Postdoctoral Fellowship and lasted three months. During this period, I received advanced training in femtosecond laser micromachining for the processing of silica glass substrates, targeting lab-on-chip and integrated photonics applications in combination with MPP. The work was carried out under the guidance of Dr Roberto Osellame, whose expertise in femtosecond laser micromachining, microfluidics and integrated photonics.*

SUPERVISION AND MENTORING OF STUDENTS

- 2025-Present Supervision of 1 Bachelor student / 1 Master student, Mentoring of 2 Master students, Laser Research Center, Faculty of Physics, Vilnius University
- 2021-2024 Supervision of 1 Master student, Mentoring of 3 PhD students and 1 early-career Postdoctoral Researcher
IESL-FORTH
- 2014-2021 Supervision of 4 Bachelor students / 10 Master students,
Ruhr University Bochum

TEACHING ACTIVITIES

- 2025-Present Lectures and exams on “Light- and Laser-Based 3D Printing Technologies”
Course: Nano- and Micro-Technologies, Vilnius University (Bachelor students)
- 2014-2021 Lecturer and course coordination
Course: Laser Materials Processing, Ruhr University Bochum (Master students)
- 2014-2021 Lectures on “Multiphoton Polymerization and Holographic Optical Tweezers”
Course: Applied Laser Technologies, Ruhr University Bochum (Master students)
- 2014-2021 Laboratory courses on “Laser Metrology”
Course: Fundamentals in Metrology and Advanced Metrology,
Ruhr University Bochum (Bachelor and Master students)

ORGANISATION OF SCIENTIFIC MEETINGS

- 2024-Present Program committee and chair, Nanoscale and Quantum Materials: From Synthesis and Laser Processing to Applications, SPIE Photonics West, United States
- 2022-2024 Program committee, European Researcher’s Night, IESL-FORTH, Greece
- 2023 Chair and organizer of the track ‘Light-Assisted Microfabrication’,
Photonics Online Meetup, online

INSTITUTIONAL RESPONSIBILITIES

- 2018-2021 Representative for the Engineering Sciences at Ruhr University Bochum,
Executive Board of the RUB Research School (RUB RS)

REVIEWING AND EDITING ACTIVITIES

- Present Guest editor, Special issue: 3D-Printed Optical Microsystems, Journal of Optical Microsystems
- Since 2025 Expert evaluator, Horizon Europe Marie Skłodowska-Curie Actions Postdoctoral Fellowship (MSCA-PF), Physics Panel
- 2025 Evaluator, Doctoral Thesis, Beatriz Neves Leal Costa, Development of Three-Dimensional Diamond Photonics Platforms for Neuronal Research, University of Vigo.
Supervision: Jana B. Nieder
- 2023 Guest editor, Special issue: Extreme Manufacturing, Light: Advanced Manufacturing
- 2020-Present Reviewer for scientific journals: Advanced Materials; Laser & Photonics Reviews; Small; Optics Express; Optica; Optics Letters; ACS Applied Materials & Interfaces; ACS Photonics; Nature Communications

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2022-Present Member of the Optica (formerly Optical Society of America, OSA)
- 2021-Present Member of SPIE – the International Society for Optics and Photonics

PRIZES AND AWARDS

- 05/2025 **Outstanding paper award, Light: Advanced Manufacturing:** *Awarded for my publication “3D micro-devices for enhancing the lateral resolution in optical microscopy.”*
- 02/2024 **Best paper award at SPIE Photonics West conference 2024:** *Awarded at the world’s largest optics and photonics technologies event for my invited talk “Laser-based 3D Printing of Novel Optical Devices,” highlighting advances in MPP toward real-world optical and photonic applications linked to my publication “3D micro-devices for enhancing the lateral resolution in optical microscopy” in Light: Advanced Manufacturing.*
- 01/2018 **Best student paper award at SPIE Photonics West conference 2018:** *Awarded at the world’s largest optics and photonics technologies event for my talk “Printing structural colors via direct laser writing” highlighting the use of MPL for bioinspired optics and photonics linked to my publication “Generation of bioinspired structural colors via two-photon polymerization” in Scientific Reports.*

PUBLICATION RECORD

My vision as a scientist has always been to deliver high-quality, original research that opens new directions. Since completing my PhD, I have consistently pursued independent ideas supported by prestigious fellowships. I have published 17 papers in international peer-reviewed journals, including 9 as first and corresponding author, and I am co-inventor on an international patent. In addition, another paper was recently submitted and uploaded to an open repository (see publication under peer review, item 1).

Of my 17 peer-reviewed publications, 11 extend beyond my dissertation topic and were published during my early-career stage as a postdoctoral researcher. A steady rise in citations since my PhD reflects both the quality of my research and my increasing scientific independence. Notably, in 2025 I doubled my citation count compared to 2024 and currently hold an h-index of 10, demonstrating the excellence of my scientific output at this career stage, fostered by the prestigious fellowships awarded to me over recent years.

I also maintain a strong international presence, having delivered 9 invited oral presentations on MPP at major international conferences and scientific meetings over the past three years.

Overall, my track record demonstrates expertise across all core concepts relevant to MPP, placing me in a strong position to realize ambitious projects at the highest level. A solid background in MPP and its applications in optics and photonics, combined with expertise in theoretical modeling, photosensitive materials, nonlinear analysis, and post-processing strategies, equips me with the comprehensive knowledge required to oversee and execute highly ambitious research, including high-risk approaches with the potential for substantial scientific gain.

(* - corresponding author)

MONOGRAPHS AND BOOK CHAPTERS:

1. **Zyla, G.*** (2020). *Bionische Strukturfarben mittels Zwei-Photonen Polymerisation*. Doctoral Thesis, Ruhr-Universität Bochum, doi.org/10.13154/294-7212
2. Ostendorf, A.*, Köhler, J., Ksouri, S. I., **Zyla, G.**, Esen, C. (2017): Laser-based assembler and microfluidic applications. In: Jesper Glückstad, Darwin Palima (eds.), *Light Robotics – Structure-mediated Nanobiophotonics*, Elsevier, Amsterdam, pp. 33–64.

PUBLICATIONS WITH PEER REVIEW PROCESS:

1. Stavrou, M.*, Pramatioti, E., **Zyla, G.**, Ladika, D., Skentzos, G., Farsari, M., Juodkazis, S., Malinauskas, M.*, Gray, D.*, and Couris, S.* (2025): Nonlinearity matters in light–matter interaction: multi-photon 3D lithography. *Research Square* (preprint).
2. Ladika, D.*, Stavrou, M., **Zyla, G.**, Parkatzidis, K., Androulidaki, M., Dumur, F., Farsari, M., and Gray, D.* (2025): High- and low-fluorescent photoinitiators for multiphoton lithography. *ACS Appl. Polym. Mater.*, 7(15), 10108–10120.
3. **Zyla, G.***, Papamakarios, S., Zografopoulos, D. C., Christoforidou, A., Kenanakis, G., Farsari, M., and Tsilipakos, O.* (2025): Film-Based Multi-Photon Lithography for Efficient Printing of Electromagnetic Surface Structures. *Adv. Mater. Technol.*, 10, 2402137.
4. Meier, T., Korakis, V., Blankenship, B. W., Lu, H., Kyriakou, E., Papamakarios, S., Vangelatos, Z., Yildizdag, M. E., **Zyla, G.**, Xia, X., Zheng, X., Rho, Y., Farsari, M., and Grigoropoulos, C. P.* (2025): Scalable phononic metamaterials: Tunable bandgap design and multi-scale experimental validation. *Materials & Design*, 252, 113778.
5. Blankenship, B. W., Pan, D., Kyriakou, E., **Zyla, G.**, Meier, T., Arvin, S., Seymour, N., De La Torre, N., Farsari, M., Ji, N., and Grigoropoulos, C. P.* (2025): Multiphoton and harmonic imaging of microarchitected materials. *ACS Appl. Mater. Interfaces*, 17(2), 3887–3896.
6. Papamakarios, S., Tsilipakos, O., Katsantonis, I., Koulouklidis, A. D., Manousidaki, M., **Zyla, G.**, Daskalaki, C., Tzortzakis, S., Kafesaki, M., and Farsari, M.* (2024): Cactus-like metamaterial structures for electromagnetically induced transparency at THz frequencies. *ACS Photonics*, 12, 87–97.
7. Barchiesi, E., Mavrikos, S., Giorgio, I., Grigoropoulos, C., Farsari, M., dell’Isola, F., **Zyla, G.*** (2024): Complex mechanical properties of 3D micro-metric pantographic metamaterials fabricated by two-photon polymerization. *Contin. Mech. Thermodyn.*, 36, 1755–1766.

8. Stavrou, M.*, **Zyla, G.**, Ladika, D., Dumur, F., Farsari, M., Gray, D.* (2024): Push-pull carbazole-based dyes: synthesis, strong ultrafast nonlinear optical response, and effective photoinitiation for multiphoton lithography. *ACS Appl. Opt. Mater.*, 2, 1653–1666.
9. **Zyla, G.***, and Farsari, M. (2024): Frontiers of Laser-Based 3D Printing: A Perspective on Multi-Photon Lithography. *Laser Photonics Rev.*, 2301312.
10. **Zyla, G.***, Maconi, G., Nolvi, A., Marx, J., Ladika, D., Salmi, A., Melissinaki, V., Kassamakov, I., Farsari, M. (2024): 3D micro-devices for enhancing the lateral resolution in optical microscopy. *Light: Adv. Manuf.*, 5, 19.
11. **Zyla, G.***, Kovalev, A., Esen, C., Ostendorf, A., Gorb, S. (2022): Two-photon polymerization as a potential manufacturing tool for biomimetic engineering of complex structures found in nature. *J. Opt. Microsyst.*, 2, 031203.
12. **Zyla, G.***, Kovalev, A., Gurevich, E. L., Esen, C., Liu, Y., Lu, Y., Gorb, S., Ostendorf, A. (2020): Structural colors with angle-insensitive optical properties generated by Morpho-inspired 2PP structures. *Appl. Phys. A*, 126, 740.
13. **Zyla, G.***, Surkamp, N., Gurevich, E. L., Esen, C., Klehr, A., Knigge, A., Hofmann, M. R., Ostendorf, A. (2020): Two-photon polymerization with diode lasers emitting ultrashort pulses with high repetition rate. *Opt. Lett.*, 45, 4827–4830.
14. Surkamp, N.*, **Zyla, G.**, Gurevich, E. L., Klehr, A., Knigge, A., Ostendorf, A., Hofmann, M. R. (2020): Mode-locked diode laser-based two-photon polymerisation. *Electron. Lett.*, 56.
15. **Zyla, G.***, Kovalev, A., Heisterkamp, S., Esen, C., Gurevich, E. L., Gorb, S., Ostendorf, A. (2019): Biomimetic structural coloration with tunable degree of angle-independence generated by two-photon polymerization. *Opt. Mater. Express*, 9, 2630–2639.
16. **Zyla, G.***, Kovalev, A., Grafen, M., Gurevich, E. L., Esen, C., Ostendorf, A., Gorb, S. (2017): Generation of bioinspired structural colors via two-photon polymerization. *Sci. Rep.*, 7, 17622.
17. Staudinger, U.*, **Zyla, G.**, Krause, B., Janke, A., Fischer, D., Esen, C., Voit, B., Ostendorf, A. (2017): Development of electrically conductive microstructures based on polymer/CNT nanocomposites via two-photon polymerization. *Microelectron. Eng.*, 179, 48–55.
18. Köhler, J.*, Kutlu, Y., **Zyla, G.**, Ksouri, S. I., Esen, C., Gurevich, E. L., Ostendorf, A. (2017): Optical assembly of microsnap-fits fabricated by two-photon polymerization. *Opt. Eng.*, 56(10), 105105.

PUBLICATIONS WITHOUT PEER REVIEW PROCESS:

1. **Zyla, G.***, Solak, M., Gurevich, E. L., Esen, C., Ostendorf, A. (2016): Direct fabrication of microstructures with holographic Two-Photon-Lithography. Proceeding of the 17th International Symposium on Laser Precision Microfabrication, 1–5.
2. **Zyla, G.***, Ksouri, S. I., Köhler, J., Esen, C., Ostendorf, A. (2016): Building with lightfabrication and assembly of micro structures. Laser & Photonics, AT-Fachverlag GmbH, 2016.
3. **Zyla, G.***, Ksouri, S. I., Köhler, J., Esen, C., Ostendorf, A. (2015): Bauen mit Licht - Herstellung und Montage von Mikrostrukturen. Photonik 6.2015, AT-Fachverlag GmbH, 2015.

PATENTS:

1. DE 10 2020 115 869 A1, Herstellung eines Objekts mittels Zwei-Photonen-Polymerisation. Ruhr-University Bochum. Zyla, G., Surkamp, N., Gurevich, E. L., Esen, C., Hofmann, R. M., 2021. Share of the invention: 40%.
 2. WO 2021/254777 A1, Herstellung eines Objekts mittels Zwei-PhotonenPolymerisation/Production of an object by way of two-photon polymerization. Ruhr-University Bochum. Zyla, G., Surkamp, N., Gurevich, E. L., Esen, C., Hofmann, R. M., 2021. Share of the invention: 40%.
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INVITED PRESENTATIONS AT INTERNATIONAL CONFERENCES/SCIENTIFIC MEETINGS

- 2026 **Zyla, G.*:** Micro-optics and metasurfaces via multi-photon polymerization. *SPIE Photonics West*, San Francisco, United States.
- 2025 **Zyla, G.*,** Ladika, D., Melissinaki, V., Stavrou, M., Kassamakov, I., Papamakarios, S., Zografopoulos, D.C., Christoforidou, A., Kenanakis, G., Tsilipakos, O., Farsari, M.: Advanced micro-optics and metasurfaces via multi-Photon lithography. *Lazeriai. Mokslas ir technologijos 2025*, Vilnius, Lithuania.
- 2025 **Zyla, G.*,** Ladika, D., Melissinaki, V., Stavrou, M., Kassamakov, I., Papamakarios, S., Zografopoulos, D.C., Christoforidou, A., Kenanakis, G., Tsilipakos, O., Farsari, M.: Multi-photon lithography for advanced micro-optics and large-area metasurfaces. *META 2025*, Malaga, Spain.
- 2025 **Zyla, G.*,** Ladika, D., Melissinaki, V., Stavrou, M., Marx, J., Kassamakov, I., Farsari, M.: Micro-optics fabricated by high-precision multi-photon lithography. *10th Symposium on Optical Coatings for Laser Applications*, Vilnius, Lithuania.
- 2024 **Zyla, G.*,** Ladika, D.*: Multi-photon lithography for optics and photonics. *Marie Skłodowska-Curie Actions Staff Exchange*, University of Tokyo, Japan.
- 2024 **Zyla, G.*:** Tsilipakos, O., Zografopoulos, D., Papamakarios, S., Farsari, M. Laser-based 3D printing of structures to control electromagnetic radiation: Bridging 2D, 2.5D, and 3D. *META 2024*, Toyama, Japan
- 2024 **Zyla, G.*:** Seminar and workshop: High-Precision Laser-based 3D Printing of Micro-Optical Elements. *EuroPhotonics Scholar*, Vilnius University, Lithuania.
- 2024 **Zyla, G.*:** Laser-based 3D printing of novel optical devices. *SPIE Photonics West*, San Francisco, United States.
- 2023 **Zyla, G.*:** Metamaterials and optical microelements printed by two-photon polymerization. *International Workshop on Laser Material Processing and Applications 2023*, Hida Takayama, Japan.
- 2023 **Zyla, G.*:** 3D printing at the micro- and nanoscale: a power approach for engineering future applications, *SPIE Photonics West*, San Francisco, United States.