Curriculum Vitae
January 2025

Dr. Dimitrios C. Zografopoulos

1. GENERAL INFORMATION

1.1 Personal Details

Date of birth	05/07/1980
Work address	- Aristotle University of Thessaloniki (AUTH), Faculty of Engineering, School of Electrical and Computer Engineering (SECE), University Campus, 54124, Thessaloniki, Greece - Consiglio Nazionale delle Ricerche, Istituto per la Microelettronica e Microsistemi (CNR-IMM), Via del fosso del cavaliere 100, 00133, Rome, Italy
Position	Associate Professor (AUTH-SECE) Senior Researcher (part-time, CNR-IMM)
E-mail	dzogra@ece.auth.gr; dimitrios.zografopoulos@artov.imm.cnr.it
Telephone	+39 342 1870126 (mob.) // +39 06 4993 4571 (office)
Webpage	@ AUTH-SECE Photonics Group

1.2 Academic Qualifications

11/2003 – 04/2009	**Ph.D. in Electrical and Computer Engineering** (with honors), Aristotle University of Thessaloniki, Department of Electrical and Computer Engineering (DECE). PhD dissertation title: "*Photonic crystal optical fibers with tunable polarization properties*".
10/1998 – 10/2003	**Diploma in Electrical and Computer Engineering**, DECE-AUTH, (5-year curriculum, Beng+Integrated Master). Grade: **8.25 (**top 7% in ranking).
10/2006 – 11/2010	**Bachelor in History & Archaeology**, AUTH, School of History and Archaeology (4-year curriculum, specialization in History). Grade: **8.78** (excellent).

1.3 Professional Experience

01/2025 – …	**Associate Professor**, Aristotle University of Thessaloniki, School of Electrical and Computer Engineering (SECE).
01/2023 – ...	**Senior Researcher**, Consiglio Nazionale delle Ricerche, Istituto per la Microelettronica e Microsistemi (Italian National Research Council, Institute for Microelectronics and Microsystems). Part-time since 01/2025.

09/2011 – 12/2022 **Researcher**, CNR-IMM. The first two years (09/2011-08/2013) in the frame of a Marie-Curie Intra-European Fellowship. Permanent position since December 2018.

02/2011 – 08/2011 **Visiting Professor**, Department of Electronic Technology, Carlos III University of Madrid (Leganés, Spain). Fixed-term contract in the frame of the program "Talent Human Resources" for young researchers.

10/2010 – 01/2011 **Lab Assistant Professor**, (ex) Informatics and Communications Department, Technological Educational Institute of Central Macedonia (Serres, Greece).

1.4 Awards and Distinctions

09/2011 – 08/2013 **Postdoctoral Marie-Curie Intra-European Fellowship** awarded by the European Commission. Project: "Tunable liquid-crystal long-range surface plasmon polariton components" (Project Number: FP7-PEOPLE-2010-IEF-273528). Principal Investigator (PI): Dr. R. Beccherelli, budget: 180.084€.

07/2011 – 01/2012 **Postdoctoral research fellowship** awarded by the States Scholarship Foundation of Greece. Project title: "Design and analysis of optimized non-linear components in integrated silicon photonics technology". PI: Prof. E. E. Kriezis, budget: 7.200€.

01/2010 – 12/2010 **Postdoctoral research fellowship of excellence** awarded by the Research Committee of the Aristotle University of Thessaloniki. Project title: "Design and analysis of optimized photonic crystal fibers for dispersion compensation applications". PI: Prof. E. E. Kriezis, budget: 6.000€.

10/2006 – 10/2008 **Doctoral Fellowship** awarded by General Secretariat of Research and Technology, Ministry of Education and Religious Affairs of Greece, in the frame of the project PENED'2003 "Design and development of novel devices for microwave and optical communications". PI: Prof. T. D. Tsiboukis, total budget: 132.790€, fellowship budget: 27.000€.

2007 **Scholarship** awarded by the States Scholarship Foundation of Greece for the first year of my studied in the School of History and Archaeology (AUTH).

1999 **Scholarship** awarded by the States Scholarship Foundation of Greece for my enrollment in the School of Electrical and Computer Engineering through nationwide entry level exams (4th in ranking).

1.5 Executive Summary

Publications:

- Articles published in international peer-reviewed journals: 113
- Proceedings in international conferences: 107
- Proceedings in national conferences: 17
- Book chapters: 3
- Impact Factor/published article: 3.4

Citations:

- Total citations [Google Scholar/Scopus/WoS]: 3569/3044/2740
- Third-party citations [Scopus/WoS]: 2129/2175
- Total third-party citations: 2219
- h-index [Google Scholar/Scopus/WoS]: 34/31/31
- Stanford's Top 2% Scientists Ranking (single-year, 2020-2023)

2. TEACHING EXPERIENCE

2.1 Teaching of Undergraduate Courses

2024 – Teaching of the undergraduate course «**Optics**», part of the curriculum of SECE-AUTH (7th semester, optional). The course content covers ray and Gaussian optics, mirrors, lenses, main optical instruments, apertures, aberrations, wave optics, interference and interferometry, Fraunhofer and Fresnel diffraction, introduction to Fourier Optics.

02/2011 – 07/2011 Teaching of the undergraduate course «**Optical devices and transmission media**» part of the "Telematic Engineering" curriculum of the Department of Electronic Technology, Carlos III University of Madrid (DET-CIIIM). The course content covered optical sources and detectors, transmission media of optical signals, common photonic components in optical communication networks and design of optical communication links.

10/2004 – 06/2008 Teaching assistant for the undergraduate courses "**Electromagnetic Field Theory I, II, III, IV**" at DECE-AUTH. The course content covered electrostatic fields, systems of conductors and capacitors, fields due to steady currents, magnetostatic fields, electromagnetic induction, magnetic circuits, forces on particles, Maxwell's equations, boundary value problems, plane electromagnetic waves, guided waves and metallic waveguides, transmission lines, antennas and radiation and planewave reflection and refraction.

2.2 Teaching of Postgraduate Courses

02/2011 – 07/2011 Teaching of the undergraduate course «**Optical devices and transmission media**» part of the "Advanced Electronic Systems" curriculum of (DET-CIIIM). The course content covered optical fiber properties, cabling and links, couplers and wavelength multiplexing devices and sensor network applications.

2.3 Teaching of Laboratory Courses

10/2010 – 01/2011 Teaching of the laboratory course "**Communications I**" at the (ex) Informatics and Communications Department, Technological Educational Institute of Central Macedonia (ICD-TEICM). The course content covered the use of digital oscilloscope, measurements of sinusoidal signals, amplifiers, filters, oscillators, and amplitude and frequency modulation.

10/2010 – 01/2011 Teaching of the laboratory course "**Calculus I, Linear Algebra**" at the (ex) Informatics and Communications Department, Technological

Educational Institute of Central Macedonia (ICD-TEICM). The course content covered an introduction to the use of MATLAB for the resolution of differential calculus problems, matrix algebra and differential equations.

2.4 Seminars

03/2011 — Educational seminar of 6-hour duration on the topic «**Photonic Crystal Fibers: Physics and Applications**» in the frame of the postgraduate curriculum of (DET-CIIIM).

2.5 Diploma Thesis Supervision

- Supervision of one bachelor thesis entitled «Simulation study of optical fiber communications», C. Ttofalis, ICD-TEICM (01/2011).

- Co-supervision of two diploma thesis (5th year project) during my Ph.D. studies at DECE-AUTH:
  - E. Psara, «Investigation of index-guiding photonic crystal fibers by means of the multipole expansion method» (06/2008), supervisor: Prof. E. E. Kriezis.
  - D. Sarri, «Investigation of index-guiding photonic crystal fibers by means of the finite-element method» (06/2008), supervisor: Prof. E. E. Kriezis.

2.6 Accreditations

- Accredited for the position of Associate Professor in the Scientific Sector 09/F1 "Electromagnetic Fields" by the Italian Ministry of University and Research valid from 2021 to 2032 (Abilitazione Nazionale Scientifica).

3. RESEARCH ACTIVITY

3.1 Research Experience and Research Agenda

- Metasurfaces with strong Mie-type, toroidal or bound states in the continuum resonances.
- Tunable metamaterials and metasurfaces by means of liquid crystals and semiconductors.
- Components for the control of guided waves at millimeter and THz frequencies, e.g., polarizers, filters, leaky-wave antennas, beam-steerers, and lenses.
- Characterization of electromagnetic properties of dielectric and 2D materials through THz spectroscopy.
- Tunable lenses, diffraction gratings and other planar photonic devices by means of liquid crystals in the visible and near-infrared spectrum.
- Computational methods in the time domain for the simulation of electromagnetic wave propagation in dispersive and/or anisotropic media.
- Plasmonic traveling-wave of resonant switching elements by means of liquid crystals and electro-optic polymers.
- Tunable photonic crystal fibers for single-polarization or high-birefringence guidance and polarization-control components.

3.2 Research Project Leading (total funding secured: 0.44 M€)

09/2024 – 08/2027 **UnderwAter optical wireless communication network architecture empowered by adVanced opticAl materiaLs for sea bOrder protection and deep-sea exploratioN (AVALON),** European Defence Fund (EDF-2023-LS-RA-SMERO). I participate as PI for CNR-IMM with budget: 229.807,51€. Total budget: 3.994.552,51€, PI: Symeon Simeonidis (Artemis Research & Innovation S.r.l.). AVALON envisions the design of reliable and flexible, secure and private, scalable wireless system that supports high-speed communication (in the order of 10 Gbps to 100 Gbps) in beyond optical line of sight transmission distances that reach 100 m.

09/2023 – 08/2025 **All-dielectric resonant metasurfaces enhancing photon emission phenomena**, Italian Ministry of University and Research, Relevant National Interest Projects (Progetti di Rilevante Interesse Nazionale, PRIN), 2022 call. I participate as co-PI with budget for CNR-IMM: 84.800€. Total budget: 200.000€, PI: Prof. Francesco Dell'Olio (Politecnico di Bari). The project targets the design and experimental demonstration of strongly resonant dielectric metasurfaces for the enhancement of light generation applications in the visible spectrum, e.g. fluorescence microscopy and electron photoemission.

01/2023 – 12/2025 **Two-dimensional nanomaterials toward terahertz optoelectronic applications**, Italian National Research Council, Bilateral Projects with the Bulgarian Academy of Sciences (BAS). Budget for CNR-IMM: 6.000€, PI for BAS: Prof. Vera Marinova (Institute of Optical Materials and

Technologies, BAS). Bilateral collaboration project aiming at the experimental study of 2D transition metal dichalcogenide materials by means of THz spectroscopy, μRaman, X-ray diffraction.

01/2022 – 12/2023 **Strongly resonant all-dielectric metasurfaces based on quasi-dark and toroidal modes** Italian National Research Council, Bilateral Projects with the São Paulo Research Foundation (FAPESP). Budget for the CNR-IMM: 44.000€, PI for FAPESP: Prof. Hugo Hernández-Figueroa (School of Electrical and Computer Engineering, University of Campinas – UNICAMP). Bilateral collaboration project aiming at the theoretical investigation of novel strongly resonant dielectric metasurfaces for narrowband filtering, sensing and the enhancement of non-linear processes. Experimental demonstration at millimeter, THz, and near-infrared frequencies.

04/2021 – 03/2023 **Design of anti-reflection coatings**, commercial contract with the company MBDA Italy S.p.A. (25.000€+VAT) for the design and development of a demonstrator of an ultrawideband absorber at microwave frequencies.

01/2019 – 12/2022 **Transparent electrodes for advanced liquid-crystal tunable devices**, Italian National Research Council, Bilateral Projects with the Bulgarian Academy of Sciences (BAA). Budget for CNR-IMM: 11.500€, PI for BAS: Prof. Vera Marinova (IOMT-BAS). Bilateral collaboration project aiming at the development and experimental study of 2D or thin-film materials (graphene, ITO, AZO) as transparent electrodes for electro-optic components.

01/2019 – 06/2021 **Ultra-broadband spectroscopy for the detection of emerging contaminants in Boka Kotorska Bay**, Italian National Research Council, Bilateral Projects with the Ministry of Science of Montenegro (MSM). Budget for the CNR-IMM: 5.000€, PI for MSM: Dr. Danijela Joksimović (Institute of Marine Biology, University of Montenegro). Bilateral collaboration project aiming at the spectroscopic study of microplastics in biological samples from the Bay of Kotor.

01/2014 – 12/2015 **Liquid-crystal tunable nanoplasmonic structures based on periodic metallic films**, Italian Ministry of Foreign Affairs and International Cooperation, Bilateral Projects with the Ministry of Education, Science, and Technological Development (MEST) of the Republic of Serbia. Budget for the CNR-IMM: 27.731€, PI for MEST: Prof. Dr. Goran Isić (Institute of Physics, University of Belgrade). "Great Relevance" Bilateral Project for the development of electro-optic modulators tunable via liquid crystals based on metal-insulator-metal resonant cavities.

3.3 Research Project Participation

01/2025 – 12/2026 **Metasurface antennas for high data-rate sub-THz wireless indoor communications** Italian National Research Council, Bilateral Projects with the National Council for Scientific and Technological Development of Brasil (CNPq). Budget for the CNR-IMM: 20.000€, PI for FAPESP: Prof. Hugo Hernández-Figueroa (School of Electrical and Computer Engineering, University of Campinas – UNICAMP). PI for CNR-IMM: Dr. Walter Fuscaldo. Bilateral collaboration project aiming at the development of metasurface-based antennas for sub-THz communication links.

07/2022 – 06/2025 **Rome Technopole, Innovation Ecosystem.** Innovation Ecosystem with the participation of universities, research bodies and companies of the Lazio Region financed by the Italian National Recovery and Resilience Plan (PNRR), Project ECS00000024, call n. 327, PNRR-Mission 4, Comp. 2, Inv. 1.5. Budget for the CNR-IMM: 991.359€, personal budget: 129.232€. The project aims at the development of novel materials and devices for THz communications.

01/2020 – 06/2023 **Graphene-enhanced on-chip nanophotonics for switching and lasing applications**, Hellenic Foundation for Research & Innovation (Project Number: HFRI-FM17-2086), 2019-2022. Budget: 187.927€, PI: Prof. Emmanouil E. Kriezis. Participation as External Collaborator. Research on high-confinement silicon waveguides and resonant cavities loaded with graphene and exploitation of graphene saturable absorption for the demonstration of all-optical switching components and on-chip light sources.

02/2016 – 06/2019 **AMC/Metamaterial Antennas for Broadband Connectivity**, European Space Agency (ESA), TRP project (ESA ITT AO/1-7992/14/NL/MH), PI: Ingegneria dei Sistemi S.p.A. Budget for the CNR-IMM: 101.000€, PI for CNR-IMM: Dr. Romeo Beccherelli. The project aimed at the design and experimental demonstration of a leaky-wave metasurface antenna for the Ka-band with electrically tunable radiation angle through the use of nematic liquid crystals.

01/2015 – 12/2018 **On-chip novel optical modulator**, Qatar National Research Fund (National Priority Research Program: NPRP 7-456-1-985), PI: Prof. Lamees Shahada (Qatar University), budget for the CNR-IMM: 91.740$. PI for the CNR-IMM: Dr. Romeo Beccherelli. The project targeted the development of plasmonic modulators and switching components in traveling-wave or resonator configurations through the use of electro-optic polymers.

01/2014 – 12/2016 **THz lenses with electro-optically tunable focal length**, Italian Ministry of Foreign Affairs and International Cooperation, Bilateral Projects with the Ministry of International Relations and Commerce (MIRC) of the

Government of Québec (Canada). Budget for the CNR-IMM: 35.000€, PI Dr. R. Beccherelli. PI for MIRC: Prof. R. Morandotti (Institut National de la Recherche Scientifique – Centre Énergie Matériaux Télécommunications). Bilateral project for the development of electro-optically tunable lenses for THz applications.

01/2013 – 12/2015 **Functional metamaterials for spatial light modulators at THz spectrum**, Italian Ministry of Foreign Affairs and International Cooperation, Bilateral Projects with the Polish Ministry of Science and Higher Education (MSHE). Budget for the CNR-IMM: 55.000€, PI: Dr. R. Beccherelli. PI for MSHE: Prof. R. Dąbrowski (Warsaw Military University of Technology). Bilateral project for the development of electro-optically tunable components via the use of nematic liquid crystals for beam steering at THz frequencies.

01/2006 – 12/2008 **Photonic crystals for optical communications based on silicon and liquid crystals**, Italian Ministry of Foreign Affairs and International Cooperation, Bilateral Projects with the Hellenic General Secretariat for Research and Technology (GSRT). Budget: 220.000€, PI for CNR-IMM: Dr. R. Beccherelli (CNR-IMM). PI for GSRT: Prof. Emmanouil E. Kriezis. Project aiming at the investigation of planar photonic crystal cavities infiltrated with liquid crystals, emphasizing on structures based on anisotropic etching of silicon-on-insulator wafers.

01/2006 – 12/2008 **Nouveaux nanomatériaux cristaux liquides cholestériques à gradient de fonction: études expérimentales et théoriques,** Bilateral Cooperation Greece-France, GSRT, 2006-2008. Budget: 11.600€, PI: Prof. Emmanouil E. Kriezis. EY for the French part: Dr. M. Mitov (Centre d'Elaboration de Matériaux et d'Etudes Structurales, Centre National de la Recherche Scientifique, Toulouse). Theoretical investigation of novel cholesteric liquid crystals with gradient helical pitch for bandgap broadening and reflectance enhancement through polymer-stabilization and helicity inversion.

3.4 Research Mobility Projects

- Funding acquisition for the following research mobility projects (CNR short-term mobility grant):

CNR-STM-2021	Dr. Odysseas Tsilipakos, Institute of Electronic Structure and Laser, Foundation of Research and Technology.
CNR-STM-2015	Prof. Emmanouil Kriezis, Department of Electrical and Computer Engineering, AUTH.

3.5 Ph.D. Examination Panels

- Member of the examination committee for the defense of the following Ph.D. dissertations:

10/2024	Dr. Georgios Nousios, "Integrated nanophotonic elements utilizing two-dimensional materials for switching applications and light sources," Aristotle University of Thessaloniki (Greece).
12/2023	Dr. Juan Sebastian Betancourt, "Development of systems based on visible light communications for high added value applications," Carlos III Universidad de Madrid (Spain).
04/2022	Dr. Silvio Domingos Silva Santos: "All-dielectric metasurfaces based on toroidal dipole mode trimers," University of Campinas (Brazil).
11/2021	Dr. Eleni Perivolari: "Liquid crystal nano-photonic devices for efficient light manipulation from visible to THz regime," University of Southampton (UK).
06/2015	Dr. Francisco Algorri: "Adaptive micro-optical phase modulators based on liquid crystal technology," Carlos III Universidad de Madrid (Spain).

- Active participation in the co-supervision of the following Ph.D. dissertations:

02/2018	Dr. Silvia Tofani: "Static and reconfigurable devices for near-field and far-field terahertz applications," Sapienza University of Rome (Italy). Co-supervisors: Prof. A. Galli, Dr. R. Beccherelli
05/2017	Dr. Antonio Ferraro: "From basic to advanced: design, fabrication and characterization of functional terahertz devices," University of Calabria (Italy). Co-supervisors: Prof. R. Caputo, Dr. R. Beccherelli.

- Supervisor of Dr. Mahboubeh Moghadam during her research stay at CNR-IMM (07/2018-09/2018) in the frame of her Ph.D. «Analytical investigation of propagation characteristics and confinement of modes in hybrid waveguides», Arak University (Iran).

- Supervisor of Mrs. Rafaela Silveira Cardoso during her research stay at CNR-IMM (12/2023-06/2024) in the frame of her Ph.D. «Novel Fermat-spiral antennas for sidelobe reduction», University of Campinas (Brazil).

- Supervisor of Dr. Silvia Tofani during her post-doc research contract at CNR-IMM (10/2023-11/2024) in the frame of the project Rome Technopole, Innovation Ecosystem.

4. SCIENTIFIC ACTIVITY

4.1 Reviewer for International Journals

01/2007 - ...	Reviewer of more than **280** submitted papers for publication in international scientific journals.
Distinctions	Among the **25** worldwide distinguished reviewers for the year 2018 the Optical Society of America (OSA's Outstanding Reviewers).
	Among the **20** distinguished reviewers for the year 2018 of the journal «Journal of Optics», Institute of Physics (IoP Outstanding Reviewers).
Journal list	ACS Applied Nano Materials, ACS Nano, ACS Photonics, Advanced Materials, Advanced Optical Materials, Advanced Theory and Simulations, Advances in Optoelectronics, Applied Optics, Applied Physics B, Applied Physics Express, Applied Physics Letters, Applied Sciences, Biomedical Optics Express, Chinese Optics Letters, Crystals, Coatings, Current Nanoscience, Electronics, Electronics Letters, IEEE Access, IEEE Antennas and Propagation, IEEE Electronic Device Letters, IEEE Photonics Journal, IEEE Photonics Technology Letters, IEEE Journal of Selected Topics in Quantum Electronics, IEEE Microwave and Wireless Components Letters, IEEE Transactions on Antennas and Propagation, IEEE Transactions on Microwave Theory and Techniques, IEEE Transactions on Terahertz Science and Technology, IEEE Transactions on Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE/OSA Journal of Lightwave Technology, IET Microwave, Antennas & Propagation, Infrared Physics and Technology, International Journal of Nanomedicine, International Journal of Engineering Science and Technology, Journal of Applied Physics, Journal of Chemical Physics, Journal of Materials Science, Journal of Modern Optics, Journal of Nanophotonics, Journal of Optics, Journal of Optics and Laser Technology, Journal of Physics Communications, Journal of Physics D, Journal of the Optical Society of America B, Journal of Vacuum Science and Technology B, Lab on a Chip, Materials, Materials and Design Measurements, Microelectronics Engineering, Nano Letters, Nano-Micro Letters, Nanomaterials, Nanotechnology, New Journal of Physics, Optical and Quantum Electronics, Optical Engineering, Optical Materials, Optical Materials Express, Optical Materials Express, Optics and Laser Technology, Optics Communications, Optics Express, Optics Letters, Optik, Opto-electronics Review, OSA Continuum, Photonics, Photonics and Nanostructures: Fundamentals and Applications, Photonics Research, Physica Status Solidi A, Physics Letters A, Plasmonics, Results in Physics, Royal Society Open Science, Sensors, Sensors and Actuators B.

4.2 Journal Editorial Boards

2020 - … Editorial Board Member of the journal **Magnetism**, Multidisciplinary Digital Publishing Institute.

2019 - ... Editorial Board Member of the journal **Applied Sciences**, Multidisciplinary Digital Publishing Institute.

2016 - … Editorial Board Member in the sector "Condensed Matter Physics" of the journal **Scientific Reports**, Nature Publishing Group.

4.3 Project Evaluation Panels

2016 - … **European Commission (Research Executive Agency)**.
Ex-ante proposal evaluation in the frame of the calls H2020-FETOPEN, Field Emerging Technologies; H2020-MSCA-IF, Marie-Skłodowska Curie Individual Fellowships; HORIZON-MSCA-PF, Marie-Skłodowska Curie Personal Fellowships, HORIZON-EIC-PATHFINDER, European Innovation Council Pathfinder Open. *In itinere* evaluation of project implementation in the frame of the call H2020-FETOPEN.

2024 **General Secretariat for Research and Innovation, Hellenic Ministry of Development**
Ex-ante proposal evaluation in the frame of the call for National Competence Center in the field of Semiconductors.

2023 **Institute of Physics of the Czech Academy of Sciences (FZU)**
Ex-ante proposal evaluation in the frame of the call Physics for the Future (P4F) MSCA COFUND.

2021, 2024 **The Polish National Center for Research and Development**
Ex-ante proposal evaluation in the frame of the call "Applied Research", Norway Grants 2014-2021 and the Call 2024 Swiss-Polish Cooperation Programme.

2020 **Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) of Romania**
Ex-ante proposal evaluation in the frame of the call "PNCDI III - Competitiveness by research, development and innovation Experimental – Demonstration project (PED 2019)".

2019, 2024 **The Research Agency of the Slovak Republic**
Ex-ante proposal evaluation in the frame of the call Operational Programme Research and Innovation (OPRI) 2014-2020 and the "Fellowships for excellent researchers R2-R4" call in the frame of the Recovery and Resilience Plan of the Slovak Republic (RRP, Component 9).

2019 – 2020 **The Central Finance and Contracting Agency of the Republic of Latvia**
Evaluation of mid-term and final reports for "Industry Driven Research" projects in the frame of the section "Research, development of

technologies and innovation" of the program "Growth and Employment" of the European Cohesion Fund 2014-2020.

2019 — **European Commission - EUREKA**
Ex-ante proposal evaluation in the frame of the call INNOWWIDE "Viability Assessment Projects in International Markets".

2019 – 2023 — **Science Fund of the Republic of Serbia**
Ex-ante proposal evaluation in the frame of the calls PROMIS "Program for excellent projects of young researchers", IDEAS, METIS.

2015 – 2017 — **The Polish National Science Center**
Ex-ante proposal evaluation in the frame of the calls OPUS (2015 – 2016), SONATA (2016), POLONEZ (2017).

4.4 Conference Organizing Committees

- Co-chair of the "1st Workshop on Photonic Metasurfaces" within the framework of the 25th Anniversary International Conference on Transparent Optical Networks, ICTON 2025, Barcelona, Spain.
- Co-organizer of the Special Session "THz metamaterials, devices, and systems" in the conference Progress in Electromagnetic Research Symposium, PIERS 2019 (Rome, Italy).

4.5 Professional Bodies and Organizations

- Member of the Technical Chamber of Greece.
- Member of Optica (ex-Optical Society of America).

5. Administrative Positions and Delegations

5.1 Italian National Research Council (CNR)

- Responsible for the Rome Unit of CNR-IMM for the following program aiming at the development of initiatives, collaboration networks and joint projects among the Institute Units:

01/2023 – …	Workgroup AR3 "Photonics and Energy Devices"
10/2020 – 10/2022	Workgroup GdL9 "Optoelectronic devices"
03/2018 – 09/2022	Workgroup GdL10 "Plasmonics and Nanophotonics"

5.2 Italian Ministry of University and Research (MUR)

- Substitute National Delegate and Management Committee Member for the following COST actions:

11/2019 – 11/2021	COST Action CA18223 "Future communications with higher-symmetric engineered artificial materials" (2019-2021).
10/2017 – 10/2021	COST Action CA16220 "European Network for High Performance Integrated Microwave Photonics" (2017-2021).

6. Publications

6.1 Ph.D. Dissertation

«Photonic crystal optical fibers with tunable polarization properties», Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, 2009. Supervisor: Prof. T. D. Tsiboukis.

6.2 Book Chapters

[b.03] **D. C. Zografopoulos** and A. Ferraro, "Anapole states and toroidal multipole excitations in photonic metastructures," Chapter 4 in *Hybrid Flatland Metastructures*, edited by R. Caputo and G. E. Lio, American Institute of Physics Publishing (USA), Melville, New York, pp. 4.1-4.22, ISBN 978-0-7354-2287-2, 2021.

[b.02] **D. C. Zografopoulos** and R. Beccherelli, "Tunability of plasmonic devices," Chapter 7 in *NATO Science for Peace and Security Series B: Physics and Biophysics 2015*, edited by B. di Bartollo, J. Collins, and L. Silvestri, pp. 187-207, Springer, ISBN 978-94-024-0848-5, 2015.

[b.01] **D. C. Zografopoulos**, A. K. Pitilakis, and E. E. Kriezis, "Liquid crystal infiltrated photonic crystal fibers for switching applications," Chapter 3 in *Optofluidics, Sensors and Actuators in Microstructured Optical Fibers*, edited by S. Pissadakis and S. Selleri, Woodhead Publishing, Cambridge (UK), Elsevier Ltd., ISBN:978-1-78242-329-4, June 2015.

6.3 Publications in International Peer-Reviewed Journals

[a.117] V. Dmitriev, C. Oliveira, **D. C. Zografopoulos**, and A. Evangelista, "THz array of graphene disks: classification of the surface plasmon modes and their excitation," submitted, 2025.

[a.116] T. Afra, W. Fuscaldo, **D. C. Zografopoulos**, T. Natale, and F. Dell'Olio, "Tunable wide band perfect absorber for terahertz waves based on a vanadium dioxide metasurface," submitted, 2025.

[a.115] **D. C. Zografopoulos**, K. Ntokos, G. de Calan, O. Tsilipakos, A. Xomalis, L. Pethö, J. F. Algorri, W. Fuscaldo, V. Dmitriev, T. V. Yioultsis, and E. E. Kriezis, "Free-standing zirconia metasurfaces for microwave resonant polarization conversion," submitted, 2025.

[a.114] G. Zyla, S. Papamakarios, **D. C. Zografopoulos**, A. Christoforidou, G. Kenanakis, M. Farsari, and O. Tsilipakos, "Film-assisted multi-photon lithography for efficient printing of electromagnetic surface structures," revisions, 2025.

[a.113] A. Walewska, N. Bennis, T. Jankowski, P. Morawiak, **D. C. Zografopoulos**, M. Filipiak, M. Słowikowski, A. Cobo, and J. F. Algorri, "A hybrid trans-modal liquid crystal optical vortex generator," *Optics and Laser Technology,* 181 (B), 111849, 2025.

[a.112] **D. C. Zografopoulos**, I. Dionisiev, N. Minev, G. Petrone, F. Maita, L. Maiolo, D. Dimitrov, V. Marinova, A. Liscio, V. Mussi, R. Beccherelli, and W. Fuscaldo, "Terahertz time-domain characterization of thin conducting films in reflection mode," *IEEE Transactions on Antennas and Propagation*, vol. 72, pp. 9301-9316, 2024. *[Selected as featured article on the journal's website]*

[a.111] T. Ritacco, **D. C. Zografopoulos**, S. Tofani, R. Beccherelli, and W. Fuscaldo, "Time- and frequency-domain THz imaging for the characterization of anticounterfeiting devices," *Advanced Materials Technology*, vol. 2024, art. no. 2401799, 2024.

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[c.105] A. La Grasta, T. Natale, W. Fuscaldo, **D. C. Zografopoulos**, and F. Dell'Olio, "Lithium niobite-based metasurface for telecom applications," 46th PhotonIcs and Electromagnetics Research Symposium, PIERS 2025 (Abu Dhabi, UAE), 2025.

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[c.103] **D. C. Zografopoulos**, F. Maita, L. Maiolo, I. Dionisiev, N. Minev, G. Petrone, S. Tofani, T. Ritacco, D. Dimitrov, V. Marinova, A. Liscio, V. Mussi, R. Beccherelli, and W. Fuscaldo, "Time-domain terahertz characterization of 2D materials and homogenized metasurfaces," NOMA2025 Mediterranean Workshop and Topical Meeting "Novel Optical Materials and Applications", (Cetraro, Italy), 2025. [invited]

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[c.100] T. Afra, T. Natale, W. Fuscaldo, **D. C. Zografopoulos**, and F. Dell'Olio, "Highly Sensitive Metamaterial Refractometric Sensor in the THz Spectrum," IEEE Sensors Applications Symposium (Naples, Italy), 2024.

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[c.98] J.F. Algorri, V. Dmitriev, H.E. Hernández-Figueroa, L. Rodríguez-Cobo, F. Dell'Olio, A. Cusano, J.M. López-Higuera, and **D. C. Zografopoulos**, "Robust quasi-BIC modes in a four cuboid cluster metasurface," 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics, META2024, (Toyama, Japan), 2024.

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[c.54] J. F. Algorri, B. García-Cámara, **D. C. Zografopoulos**, R. Vergaz, J. M. Sánchez-Pena, and R. Beccherelli, "All-dielectric anapolic metasurface based on cubic nanoparticles," 40th Progress In Electromagnetics Research Symposium, (Toyama, Japan), 2018.

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[c.51] S. Tofani, W. Fuscaldo, **D. C. Zografopoulos**, P. Baccarelli, P. Burghignioli, R. Beccherelli, and A. Galli, "Spatial dispersion analysis of homogenized metasurfaces for terahertz leaky-wave antennas," 12th European Conference on Antennas and Propagation, (London, UK), 2018.

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[c.49] A. Ferraro, **D. C. Zografopoulos**, R. Caputo, and R. Beccherelli, "Terahertz narrowband transmission filters based on guided mode resonant metallic gratings," VI International School and Conference on Photonics, (Belgrade, Serbia), ISBN: 978-86-82441-46-5, D.C.10, 2017.

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[c.45] **D. C. Zografopoulos**, G. Sinatkas, E. Lotfi, L. A. Shahada, M. A. Swillam, E. E. Kriezis, and R. Beccherelli, "Infrared tunable absorbers based on electro-optically controlled conducting oxides," 8th International Conference on Metamaterials, Photonic Crystals, and Plasmonics, (Seoul, South Korea), 2017.

[c.44] W. Fuscaldo, S. Tofani, **D. C. Zografopoulos**, P. Baccarelli, P. Burghignioli, R. Beccherelli, and A. Galli, "A reconfigurable multilayered THz leaky-wave antenna employing liquid crystals," 11th European Conference on Antennas and Propagation, (Paris, France), ISBN: 978-8-8907-0187-0, ISBN: 978-1-4673-8485-8, 2017.

[c.43] S. Tofani, **D. C. Zografopoulos**, M. Missori, and R. Beccherelli, "Polymeric zone plates for THz focusing," 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), (Copenhagen, Denmark), ISBN: 978-1-4673-8485-8, 2016.

[c.42] **D. C. Zografopoulos**, A. Ferraro, G. Isić, B. Vasić, R. Gajić, and R. Beccherelli, "Tunable terahertz metamaterials based on nematic liquid crystals," 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), (Copenhagen, Denmark), ISBN: 978-1-4673-8485-8, 2016.

[c.41] A. Ferraro, **D. C. Zografopoulos**, M. Missori, M. Peccianti, R. Caputo, and R. Beccherelli, "Terahertz polarizer on flexible and conformal substrate," 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), (Copenhagen, Denmark), ISBN: 978-1-4673-8485-8, 2016.

[c.40] A. Ferraro, **D. C. Zografopoulos**, R. Caputo, and R. Beccherelli, "Mechanically tunable Bragg filters for terahertz applications," 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), (Copenhagen, Denmark), 2016.

[c.39] K. P. Prokopidis, **D. C. Zografopoulos**, C. Kalialakis, and A. Georgiadis, "Improved propagation modeling in ultra-wideband indoor communication systems utilizing vector fitting technique of the dielectric properties of building materials," 27th Annual IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications – PIMRC: Fundamentals and Physics, (Valencia, Spain), 2016.

[c.38] **D. C. Zografopoulos**, M. A. Swillam, L. A. Shahada, and R. Beccherelli, "Hybrid plasmonic directional coupler switches and modulators," 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, (Malaga, Spain), 2016. [invited]

[c.37] **D. C. Zografopoulos**, M. A. Swillam, and R. Beccherelli, "Hybrid plasmonic add-drop filter based on novel micro-ring-disk resonators with fJ switching energy," 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, (Malaga, Spain), 2016. [invited]

[c.36] **D. C. Zografopoulos**, G. Isić, B. Vasić, R. Gajić, and R. Beccherelli, "Reconfigurable THz metamaterials based on nematic liquid crystals," 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, (Malaga, Spain), 2016. [invited]

[c.35] G. Sinatkas, **D. C. Zografopoulos**, A. K. Pitilakis, R. Beccherelli, and E. E. Kriezis, "Transparent conducting oxide electro-optic modulators: a study based on the Drift-Diffusion semiconductor model," 18th European Conference on Integrated Optics (Warsaw, Poland), art. no. o-27 2016.

[c.34] A. O. Zaki, N. H. Fouad, **D. C. Zografopoulos**, R. Beccherelli, and M. A. Swillam, "Low-power compact hybrid plasmonic double-microring electro-optical modulator," SPIE Photonics West, Integrated Optical Components and Materials XIII (San Francisco, USA), art. no. 97441K 2016.

[c.33] S. Sherif, **D. C. Zografopoulos**, L. Shahada, R. Beccherelli, and M. A. Swillam, "Near infrared plasmonic sensor based on Fano resonance," SPIE Photonics West, Integrated Optics: Devices, Materials, and Technologies XX (San Francisco, USA), art. no. 97500F, 2016.

[c.32] **D. C. Zografopoulos**, M. A. Swillam, and R. Beccherelli, "Hybrid plasmonic modulators based on electro-optic polymers,"6th European Optical Society Topical Meeting on Optical Microsystems (Capri, Italy), 2015.

[c.31] **D. C. Zografopoulos**, A. Ferraro, G. Isić, B. Vasić, R. Gajić, and R. Beccherelli, "Liquid-crystal tunable terahertz metamaterials and absorbers,"6th European Optical Society Topical Meeting on Optical Microsystems (Capri, Italy), 2015.

[c.30] G. Isić, **D. C. Zografopoulos**, R. Beccherelli, V. Milošević, B. Jokanović, and R. Gajić, "Liquid crystal reflection modulators based on coupled terahertz resonant cavities," V International School and Conference on Photonics, (Belgrade, Serbia), art. no. P.DC.10, p. 123, 2015.

[c.29] **D. C. Zografopoulos**, M. A. Swillam, L. Shahada, and R. Beccherelli, "Hybrid electro-optical plasmonic modulators and switches for integrated optical signal processing," 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics, (New York, USA), 2015. [invited]

[c.28] **D. C. Zografopoulos**, K. P. Prokopidis, E. E. Kriezis, and R. Beccherelli, "Time-domain modeling of dispersive and lossy liquid-crystals," 5th International Workshop on Liquid Crystals for Photonics, (Erice, Italy), 2014.

[c.27] **D. C. Zografopoulos**, R. Beccherelli, and E. E. Kriezis, "Zenithal bistable liquid-crystal gratings as tunable beam splitters," 5th International Workshop on Liquid Crystals for Photonics, (Erice, Italy), 2014.

[c.26] **D. C. Zografopoulos** and R. Beccherelli, "Tunable metamaterials based on nematic liquid crystals," 5th International Workshop on Liquid Crystals for Photonics, (Erice, Italy), 2014. [invited]

[c.25] G. Isić, B. Vasić, C., **D. C. Zografopoulos**, R. Beccherelli, and R. Gajić, "Liquid-crystal tunable critically-coupled terahertz metamaterial absorbers," 5th International Workshop on Liquid Crystals for Photonics, (Erice, Italy), 2014.

[c.24] **D. C. Zografopoulos**, A. Pitilakis, E. E. Kriezis, "Liquid-crystal tunable photonic crystal fiber polarization switch," 12th European Conference on Liquid Crystals ECLC 2013 (Rhodes, Greece), 2013.

[c.23] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal long-range plasmonic switches," 12th European Conference on Liquid Crystals ECLC 2013 (Rhodes, Greece), 2013.

[c.22] **D. C. Zografopoulos** and R. Beccherelli, "Long-range plasmonic electro-optic directional coupler switches," 5th European Optical Society Topical Meeting on Optical Microsystems (Capri, Italy), 2013.

[c.21] **D. C. Zografopoulos** and R. Beccherelli, "Long-range plasmonic electro-optic switches," 20th Conference on Liquid Crystals, (Mikołaiki, Poland), 2013. [invited]

[c.20] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable long-range surface plasmon polariton waveguides and directional couplers," 11th Mediterranean Workshop and Topical Meeting "Novel optical materials and applications", June 10-15, Cetraro, Italy, 2013. [invited]

[c.19] O. Tsilipakos, **D. C. Zografopoulos**, and E. E. Kriezis, "Soliton-Like Propagation in Dispersion-Managed Silicon Nanowaveguides," European Conference on Lasers and Electro-Optics and XIIIth International Quantum Electronics Conference CLEO/EUROPE-IQEC, (Munich, Germany), 2013.

[c.18] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable plasmonic stripe directional coupler switches," SPIE Europe 2013, Microtechnologies for the New Millenium, (Grenoble, France), art. no. 876712, 2013.

[c.17] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable long-range surface plasmon polariton waveguides and directional couplers," 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics, (Dubai, UAE), 2013. [invited]

[c.16] **D. C. Zografopoulos**, R. Asquini, E. E. Kriezis, A. d'Alessandro, and R. Beccherelli, "Guided-Wave Liquid-Crystal Photonics," 4th Workshop on Liquid Crystals for Photonics (Hong Kong), 2012. [invited]

[c.15] R. Beccherelli and **D. C. Zografopoulos**, "Long-range plasmonic waveguides controlled by nematic liquid crystals," 2012 IEEE Photonics Conference, (San Francisco, CA, USA), pp. 684-685, ISBN: 978-1-4577-0733-9, 2012.

[c.14] **D. C. Zografopoulos**, R. Beccherelli, and E. E. Kriezis, "Quasi-soliton formation in silicon nanowires with engineered dispersion profile," EOS Annual Meeting 2012 (Aberdeen, Scotland, UK), ISBN 978-3-9815022-4-4, 2012.

[c.13] R. Beccherelli and **D. C. Zografopoulos**, "Tunable liquid-crystal long-range plasmonic stripe waveguides," EOS Annual Meeting, (Aberdeen, Scotland, UK), ISBN 978-3-9815022-4-4, 2012.

[c.12] **D. C. Zografopoulos** and C. Vázquez, "Microstructured polymer optical fiber Bragg grating sensors for fuel quality control," 20th International Conference on Plastic Optical Fibers, (Bilbao, Spain), pp. 257-262, 2011.

[c.11] A. C. Tasolamprou, M. Mitov, **D. C. Zografopoulos**, and E. E. Kriezis, "Hyperreflective polymer- stabilized cholesteric LCs," 13th Topical Meeting on the Optics of Liquid Crystals OLC 2009 (Erice, Italy), 2009.

[c.10] M. Mitov, N. Dessaud, A. C. Tasolamprou, **D. C. Zografopoulos**, and E. E. Kriezis, "Going beyond the reflectance limit of cholesteric liquid crystals: experimental and theoretical investigations," ESF Workshop on Frontiers in European Research on Liquid Crystalline Soft Matter, (Bandol, France), 2009.

[c.09] R. Beccherelli, B. Bellini, A. C. Tasolamprou, **D. C. Zografopoulos**, and E. E. Kriezis, "Tunable optical properties of three-dimensional silicon-on-insulator photonic crystal slab structures," 2nd International Workshop on Liquid Crystals for Photonics, (Cambridge, UK), PA 4, pp. 83-84, 2008.

[c.08] A. C. Tasolamprou, B. Bellini, **D. C. Zografopoulos**, E. E. Kriezis, and R. Beccherelli, "Tunable optical properties of three-dimensional silicon-on-insulator photonic crystal slab structures," First Mediterranean Photonics Conference MedPhoton 2008 (Ischia, Italy), pp. 110-112, 2008.

[c.07] **D. C. Zografopoulos** and E. E. Kriezis, "Polarization properties of liquid-crystal infiltrated photonic crystal fibers," IEEE International Conference on Transparent Optical Networks ICTON 2008 (Athens, Greece), art. no. Mo.B2.5, pp. 12-16 (vol II), 2008. [invited]

[c.06] **D. C. Zografopoulos**, E. E. Kriezis, and T. D. Tsiboukis, "Polarization properties of hybrid-guiding liquid-crystal microstructured fibers," IEEE Conference on Electromagnetic Field Computation CEFC 2008 (Athens, Greece), PA4-13, pp. 66, 2008.

[c.05] **D. C. Zografopoulos**, E. E. Kriezis, B. Bellini, and R. Beccherelli, "Tunable one-dimensional photonic crystal slabs," SPIE Microtechnologies for the New Millennium 2007 (Gran Canaria, Spain), 2007. Proceedings of SPIE Vol. 6593 Photonic Materials, Devices, and Applications II, (Edited by A. Serpengüzel, G. Badenes, G. Righini) 659314 2007 [invited]

[c.04] **D. C. Zografopoulos**, E. E. Kriezis, and T. D. Tsiboukis, "Optical Fiber Polarization Elements based on Long-Period-Gratings in Photonic Crystal Fibers," 15th International Workshop on Optical Waveguide Theory and Numerical Modelling OWTNM 2007 (Copenhagen, Denmark), pp. 24, 2007.

[c.03] M. Mitov, **D. C. Zografopoulos**, E. E. Kriezis, and C. Binet, "Theoretical and experimental analysis of cholesteric broadband reflectors with thermally induced pitch gradients," 21st International Liquid Crystal Conference ILCC'2006 (Colorado, USA), OPTIP-4, 2006.

[c.02] **D. C. Zografopoulos** and E. E. Kriezis, "Polarisation-maintaining and highly-birefringent liquid-crystal photonic crystal fibers," International Conference on Transparent Optical Networks (Nottingham, UK), We.P.13, Vol. IV, p. 255, 2006.

[c.01] **D. C. Zografopoulos**, E. E. Kriezis, and T. D. Tsiboukis, "Single-polarization and controllable birefringence guidance in liquid-crystal microstructured fibers," 14th International Workshop on Optical Waveguide Theory and Numerical Modelling OWTNM 2006 (Varese, Italy), p. 58, 2006.

6.5 Publications in National Conferences

[n.17] S. K. Sighano, T. Ritacco, M. D. L. Bruno, O. Gennari, W. Fuscaldo, **D. C. Zografopoulos**, J. M. Djouda, T. Maurer, R. Beccherelli, R. Caputo, and A. Ferraro, "Opuntia ficus-indica extraction based anticounterfeiting tag functions at optical and terahertz band," Plasmonica 2024 - Workshop Nazionale di Plasmonica e Applicazioni, p. 61, (Messina, Italy), 2024.

[n.16] A. Ferraro, A. Tanga, **D. C. Zografopoulos**, G. Messina, M. Ortolani, and R. Beccherelli, "Terahertz filter with flat-top transmission response," Plasmonica 2019 - Workshop Nazionale di Plasmonica e Applicazioni, (Rome, Italy), 2019.

[n.15] A. Ferraro, **D. C. Zografopoulos**, M. A. Verschuuren, D. K. G. de Boer, F. Kong, H. P. Urbach, R. Beccherelli, and R. Caputo "Photoluminescent nanograting for lighting application," Plasmonica 2019 – Workshop Nazionale di Plasmonica e Applicazioni, (Rome, Italy), p. XX, 2019.

[n.14] A. Ferraro, **D. C. Zografopoulos**, R. Caputo, and R. Beccherelli, "Terahertz guided-mode resonant filtering components," Fotonica – 20o Convegno Italiano delle Tecnologie Fotoniche, (Lecce, Italy) 2018.

[n.13] W. Fuscaldo, S. Tofani, P. Burghignoli, P. Baccarelli, **D. C. Zografopoulos**, R. Beccherelli, and A. Galli, "Reconfigurable Fabry-Perot cavity leaky-wave antennas based on nematic liquid crystals for THz applications," XXI Riunione Nazionale di Elettromagnetismo, (Parma, Italy), 2016.

[n.12] A. Ferraro, **D. C. Zografopoulos**, M. Missori, M. Peccianti, R. Caputo, and R. Beccherelli, "Flexible terahertz wire grid polarizers with high extinction ratio and low loss," Fotonica – 18o Convegno Italiano delle Tecnologie Fotoniche, (Rome, Italy) 2016.

[n.11] **D. C. Zografopoulos**, G. Isić, B. Vasić, R. Gajić, and R. Beccherelli, "Tunable terahertz metamaterials based on nematic liquid crystals," Fotonica – 18o Convegno Italiano delle Tecnologie Fotoniche, (Rome, Italy) 2016.

[n.10] S. M. Sherif, L. Shahada, **D. C. Zografopoulos**, R. Beccherelli, and M. Swillam, "On-chip novel optical modulator," Qatar University Annual Research Forum, 2015.

[n.09] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tuneable plasmonic devices," SICL 2014 – 11o Congresso Nazionale Società Italiana Cristalli Liquidi, (Ravena, Italy), 2014.

[n.08] **D. C. Zografopoulos** and R. Beccherelli, "Gap plasmon waveguides and filters tuned by nematic liquid crystals," Plasmonica 2014 – Workshop Nazionale di Plasmonica e Applicazioni, (Rome, Italy), p. XX, 2014.

[n.07] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable plasmonic switches," Plasmonica 2014 – Workshop azionale di Plasmonica e Applicazioni, (Rome, Italy), 2014.

[n.06] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable fishnet terahertz metamaterials," Fotonica – 16o Convegno Italiano delle Tecnologie Fotoniche, (Napoli, Italy), 2014.

[n.05] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable plasmonic switches," Fotonica – 16o Convegno Italiano delle Tecnologie Fotoniche, (Napoli, Italy), p. XX, 2014.

[n.04] **D. C. Zografopoulos** and R. Beccherelli, "Liquid-crystal tunable long-range surface plasmon polariton components," SICL 2012 – 10o Congresso Nazionale Società Italiana Cristalli Liquidi, (Rome, Italy), p. 29, 2012.

[n.03] **D. C. Zografopoulos** and C. Vázquez, "Dual-core photonic crystal fibers for tunable polarization mode dispersion compensation," OPTOEL11 – VII Reunión Española de Optoelectrónica, (Santander, Spain), S1-5, 2011.

[n.02] R. Beccherelli, B. Bellini, **D. C. Zografopoulos**, A. C. Tasolamprou, and E. E. Kriezis, "Sensore fotonico ultracompatto basato su cristallo fotonico di silicio," Elettroottica 2008 – 10o Convegno Nazionale Strumentazione e metodi di misura elettroottici, (Milan, Italy), 2008.

[n.01] R. Beccherelli, B. Bellini, **D. C. Zografopoulos**, A. C. Tasolamprou, and E. E. Kriezis, "Lamina a band gap fotonico unidimensionale sintonizzabile basata su microlavorazione del silicio," Fotonica – 10o Convegno Nazionale sulle Tecniche Fotoniche nelle Telecomunicazioni, (Mantova, Italy), pp. 437–441, 2007.

6.6 Other Presentations and Lectures

[t.07] **D. C. Zografopoulos**, "Bound states in the continuum in dielectric metasurfaces," Applied and Computational Electromagnetics Laboratory School of Electrical and Computer Engineer, University of Campinas, 1st December 2022.

[t.06] A. Ferraro, **D. C. Zografopoulos**, R. Caputo, and R. Beccherelli, "Narrowband terahertz transmission filters based on guided mode resonant gratings," COST Action IC1208, 9th Management Committee Meeting, University of Luxembourg, 17th March 2017.

[t.05] **D. C. Zografopoulos**, B. Vasić, G. Isić, R. Gajić, and R. Beccherelli, "Design of liquid-crystal tunable metamaterial polarization rotators for terahertz applications," COST Action IC1208, 8th Management Committee Meeting, Warsaw Military University, 9th September 2016.

[t.04] A. Ferraro, **D. C. Zografopoulos**, M. Missori, M. Peccianti, R. Caputo, and R. Beccherelli, "Low-loss flexible terahertz polarizers with high extinction ratio," COST Action IC1208, 7th Management Committee Meeting, Vilnius University, 15th April 2016.

[t.03] **D. C. Zografopoulos**, "Liquid-crystal tunable devices: from fiber optics to terahertz metamaterials," Institute of Electronic Structure and Lasers, Foundation for Research and Technology - Hellas, February 2016.

[t.02] **D. C. Zografopoulos**, R. Beccherelli, and E. E. Kriezis, "Zenithal bistable liquid-crystal gratings as tunable beam splitters," COST Action IC1208, 5th Management Committee Meeting, Bilkent University, 27th March 2015.

[t.01] **D. C. Zografopoulos**, "Liquid-crystal tunable photonic components," University of Belgrade, Institute for Physics, June 2014.

7. Other Skills and Experience

7.1 Professional Experience

05/2009 – 01/2010	**Operator of digital terminal devices**, during my compulsory military service in the Signal Corps of the Hellenic Army.
10/2003 – 05/2004	**Technical and sales assistant**, LCF International, Wholesale Security Systems, Ioustinianou 4, 55134, Thessaloniki (Greece).
10/2000 – 05/2001 10/2002 – 05/2003	**Language teacher** (Spanish) in courses for adults at the Young Women Christian Association (YWCA), 54624, Thessaloniki (Greece).
07/2000 – 08/2000	**Intern Engineer**, in the frame of the student exchange program I.A.E.S.T.E. at *LG New Vision Factory, Sahab, Amman (Jordan)*.

7.2 Computer and Software Skills

Operating Systems	Windows, MacOS.
Scientific Software	MATLAB, Comsol Multiphysics, FlexPDE, LaTeX.
CAD Software	Fusion 360.
Web development	Joomla.

7.3 Foreign Languages

English (C2)	Certificate of Proficiency in English, University of Cambridge.
Italian (C2)	Certificato di Conoscenza della Lingua Italiana (CELI 5), Università di Perugia
Spanish (C2)	Diploma Superior de Español, Universidad de Salamanca
Portuguese (B2)	Diploma Intermédio de Português Língua Estrangeira, Universidade de Lisboa
French (B2)	Diplôme d'Études en Langue Française, Ministère de l'Éducation Nationale
Serbian (B2)	Ispit srpskog kao stranog jezika, Filološki Fakultet u Beogradu
Russian (B2)	Русский язык повседневного общения. Постпороговый уровень, Государственный институт русского языка им. А. С. Пушкина
German (B1)	Zertifikat Deutsch, Goethe Institut Inter Nationes
Bulgarian (B1)	

7.4 Other Skills

- Accredited tourist guide from the Ministry of Tourism, Hellenic Republic, in four languages: Greek, English, Italian, and Spanish (License No: 30TA02966E1).
- Diploma in Paleography, issued by the Center for Hagiological Studies of the Holy Metropolis of Thessaloniki, 2005.
- Driving license (Category B vehicle).