

Curriculum Vitae

Personal data

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Studies

- 1998 PhD, Physics Department, Aristotle University of Thessaloniki, Greece
Title: *“A Study of the operational parameters of photorefractive materials in optical information processing systems”*
- 1995 MSc, Department of Electronic studies (Radio-Electronics), Physics Department, Aristotle University of Thessaloniki, Greece
- 1991 BSc, Physics Department, Aristotle University of Thessaloniki, Greece

Professional and Research experience

- 1/2019- Associate Professor, Materials Science and Technology Department, University of Crete
- 5/2010-1/2019 Assistant Professor (tenure 7/2014), Materials Science and Technology Department, University of Crete
- 8/2005 - 6/2010 Lecturer Materials Science and Technology Department, University of Crete.
- 10/2003 to 8/2005 Application Scientist, Institute of Electronic Structure and Laser, Foundation of Research and Technology
- 3/2000 to 10/2003 Associate Researcher, Institute of Electronic Structure and Laser, Foundation of Research and Technology
- Spring Semesters of academic years 2000-2001 until 2002-2003 Visiting Assistant Professor of the Physics Department of University of Crete.

Publications – Citations

Publications: **75** publications in refereed international journals, **49** conference presentations, **2** Book chapters

Citations: **2058/1914** citations , *h* index **25** , (5/2020) (Web of Science)

Researcher ID: [D-9146-2013](#)

Scientific interests

1. Wavefront shaping and sensing
2. Novel optical wave packets and light bullets
3. Nonlinear interactions of ultra-short laser pulses with transparent media
4. Laser microfabrication (in bulk structuring of dielectrics, micro-mechanics, diffractive surface structures).
5. Dynamic holography, photorefractive materials
6. Optical engineering

Funding-participation in EC/National competitive projects

- CEMIC “*Cavity-Enhanced Microscopy*”, Horizon 2020 ATTRACT, Contract No. 777222 (2019-2020),
- OBST2 “*Optical Breadboard Technologies for Complex Space Missions*”, Contract No. 4000127622/19/NL/BJ/va European Space Agency (ESA), 2019-2020.
(*WP leader, project leader: Dr. Wolf von Klitzing*)
- PULSE «*High-Power Ultrafast LaSErs using Tapered Double-Clad Fibre*», H2020-ICT-2018-2 (PID: 824996), 2019-2022
(*Researcher, Local PI: Dr. Maria Farsari*)
- OBST “*Optical Breadboard Technologies for Complex Space Missions*”, Contract No. 4000112744/14/NL/PA European Space Agency (ESA), 2015-2016.
(*WP leader, project leader: Dr. Wolf von Klitzing*)
- “*Wireless optical telecommunications beyond the horizon*” John S. Latsis Public Benefit Foundation, scientific studies 2013,
(*Project leader*)
- “MULTIRAD”, Marie Curie Excellence grand, (2006-2010),
(*Researcher, project leader: Prof. Stelios Tzortzakis*)
- “Holographic Authenticity Sensors (HolAuthentic)”, FP5-GROWTH, G6RD-CT-1999-00145 Competitive and Sustainable Growth, EC, 2000-2003,
(*Researcher, scientific coordinator: Prof. Ioanna Zergioti*)

Reviewer in Scientific Journals

Science, Physical Review Letters, Optics Letters, Optics Express, Optical Materials Express, Applied Optics, Applied Physics Letters, Applied Physics A, Optics Communications, Optical Engineering, Journal of Crystal Growth, Journal of Non Crystalline Solids, Journal of Optics A

Conference organization

1. Chair in Session, “Photonics I”, international congress DGP 2017, March 6-10, 2017, Mainz, Germany
2. Member of the scientific committee of the Bragg Gratings, Photosensitivity and Poling in Glass Waveguides (BGPP) 7 - 21 June 2012, Cheyenne Mountain Resort, Colorado Springs, Colorado, United States
3. Member of the scientific committee of the Bragg Gratings, Photosensitivity and Poling in Glass Waveguides (BGPP) 21-24 June 2010, Karlsruhe, Germany
4. Chair in Session, “Short Presentations for Poster Session”, international congress LAMP 2009, June 29 July 2, 2009, Kobe, Japan
5. Chair in Session 1-5 (Applications of Femtosecond Lasers in Materials Science), international Symposium LPM 2007, 24-28 April 2007, University of Vienna, Vienna, Austria.
6. Chair in Session 8 (Nanostructuring II) in the international conference Applications of Femtosecond Lasers In Materials Science (FemtoMat 2004), Bad Kleinkirchheim, Carinthia, 25-28 Feb 2004.
7. Member of the local steering committee of the international conference on Laser Ablation (COLA), which will take place in Hersonissos Crete, Greece, during 5-10 October 2003.
8. Co-chair in Session 2 of Symposium 3 of the international Conference Laser Advance Materials Processing (LAMP2002), Osaka, Japan, 27 - 21 May2002

Teaching

Undergraduate

- Introduction to Materials Science (ETY-141), (2005-presently)
<http://www.materials.uoc.gr/el/undergrad/courses/ETY141>

Sort Description: *The course builds the foundations of an interdisciplinary approach that combines Physics, Chemistry and Mathematics in understanding the properties of materials and strategies for material design.*

In 2013 the course lecture's material (~230 slides) has been redesigned for the Open Academic Digital Courses of the University of Crete (<http://opencourses.uoc.gr/>)

- Optics and Waves (ETY-302), (2008-presently)
<http://www.materials.uoc.gr/el/undergrad/courses/ETY302/>

Sort Description: *The course is an introduction to classical optics covering from waves, Maxwell equations, polarization, interference, and diffraction to geometrical optics and optical system design. The lecture's material (~340 slides), extensively redesigned in 2013, is freely available from the courses' website. (> 100 participants/year)*

Graduate

- Foundations of Modern Optics (*in replacement of Optics I*) (2017-presently)
<https://www.materials.uoc.gr/el/grad/courses/METY901/>
- Wave Optics and Optical Metrology (*in replacement of Optics I*) (2017-presently)
<https://www.materials.uoc.gr/el/grad/courses/METY902/>
- Optics I (Optics and Vision Interdisciplinary MSc Program), (2003-presently)
Sort Description: *The course starts from an introduction to classical wave optics and focuses on geometrical optics and optical system design. (>12 participants/year)*
- Optics II (Optics and Vision Interdisciplinary MSc Program), (2003-presently)
Sort Description: *The course focuses on classical wave optics covering Maxwell and wave equation's, polarization, interference and diffraction.. (~ 10 participants/year)*

PhD theses

- Michael Mylonakis, “*Wavefront Shaping for Microscopic Imaging of Biological Samples*”, ongoing, started June 2018,-, (co-supervised with Dr. Giannis Zacharakis, IESL-FORTH)
- Dimitrios Mansour, “*Design and engineering of optical wave packets with application in materials science*”. ongoing, started November 2016, (HFRI scholarship)
- Ioannis Drougkakis, “*Coherent Matter Wave Imaging for Direct Atom Lithography*”, ongoing, started November 2016-, (co-supervised with Dr. Wolf von Klitzing, IESL-FORTH) , (HFRI scholarship)
- Evangelos Skoulas, “*Ultrashort pulse spectral polarization shaping for materials processing and imaging applications*”, ongoing, started November 2016 (co-supervised with Dr. Manolis Stratakis, IESL - FORTH)
- Co-supervisions
 - Maria Manousidaki, “*Tailored Laser Wave Packets for Advanced Micro/Nano-Structuring of Materials*”, PhD Thesis (2019)
(supervisor Prof. Stelios Tzortzakis)
 - Paris Panagiotopoulos, “*Numerical Modeling of the Nonlinear Propagation of Ultrashort Laser Pulses in Transparent Materials*”, PhD Thesis (2012)
(supervisor Prof. Stelios Tzortzakis)
 - Daryoush Abdollahpour, “*Nonlinear Laser Propagation Phenomena in Transparent Media*”, PhD Thesis (2011),
(supervisor Prof. Stelios Tzortzakis)

I have supervised/co-supervised the following MSc/Diploma theses:

- Evangelos Tzardis, “*White light interferometry in vision science applications*”, MSc thesis (2020)

- Matina Vlachou, “*High Resolution Optical Topography*”, MSc Thesis, (2019)
- Apostolos Brimis, “*Orbital Angular Momentum and Accelerating Optical Wavepackets*”, MSc Thesis, (2018)
- Michael Mylonakis, “*Optical systems for imaging ultra-cold atoms*”, MSc thesis, (2018), (co-supervised with Dr. Wolf von Klitzing)
- Karavanakis Odysseas, “*Moth-eye structures for light trapping in thin organic solar cells*”, MSc Thesis, (2018)
- Kostas Mayrakis, “*Novel optical breadboard beam steering techniques for space application*”, MSc thesis, (2017), (co-supervised with Dr. Wolf von Klitzing)
- George Tzifis, “*Spectroscopic analysis of lenses and sunglasses*” MSc thesis (2017)
- Dimitris Mansour, “*Design techniques for the generation of novel optical wavepackets*”, MSc Thesis, (2016)
- Ioannis Filippakis, “*Autofocusing accelerating optical beams*”, MSc Thesis, (2016)
- Ioannis Drougakis, “*Vibrational and Angular Stability of Optical Systems for Space Applications*”, MSc thesis, (2015), (co-supervised with Dr. Wolf von Klitzing)
- Petros Chatzakis, “*Development and Optimization of a High-Resolution Small Angle Light Scattering setup for Rheological applications*”, MSc Thesis, (2015), (co-supervised with Prof. George Petekidis)
- Anastasia Gianakopoulou, “*Propagation of non-diffracting beams in scattering media*”, MSc Thesis, (2012),
- Michalis Apostolopoulos “*Abel inversion techniques in holographic microscopy*”, MSc Thesis, (2009),
- Eirini Tsiapa, “*FTIR Spectroscopy and applications in ophthalmology*” MSc Thesis, (2008)
- Giannis Orphanos, “*White light profilometry*”, MSc Thesis, (2008)
- Despina Adamidou, “*Study and characterization of nanostructures induced by ultrafast laser pulses in transparent media*”, Undergraduate Diploma Thesis, (2008)
- Paris Panagiotopoulos, “*Spectral interferometry with application in dynamic profilometry*”, MSc Thesis, (2007)
- Aristeia Maniadaki, “*Analysis and wavefront reconstruction methods with applications in human vision*”, MSc Thesis, (2007)
- Dimitris Theodoridis, “*Computerized Ray-tracing*”, MSc Thesis, (2006)
- Michalis Loulakis “*Interaction of ultrafast laser with transparent media*”, MSc Thesis, (2005)

Administrative duties

University of Crete

Placement

Scientific coordinator of the placement project of the University of Crete (11/2017 –)

Lifelong Education

Member of the Committee of LifeLong Education- Training and diaspora communities of the University of Crete (6/2016 –8/2018)

Materials Science and Technology Department

Undergraduate

- Scientific coordinator of the placement project of the Materials Science and Technology Department. (2007-2015)
- Member of the Undergraduate Studies Coordination committee of the Materials Science and Technology Department. (2010-2015)

Graduate

- Member of the Managing Faculty Committee of the “Biomedical Engineering” MSc Program (2019-presently)
- Deputy director and Member of the Interdepartmental Faculty Committee of the “Optics and Vision” MSc Program (2003- presently)

Invited lectures – Seminars

1. *“Shaped optical wave packets for photonics applications”*, invited talk in Synthesis and Photonics of Nanoscale Materials XVII, LASE/PhotonicsWest 2020, 1 - 6 February 2020, San Francisco, USA
2. *“Novel optical beams, from accelerating wavepackets to Janus waves”*, Group presentation in the international conference DPG 2017, March 6-10, 2017, Mainz, Germany
3. *“Using optical aberrations to generate tunable intense Airy beams and tailored filaments”*, invited talk in the international Symposium COFIL 2010, May 31-June 5, 2010, Agia Pelagia, Greece
4. *“Dynamics of ultrafast laser induced modifications in fused silica. From electronic excitation to permanent structures”*, invited talk in the 7th symposium "SiO₂ , advanced dielectrics and related devices", June 30th to July 2nd, 2008, Saint-Etienne, France
5. *“Micro-filamentation induced permanent structural modifications in fused silica with intense sub-picosecond ultraviolet laser pulses”* invited talk in the international Symposium LPM 2007, 24-28 April 2007, University of Vienna, Vienna, Austria
6. *“Ultra fast UV lasers in novel materials micro-printing applications”* invited talk in the international conference Applications of Femtosecond Lasers In Materials Science (FemtoMat 2004), Bad Kleinkirchheim, Carinthia, 25-28 Feb 2004.
7. *“Ultra-short laser materials processing and visualization”* invited talk, Physics Department, University Milano Bicocca, Italy, 29 May 2003
8. Invited lecturer in the 2nd, 3rd, 4th, 5th and 6th international “Summer School in Visual Optics”, held respectively in Santorini (5-10 July 2003), Olympia (27-30 June 2004), Heraklion (20 June- 1 July 2005), Rethymnon (July 1-6 2006) and Heraklion (26 June - 1 July) Greece. Lectures in Geometrical and Wave optics

Publications in refereed journals (Total: 75)

1. A. Brimis, K. G. Makris, and **D.G. Papazoglou***, "Tornado Waves", Opt. Lett., **45**, 280 (2020).
2. M. Manousidaki, **D. G. Papazoglou***, M. Farsari, and S. Tzortzakis*, "3D holographic light shaping for advanced multiphoton polymerization", Opt. Lett. **45**, 85 (2020). [Editor's Pick]
3. G. Drougakis, K. G. Mavrikis, S. Pandey, G. Vasilakis, K. Poullos, **D. G. Papazoglou**, and W. von Klitzing*, "Precise and robust optical beam steering for space optical instrumentation," CEAS Sp. J. 1–7 (2019).
4. M. Manousidaki, **D. G. Papazoglou**, M. Farsari, and S. Tzortzakis*, "Long-scale multiphoton polymerization voxel growth investigation using engineered Bessel beams," Opt. Mater. Express **9**, 2838 (2019).
5. V. Y. Fedorov, **D. G. Papazoglou**, and S. Tzortzakis*, "Transformation of ring-Airy beams during efficient harmonic generation," Opt. Lett. **44**, 2974 (2019).
6. M. Mylonakis, S. Pandey, K.G. Mavrikis, G. Drougakis, G. Vasilakis, **D. G. Papazoglou** and W.von Klitzing*, "Simple precision measurements of optical beam sizes," Appl. Opt. **57** (33), 9863 (2018).
7. D. Mansour and **D. G. Papazoglou***, "Ultra-broadband tunable continuous phase masks using optical aberrations," Opt. Lett. **43**, 5480 (2018).
8. D. Mansour and **D. G. Papazoglou***, "Tailoring the focal region of abruptly autofocusing and autodefocusing ring-Airy beams," OSA Continuum 1, 104 (2018).
9. M. Manousidaki, V. Y. Fedorov, **D. G. Papazoglou**, M. Farsari, and S. Tzortzakis, "Ring-Airy beams at the wavelength limit," Opt. Lett. **43**, 1063 (2018).
10. A. D. Koulouklidis, **D. G. Papazoglou***, V. Y. Fedorov, and S. Tzortzakis, "Phase Memory Preserving Harmonics from Abruptly Autofocusing Beams", Phys. Rev. Lett. **119**, 223901 (2017). [Editor's Suggestion]
11. K. G. Makris, **D. G. Papazoglou**, and S. Tzortzakis, "Invariant superoscillatory electromagnetic fields in 3D-space" J. Opt. **19**, 14003 (2017)
12. **D. G. Papazoglou***, V. Y. Fedorov, and S. Tzortzakis, "Janus Waves", Opt. Lett. **41**, 4656 (2016). [Editor's Pick]
13. M Manousidaki, **D. G. Papazoglou**, M. Farsari, and S. Tzortzakis, "Abruptly autofocusing beams enable advanced multiscale photo-polymerization", Optica **3**, 525 (2016).
14. K. Liu, A. D. Koulouklidis, **D. G. Papazoglou**, S. Tzortzakis, and X.-C. Zhang, "Enhanced terahertz wave emission from air-plasma tailored by abruptly autofocusing laser beams", Optica **3**, 605 (2016).
15. P. Panagiotopoulos, A. Couairon, M. Kolesik, **D. G. Papazoglou**, J. V. Moloney, and S. Tzortzakis, "Nonlinear plasma-assisted collapse of ring-Airy wave packets", Phys. Rev. A **93**, 33808 (2016).
16. P. Panagiotopoulos, **D. G. Papazoglou**, A. Couairon, and S. Tzortzakis, "Controlling high-power autofocusing waves with periodic lattices," Opt. Lett. **39**, 4958-4961 (2014).
17. **D. G. Papazoglou***, D. Abdollahpour and S. Tzortzakis "Ultrafast electron and material dynamics following femtosecond filamentation induced excitation of transparent solids",

Appl. Phys. A **114**, 161 (2014) [Invited]

18. P. Panagiotopoulos, **D. G. Papazoglou**, A. Couairon, and S. Tzortzakis, "*Sharply autofocused ring-Airy beams transforming into non-linear intense light bullets*," Nat. Commun. **4**, 2622 (2013).
19. S. Suntsov, D. Abdollahpour, **D. G. Papazoglou**, P. Panagiotopoulos, A. Couairon, and S. Tzortzakis, "*Tailoring femtosecond laser pulse filamentation using plasma photonic lattices*," Appl. Phys. Lett. **103**, 021106 (2013).
20. I. Umezu, J. M. Warrender, S. Charnvanichborikarn, A. Kohno, J. S. Williams, M. Tabbal, **D. G. Papazoglou**, X.-C. Zhang, and M. J. Aziz "*Emergence of very broad infrared absorption band by hyperdoping of silicon with chalcogens*", J. Appl. Phys. **113**, 213501 (2013)
21. M.I. Apostolopoulos, M.I. Taroudakis, **D.G. Papazoglou***, "*Application of inverse Abel techniques in in-line holographic microscopy*", Opt. Comm. **296**, 25 (2013)
22. M. Bellec, P. Panagiotopoulos, **D. G. Papazoglou**, N. K. Efremidis, A. Couairon, and S. Tzortzakis, "*Observation and optical tailoring of photonic lattice filaments*", Phys. Rev. Lett. **109**, 113905 (2012)
23. P. Panagiotopoulos, D. Abdollahpour, A. Lotti, A. Couairon, D. Faccio, **D. G. Papazoglou**, and S. Tzortzakis, "*Nonlinear propagation dynamics of finite-energy Airy beams*," Physical Review A **86**, 013842 (2012)
24. N. K. Efremidis, **D. G. Papazoglou**, and S. Tzortzakis, "*Linear and nonlinear waves in surface and wedge index potentials*," Opt. Lett. **37**, 1874 (2012).
25. D. Faccio, G. Tamošauskas, E. Rubino, J. Darginavičius, **D. G. Papazoglou**, S. Tzortzakis, A. Couairon, and A. Dubietis, "*Cavitation dynamics and directional microbubble ejection induced by intense femtosecond laser pulses in liquids*," Phys. Rev. E **86**, 036304 (2012).
26. D. Faccio, E. Rubino, A. Lotti, A. Couairon, A. Dubietis, G. Tamošauskas, **D. G. Papazoglou**, and S. Tzortzakis, "*Nonlinear light-matter interaction with femtosecond high-angle Bessel beams*," Physical Review A **85**, 033829 (2012).
27. Stegeman G., M.G. Kuzyk, **D. G. Papazoglou**, and S. Tzortzakis, "*Off-resonance and non-resonant dispersion of Kerr nonlinearity for symmetric molecules*", Opt. Express **19** (23) 22486-22495 (2011) [Invited]
28. D. Abdollahpour, **D. G. Papazoglou**, and S. Tzortzakis, "*Four-dimensional visualization of single and multiple laser filaments using in-line holographic microscopy*," Physical Review A **84**, 053809 (2011).
29. A. Lotti, D. Faccio, A. Couairon, **D. G. Papazoglou**, P. Panagiotopoulos, D. Abdollahpour, and S. Tzortzakis, "*Stationary nonlinear Airy beams*," Physical Review A **84** (2), 021807 (2011).
30. D. Abdollahpour, S. Suntsov, **D. G. Papazoglou**, and S. Tzortzakis, "*Measuring easily electron plasma densities in gases produced by ultrashort lasers and filaments*," Opt. Express **19** (18), 16866-16871 (2011).
31. **D. G. Papazoglou*** and S. Tzortzakis, "*Physical mechanisms of fused silica restructuring and densification after femtosecond laser excitation*," Opt. Mater. Express **1** (4), 625-632 (2011) [Invited]
32. P. Panagiotopoulos, A. Couairon, N.K. Efremidis, **D. G. Papazoglou**, and S. Tzortzakis, "*Intense dynamic bullets in a periodic lattice*", Opt. Express **19**, 10057 (2011)

33. **D. G. Papazoglou***, E. K. Efremidis, D. N. Christodoulides, and S. Tzortzakis, "Observation of abruptly autofocusing waves", *Opt. Lett.* **36**, 1842 (2011)
34. G. Stegeman, **D. G. Papazoglou**, R. Boyd and S. Tzortzakis, "Nonlinear birefringence due to non-resonant, higher-order Kerr effect in isotropic media.", *Opt. Express* **19**, 6387 (2011).
35. P. Panagiotopoulos, N.K. Efremidis, **D.G. Papazoglou**, A. Couairon, and S. Tzortzakis, "Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices" *Phys. Rev. A* **82**, 061803(R) (2010)
36. D. Abdollahpour, S. Suntsov, **D. G. Papazoglou** and S. Tzortzakis, "Spatiotemporal Airy Light Bullets in the Linear and Nonlinear Regimes", *Phys. Rev. Lett.* **105**, 253901 (2010)
37. **D. G. Papazoglou***, S. Suntsov, D. Abdollahpour, and S. Tzortzakis, "Tunable intense Airy beams and tailored femtosecond laser filaments", *Physical Review A*, **81**, 061807(R) (2010)
38. S. Suntsov, D. Abdollahpour, **D. G. Papazoglou**, and S. Tzortzakis, "Filamentation-induced third-harmonic generation in air via plasma-enhanced third-order susceptibility," *Physical Review A* **81**, 033817 (2010).
39. S. Suntsov, D. Abdollahpour, **D.G. Papazoglou** and S. Tzortzakis, "Femtosecond laser induced plasma diffraction gratings in air as photonic devices for high intensity laser applications", *Appl. Phys. Lett.* **94**, 251104 (2009)
40. D. Abdollahpour, P. Panagiotopoulos, M. Turconi, O. Jedrkiewicz, D. Faccio, P. Di Trapani, A. Couairon, **D. G. Papazoglou**, and S. Tzortzakis, "Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams", *Opt. Express* **17**, 5052-5057 (2009)
41. S. Suntsov, D. Abdollahpour, **D. G. Papazoglou**, and S. Tzortzakis, "Efficient third-harmonic generation through tailored IR femtosecond laser pulse filamentation in air", *Opt. Express* **17**, 3190-3195 (2009)
42. Drozd V.E., Nikiforova I.O., Bogevolnov V.B., Yafyasov A.M., Filatova E.O., **Papazoglou D.** "ALD synthesis of SnSe layers and nanostructures", *J. Phys. D-Appl. Phys.* **42**, 125306 (2009)
43. D. Faccio, M. Clerici, A. Averchi, A. Lotti, O. Jedrkiewicz, A. Dubietis, G. Tamosauskas, A. Couairon, F. Bragheri, **D. G. Papazoglou**, S. Tzortzakis, P. Di Trapani, "Few-cycle laser-pulse collapse in Kerr media: The role of group-velocity dispersion and X-wave formation", *Phys. Rev. A* **78**, 033826 (2008).
44. **D. G. Papazoglou***, and S. Tzortzakis, "In-line holography for the characterization of ultrafast laser filamentation in transparent media", *Appl. Phys. Lett.* **93**, 041120 (2008)
45. A. Camposeo, L. Persano, P. Del Carro, **D. G. Papazoglou**, A. Stassinopoulos, D. Anglos, R. Cingolani, and D. Pisignano, "Longitudinal coherence of organic-based microcavity lasers", *Opt. Express* **16**, 10384-10389 (2008)
46. D. Faccio, M. Clerici, A. Averchi, O. Jedrkiewicz, S. Tzortzakis, **D. G. Papazoglou**, F. Bragheri, L. Tartara, A. Trita, S. Henin, I. Cristiani, A. Couairon, and P. Di Trapani, "Kerr-induced spontaneous Bessel beam formation in the regime of strong two-photon absorption", *Opt. Express* **16**, 8213-8218 (2008)
47. D. Faccio, A. Averchi, A. Lotti, P. Di Trapani, A. Couairon, **D. G. Papazoglou**, and S. Tzortzakis, "Ultrashort Laser Pulse Filamentation and X Wave Formation in Air", *Opt. Express* **16**, 1565-1570 (2008)
48. **D. G. Papazoglou**, I. Zergioti, S. Tzortzakis, "Plasma strings from ultraviolet laser filaments drive permanent structural modifications in fused silica", *Opt. Lett.* **32** (14): 2055 (2007).

49. I. Zergioti, K. D. Kyrkis, **D. G. Papazoglou**, S. Tzortzakis, “*Structural modifications in fused silica induced by ultraviolet fs laser filaments*” Appl. Surf. Sci. **253** (19): 7865 (2007)
50. V. Zorba, E. Stratakis, E. Spanakis, **D.G. Papazoglou**, I. Zergioti, P.Tzanetakakis and C.Fotakis, “*Field Emission properties of arrayed and continuous areas of laser fabricated Silicon microstructures*”, Journal of Nanoengineering and Nanosystems, **220**, 143-150 (2007).
51. V. M. Papadakis, A. Stassinopoulos, D. Anglos, S. H. Anastasiadis, E. P. Giannelis and **D. G. Papazoglou***, “*Single shot temporal coherence measurements of random lasing media*”, J. Opt. Soc. Am. B **24**, 31 (2007)
52. Florakis A, Tsoukalas D, Zergioti I, Giannakopoulos K, Dimitrakis P, **Papazoglou DG**, Bennassayag G, Bourdon H, Halimaoui A, “*Laser annealing of plasma implanted boron for ultra-shallow junctions in Silicon*», Nuc. Instr. Meth. In phys. Res. Sec. B - beam inter. Mat. At. **253**, 13 (2006)
53. E. Skantzakis, V. Zorba, **D. G. Papazoglou**, I. Zergioti, C. Fotakis, “*Ultraviolet laser microstructuring of silicon and the effect of laser pulse duration on the surface morphology*”, Appl. Surf. Sci., **252**, 4462 (2006)
54. **D. G. Papazoglou***, M. Loulakis, “*Embedded birefringent computer generated holograms fabricated by femtosecond laser pulses*”, Opt. Lett., **31**, 1441 (2006).
55. S. Tzortzakis, **D. G. Papazoglou**, I. Zergioti, “*Long-range fillamentary propagation of sub-picosecond ultraviolet laser pulses in fused silica*”, Opt. Lett., **31**, 796 (2006).
56. V. Zorba, P. Tzanetakakis, C. Fotakis, E. Stratakis, E. Spanakis, **D. G. Papazoglou**, I. Zergioti, “*Silicon electron emitters fabricated by UV laser pulses*”, Appl. Phys. Lett., **88**, 081103 (2006).
57. I. Zergioti, A. Karaiskou, **D. G. Papazoglou**, C. Fotakis, E. Kapsetaki, D. Kafetzopoulos, “*Time resolved schlieren study of sub-picosecond and nanosecond laser transfer of biomaterials*”, Appl. Surf. Sci. **247**, 584 (2005)
58. **D. G. Papazoglou**, I. Zergioti, S. Tzortzakis, G. Sgouros, G. Maravelias, S. Christopoulos, C. Fotakis, “*Sub-picosecond ultraviolet laser filamentation-induced bulk modifications in fused silica*”, Appl. Phys. A. **81**, 241 (2005).
59. I. Zergioti, A. Karaiskou, **D. G. Papazoglou**, E. Kapsetaki, C. Fotakis, D. Kafetzopoulos, “*Femtosecond laser microprinting of biomaterials*”, Appl. Phys. Lett. **86**, 163902 (2005)
60. **D. G. Papazoglou**, V. Papadakis, D. Anglos, “*In situ interferometric depth and topography monitoring during LIBS elemental profiling of multi-layer structures*”, J. Anal. At. Spectrom., **19**, 483 (2004)
61. N. C. Deliolanis, A. G. Apostolidis, E. D. Vanidhis, **D. G. Papazoglou** “*Diffraction properties of volume phase gratings in photorefractive sillenite crystals of arbitrary cut under the influence of an external electric field*”, Phys. Rev. E, **68**, 056602 (2003)
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2. Maria Farsari, Areti Mourka, Vasileia Melissinaki, **Dimitris G. Papazoglou**, Theodoros Tachtsidis, Andrius Melninkaitis, "High LIDT photosensitive organic-inorganic hybrid materials for nanoimprint lithography", oral presentation, Synthesis and Photonics of Nanoscale Materials XVII, LASE/PhotonicsWest 2020, 1 - 6 February 2020, San Francisco, USA
3. D. Mansour and **D.G. Papazoglou** "Shaped accelerating beams for materials processing", oral presentation, CLEO/Europe-EQEC 2019, 23 - 27 June 2019, Munich, Germany
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48. “*Measurement of the electro-optic coefficient of $Bi_{12}GeO_{20}$ (BGO), $Bi_{12}TiO_{20}$ (BTO) crystals*”, **D. G. Papazoglou**, A. G. Apostolidis, E. D. Vanidhis, poster presentation in the international conference E-MRS Spring Meeting, Strasburg, France, 4-7 June 1996
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2. "Recent Advances In Laser Processing Of Materials", J. Perriere, E. Millon, E. Fogarassy (Editors), Elsevier, Chapter title: "Direct Transfer and Microprinting of Functional Materials by Laser Induced Forward Transfer Process", K. D. Kyrkis, A.A. Andreadaki, **D.G. Papazoglou** and I. Zergioti (2006)