

# Dimitris G Papazoglou

## List of Publications by Year in descending order

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86  
papers

3,383  
citations

172207

29  
h-index

143772

57  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of abruptly autofocusing waves. <i>Optics Letters</i> , 2011, 36, 1842.	1.7	390
2	Spatiotemporal Airy Light Bullets in the Linear and Nonlinear Regimes. <i>Physical Review Letters</i> , 2010, 105, 253901.	2.9	383
3	Sharply autofocused ring-Airy beams transforming into non-linear intense light bullets. <i>Nature Communications</i> , 2013, 4, 2622.	5.8	290
4	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	2.9	190
5	Abruptly autofocusing beams enable advanced multiscale photo-polymerization. <i>Optica</i> , 2016, 3, 525.	4.8	127
6	Stationary nonlinear Airy beams. <i>Physical Review A</i> , 2011, 84, .	1.0	123
7	Femtosecond laser microprinting of biomaterials. <i>Applied Physics Letters</i> , 2005, 86, 163902.	1.5	101
8	Nonlinear propagation dynamics of finite-energy Airy beams. <i>Physical Review A</i> , 2012, 86, .	1.0	83
9	Ultrashort laser pulse filamentation from spontaneous X Wave formation in air. <i>Optics Express</i> , 2008, 16, 1565.	1.7	70
10	Tunable intense Airy beams and tailored femtosecond laser filaments. <i>Physical Review A</i> , 2010, 81, .	1.0	70
11	Emergence of very broad infrared absorption band by hyperdoping of silicon with chalcogens. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	70
12	Silicon electron emitters fabricated by ultraviolet laser pulses. <i>Applied Physics Letters</i> , 2006, 88, 081103.	1.5	67
13	Enhanced terahertz wave emission from air-plasma tailored by abruptly autofocusing laser beams. <i>Optica</i> , 2016, 3, 605.	4.8	64
14	In-line holography for the characterization of ultrafast laser filamentation in transparent media. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	60
15	In situ interferometric depth and topography monitoring in LIBS elemental profiling of multi-layer structures. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 483.	1.6	58
16	Filamentation-induced third-harmonic generation in air via plasma-enhanced third-order susceptibility. <i>Physical Review A</i> , 2010, 81, .	1.0	56
17	Efficient third-harmonic generation through tailored IR femtosecond laser pulse filamentation in air. <i>Optics Express</i> , 2009, 17, 3190.	1.7	51
18	Time resolved schlieren study of sub-picosecond and nanosecond laser transfer of biomaterials. <i>Applied Surface Science</i> , 2005, 247, 584-589.	3.1	49

#	ARTICLE	IF	CITATIONS
19	Nonlinear light-matter interaction with femtosecond high-angle Bessel beams. <i>Physical Review A</i> , 2012, 85, .	1.0	46
20	A comparative schlieren imaging study between ns and sub-ps laser forward transfer of Cr. <i>Applied Surface Science</i> , 2003, 208-209, 177-180.	3.1	45
21	ALD synthesis of SnSe layers and nanostructures. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 125306.	1.3	45
22	Femtosecond laser induced plasma diffraction gratings in air as photonic devices for high intensity laser applications. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	45
23	Shadowgraphic imaging of the sub-ps laser-induced forward transfer process. <i>Applied Physics Letters</i> , 2002, 81, 1594-1596.	1.5	39
24	Tornado waves. <i>Optics Letters</i> , 2020, 45, 280.	1.7	39
25	Physical mechanisms of fused silica restructuring and densification after femtosecond laser excitation [Invited]. <i>Optical Materials Express</i> , 2011, 1, 625.	1.6	35
26	Plasma strings from ultraviolet laser filaments drive permanent structural modifications in fused silica. <i>Optics Letters</i> , 2007, 32, 2055.	1.7	34
27	Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams. <i>Optics Express</i> , 2009, 17, 5052.	1.7	31
28	Cavitation dynamics and directional microbubble ejection induced by intense femtosecond laser pulses in liquids. <i>Physical Review E</i> , 2012, 86, 036304.	0.8	31
29	Measuring easily electron plasma densities in gases produced by ultrashort lasers and filaments. <i>Optics Express</i> , 2011, 19, 16866.	1.7	30
30	Ultraviolet laser microstructuring of silicon and the effect of laser pulse duration on the surface morphology. <i>Applied Surface Science</i> , 2006, 252, 4462-4466.	3.1	29
31	Single-shot temporal coherence measurements of random lasing media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 31.	0.9	29
32	Laser printing of active optical microstructures. <i>Applied Physics Letters</i> , 2001, 78, 868-870.	1.5	27
33	Long-range filamentary propagation of subpicosecond ultraviolet laser pulses in fused silica. <i>Optics Letters</i> , 2006, 31, 796.	1.7	27
34	3D holographic light shaping for advanced multiphoton polymerization. <i>Optics Letters</i> , 2020, 45, 85.	1.7	27
35	Phase Memory Preserving Harmonics from Abruptly Autofocusing Beams. <i>Physical Review Letters</i> , 2017, 119, 223901.	2.9	26
36	Kerr-induced spontaneous Bessel beam formation in the regime of strong two-photon absorption. <i>Optics Express</i> , 2008, 16, 8213.	1.7	25

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37	Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices. Physical Review A, 2010, 82, .	1.0	25
38	Janus waves. Optics Letters, 2016, 41, 4656.	1.7	25
39	Off-resonance and non-resonant dispersion of Kerr nonlinearity for symmetric molecules [Invited]. Optics Express, 2011, 19, 22486.	1.7	24
40	Observation and Optical Tailoring of Photonic Lattice Filaments. Physical Review Letters, 2012, 109, 113905.	2.9	24
41	Nonlinear plasma-assisted collapse of ring-Airy wave packets. Physical Review A, 2016, 93, .	1.0	24
42	Ultrafast electron and material dynamics following femtosecond filamentation induced excitation of transparent solids. Applied Physics A: Materials Science and Processing, 2014, 114, 161-168.	1.1	22
43	Laser microprinting of InOx active optical structures and time resolved imaging of the transfer process. Applied Surface Science, 2002, 197-198, 868-872.	3.1	21
44	Four-dimensional visualization of single and multiple laser filaments using in-line holographic microscopy. Physical Review A, 2011, 84, .	1.0	20
45	Sub-picosecond ultraviolet laser filamentation-induced bulk modifications in fused silica. Applied Physics A: Materials Science and Processing, 2005, 81, 241-244.	1.1	18
46	Index of refraction, optical activity and electro-optic coefficient of bismuth titanium oxide (Bi <sub>12</sub> TiO <sub>20</sub> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	16
47	Optical properties of Bi <sub>12</sub> SiO <sub>20</sub> single crystals doped with 4d and 5d transition elements. Journal of Applied Physics, 2001, 89, 2686-2689.	1.1	16
48	Few-cycle laser-pulse collapse in Kerr media: The role of group-velocity dispersion and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="sans-serif"} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave formation. Physical Review A, 2008, 78, .	1.0	16
49	Controlling high-power autofocusing waves with periodic lattices. Optics Letters, 2014, 39, 4958.	1.7	16
50	Ring-Airy beams at the wavelength limit. Optics Letters, 2018, 43, 1063.	1.7	15
51	Tailoring the focal region of abruptly autofocusing and autodefocusing ring-Airy beams. OSA Continuum, 2018, 1, 104.	1.8	15
52	Tailoring femtosecond laser pulse filamentation using plasma photonic lattices. Applied Physics Letters, 2013, 103, .	1.5	14
53	Embedded birefringent computer-generated holograms fabricated by femtosecond laser pulses. Optics Letters, 2006, 31, 1441.	1.7	13
54	Intense dynamic bullets in a periodic lattice. Optics Express, 2011, 19, 10057.	1.7	12

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55	Structural modifications in fused silica induced by ultraviolet fs laser filaments. Applied Surface Science, 2007, 253, 7865-7868.	3.1	11
56	Nonlinear birefringence due to non-resonant, higher-order Kerr effect in isotropic media. Optics Express, 2011, 19, 6387.	1.7	11
57	Simple precision measurements of optical beam sizes. Applied Optics, 2018, 57, 9863.	0.9	11
58	Long-scale multiphoton polymerization voxel growth investigation using engineered Bessel beams. Optical Materials Express, 2019, 9, 2838.	1.6	11
59	Holographic read - write projector of video images. Optics Express, 2002, 10, 280.	1.7	10
60	Application of inverse Abel techniques in in-line holographic microscopy. Optics Communications, 2013, 296, 25-34.	1.0	10
61	High laser induced damage threshold photoresists for nano-imprint and 3D multi-photon lithography. Nanophotonics, 2021, 10, 3759-3768.	2.9	10
62	Diffraction properties of volume phase gratings in photorefractive sillenite crystals of arbitrary cut under the influence of an external electric field. Physical Review E, 2003, 68, 056602.	0.8	8
63	Spiraling light: Generating optical tornados. Physical Review A, 2022, 105, .	1.0	8
64	Photorefractive properties of (1-10) and (111)-cut sillenite crystals when external electric field is applied along the direction of the optimum diffraction efficiency. Applied Physics B: Lasers and Optics, 2002, 75, 67-73.	1.1	7
65	Transformation of ring-Airy beams during efficient harmonic generation. Optics Letters, 2019, 44, 2974.	1.7	7
66	Ultra-broadband tunable continuous phase masks using optical aberrations. Optics Letters, 2018, 43, 5480.	1.7	6
67	Laser annealing of plasma implanted boron for ultra-shallow junctions in Silicon. Nuclear Instruments & Methods in Physics Research B, 2006, 253, 13-17.	0.6	5
68	Precise and robust optical beam steering for space optical instrumentation. CEAS Space Journal, 2019, 11, 589-595.	1.1	5
69	Measurement of the electro-optic coefficient of Bi <sub>12</sub> GeO <sub>20</sub> (BGO), Bi <sub>12</sub> TiO <sub>20</sub> (BTO) crystals. Synthetic Metals, 1996, 83, 281-285.	2.1	4
70	Efficiency of photorefractive diffraction in electro-optic and optically active sillenite crystals. Synthetic Metals, 1996, 83, 287-291.	2.1	3
71	Diffraction efficiency as a function of the grating vector orientation in electro-optic and optically active photorefractive crystals. Ferroelectrics, 1998, 205, 87-106.	0.3	3
72	Photorefractive optical properties of volume phase gratings induced in sillenite crystals, when the grating vector lies on the (111) plane. Applied Physics B: Lasers and Optics, 2000, 71, 841-848.	1.1	2

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73	Sub-ps laser microstructuring of soft X-ray Mo/Si multilayer gratings. Applied Physics A: Materials Science and Processing, 2003, 76, 763-766.	1.1	1
74	Longitudinal coherence of organic-based microcavity lasers. Optics Express, 2008, 16, 10384.	1.7	1
75	Linear and nonlinear waves in surface and wedge index potentials. Optics Letters, 2012, 37, 1874.	1.7	1
76	Field-emission properties of arrays and extended areas of laser-fabricated silicon microstructures. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2006, 220, 143-150.	0.1	0
77	Ultra-Broadband Partially Coherent Accelerating Beams. , 2019, , .		0
78	Shaped Accelerating Beams for Materials Processing. , 2019, , .		0
79	Radially and Angularly Accelerating Optical Wave-Packets. , 2019, , .		0
80	Generation of Tornado Waves. , 2021, , .		0
81	Terahertz Generation from Curved Two-Color Filaments Induced by 2D Airy Wave Packets. , 2021, , .		0
82	Emission of Terahertz Waves from Curved Two-Color Filaments Produced by 2D Airy Wave Packets. , 2021, , .		0
83	Experimental observation of Tornado Waves. , 2021, , .		0
84	Femtosecond laser pulse control of collapsing bubble jets and bubble ejection streams. , 2012, , .		0
85	Ultra-broadband tunable continuous phase masks using optical aberrations: publisher's note. Optics Letters, 2018, 43, 5668.	1.7	0
86	Terahertz emission from curved plasma filaments induced by two-color 2D-Airy wave packets. Optics Letters, 2022, 47, 1271-1274.	1.7	0