

Martynas Beresna

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8343085/martynas-beresna-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

2,027
citations

23
h-index

43
g-index

129
ext. papers

2,645
ext. citations

3.9
avg, IF

5.04
L-index

#	Paper	IF	Citations
84	Radially polarized optical vortex converter created by femtosecond laser nanostructuring of glass. <i>Applied Physics Letters</i> , 2011 , 98, 201101	3.4	320
83	Seemingly unlimited lifetime data storage in nanostructured glass. <i>Physical Review Letters</i> , 2014 , 112, 033901	7.4	163
82	Polarization sensitive elements fabricated by femtosecond laser nanostructuring of glass [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 783	2.6	147
81	Ultrafast manipulation of self-assembled form birefringence in glass. <i>Advanced Materials</i> , 2010 , 22, 4039-43	2.43	127
80	Ultrafast laser direct writing and nanostructuring in transparent materials. <i>Advances in Optics and Photonics</i> , 2014 , 6, 293	16.7	112
79	Single beam optical vortex tweezers with tunable orbital angular momentum. <i>Applied Physics Letters</i> , 2014 , 104, 231110	3.4	89
78	Polarization diffraction grating produced by femtosecond laser nanostructuring in glass. <i>Optics Letters</i> , 2010 , 35, 1662-4	3	70
77	Dependence of the femtosecond laser refractive index change thresholds on the chemical composition of doped-silica glasses. <i>Optical Materials Express</i> , 2011 , 1, 711	2.6	58
76	Exciton mediated self-organization in glass driven by ultrashort light pulses. <i>Applied Physics Letters</i> , 2012 , 101, 053120	3.4	58
75	Laser material processing with tightly focused cylindrical vector beams. <i>Applied Physics Letters</i> , 2016 , 108, 221107	3.4	51
74	The Femtoprint Project. <i>Journal of Laser Micro Nanoengineering</i> , 2012 , 7, 1-10	1	40
73	Stress distribution around femtosecond laser affected zones: effect of nanogratings orientation. <i>Optics Express</i> , 2013 , 21, 24942-51	3.3	38
72	Direct writing of birefringent elements by ultrafast laser nanostructuring in multicomponent glass. <i>Applied Physics Letters</i> , 2016 , 108, 071905	3.4	37
71	Photosensitivity control of an isotropic medium through polarization of light pulses with tilted intensity front. <i>Optics Express</i> , 2011 , 19, 20657-64	3.3	36
70	Femtosecond versus picosecond laser machining of nano-gratings and micro-channels in silica glass. <i>Optics Express</i> , 2013 , 21, 3946-58	3.3	35
69	Novel method for manufacturing optical fiber: extrusion and drawing of microstructured polymer optical fibers from a 3D printer. <i>Optics Express</i> , 2018 , 26, 32007-32013	3.3	34
68	Cladding-pumped ytterbium-doped fiber laser with radially polarized output. <i>Optics Letters</i> , 2014 , 39, 5359-61	3	32

67	Mid-IR Hollow-core microstructured fiber drawn from a 3D printed PETG preform. <i>Scientific Reports</i> , 2018 , 8, 8113	4.9	32
66	Extraordinary anisotropy of ultrafast laser writing in glass. <i>Optics Express</i> , 2013 , 21, 3959-68	3.3	31
65	High average power second harmonic generation in air. <i>Applied Physics Letters</i> , 2009 , 95, 121502	3.4	30
64	Polarization sensitive camera by femtosecond laser nanostructuring. <i>Optics Letters</i> , 2013 , 38, 4096-9	3	26
63	Broadband anisotropy of femtosecond laser induced nanogratings in fused silica. <i>Applied Physics Letters</i> , 2013 , 103, 131903	3.4	24
62	Effect of the femtosecond laser treatment of hydrogenated amorphous silicon films on their structural, optical, and photoelectric properties. <i>Semiconductors</i> , 2012 , 46, 749-754	0.7	24
61	Ultrafast Laser-Induced Metasurfaces for Geometric Phase Manipulation. <i>Advanced Optical Materials</i> , 2017 , 5, 1600575	8.1	23
60	Void-nanograting transition by ultrashort laser pulse irradiation in silica glass. <i>Optics Express</i> , 2016 , 24, 19344-53	3.3	23
59	Poling-assisted fabrication of plasmonic nanocomposite devices in glass. <i>Advanced Materials</i> , 2010 , 22, 4368-72	2.4	22
58	Femtosecond laser induced crystallization of hydrogenated amorphous silicon for photovoltaic applications. <i>Thin Solid Films</i> , 2014 , 556, 410-413	2.2	21
57	Giant birefringence and dichroism induced by ultrafast laser pulses in hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 2015 , 106, 171106	3.4	21
56	Point-by-point femtosecond laser micro-processing of independent core-specific fiber Bragg gratings in a multi-core fiber. <i>Optics Express</i> , 2018 , 26, 2039-2044	3.3	18
55	Airy beams generated by ultrafast laser-imprinted space-variant nanostructures in glass. <i>Optics Letters</i> , 2014 , 39, 6791-4	3	18
54	Visible luminescence from hydrogenated amorphous silicon modified by femtosecond laser radiation. <i>Applied Physics Letters</i> , 2012 , 101, 081902	3.4	18
53	Tailored surface birefringence by femtosecond laser assisted wet etching. <i>Optics Express</i> , 2015 , 23, 14283-37	3.7	15
52	Low-noise distributed acoustic sensing using enhanced backscattering fiber with ultra-low-loss point reflectors. <i>Optics Express</i> , 2020 , 28, 14638-14647	3.3	14
51	Eternal 5D data storage by ultrafast laser writing in glass 2016 ,		13
50	Optical Nanofiber Coupler Sensors Operating in the Cut-Off Wavelength Region. <i>IEEE Sensors Journal</i> , 2018 , 18, 2782-2787	4	12

49	Twisting light with micro-spheres produced by ultrashort light pulses. <i>Optics Express</i> , 2011 , 19, 18989-963,3		12
48	Toward the generation of broadband optical vortices: extending the spectral range of a q-plate by polarization-selective filtering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 190	1.7	11
47	Achromatic polarization rotator imprinted by ultrafast laser nanostructuring in glass. <i>Applied Physics Letters</i> , 2015 , 107, 181111	3.4	10
46	Saturation of absorption in noble metal doped nanocomposite glass film excited by evanescent light field. <i>Applied Physics Letters</i> , 2010 , 97, 261101	3.4	10
45	Ultraviolet photoluminescence in Gd-doped silica and phosphosilicate fibers. <i>APL Photonics</i> , 2017 , 2, 046101	5.2	9
44	Polarization sensitive anisotropic structuring of silicon by ultrashort light pulses. <i>Applied Physics Letters</i> , 2015 , 107, 041114	3.4	9
43	Control of Laser Induced Cumulative Stress for Efficient Processing of Fused Silica. <i>Scientific Reports</i> , 2020 , 10, 3819	4.9	9
42	Suspended-Core Microstructured Polymer Optical Fibers and Potential Applications in Sensing. <i>Sensors</i> , 2019 , 19,	3.8	9
41	High-performance vector bending and orientation distinguishing curvature sensor based on asymmetric coupled multi-core fibre. <i>Scientific Reports</i> , 2020 , 10, 14058	4.9	9
40	5.6 kW peak power, nanosecond pulses at 274 nm from a frequency quadrupled Yb-doped fiber MOPA. <i>Optics Express</i> , 2018 , 26, 6554-6559	3.3	8
39	Deep-UV fluorescence lifetime imaging microscopy. <i>Photonics Research</i> , 2015 , 3, 283	6	7
38	All-fiber sixth-harmonic generation of deep UV. <i>Optics Letters</i> , 2017 , 42, 4671-4674	3	7
37	Singlemoded THz guidance in bendable TOPAS suspended-core fiber directly drawn from a 3D printer. <i>Scientific Reports</i> , 2020 , 10, 11045	4.9	7
36	Structural and electrophysical properties of femtosecond laser exposed hydrogenated amorphous silicon films 2012 ,		6
35	Three-Dimensional Modeling of the Heat-Affected Zone in Laser Machining Applications. <i>Laser Chemistry</i> , 2008 , 2008, 1-6		6
34	Radially and azimuthally polarized nanosecond Yb-doped fiber MOPA system incorporating temporal shaping. <i>Optics Letters</i> , 2017 , 42, 1740-1743	3	5
33	Revealing the nanoparticles aspect ratio in the glass-metal nanocomposites irradiated with femtosecond laser. <i>Scientific Reports</i> , 2015 , 5, 13746	4.9	5
32	Modelling of reflectivity in 1D porous silicon photonic crystal. <i>Lithuanian Journal of Physics</i> , 2007 , 47, 415-419	1.1	5

31	Effect of hydrogen concentration on structure and photoelectric properties of a-Si:H films modified by femtosecond laser pulses. <i>Canadian Journal of Physics</i> , 2014 , 92, 883-887	1.1	4
30	5D Data Storage by Ultrafast Laser Nanostructuring in Glass 2013 ,		4
29	Hollow-core antiresonant terahertz fiber-based TOPAS extruded from a 3D printer using a metal 3D printed nozzle. <i>Photonics Research</i> , 2021 , 9, 1513	6	4
28	152 km-range single-ended distributed acoustic sensor based on inline optical amplification and a micromachined enhanced-backscattering fiber. <i>Optics Letters</i> , 2021 , 46, 552-555	3	4
27	Optical Tweezers with Tunable Orbital Angular Momentum 2014 ,		3
26	Discovering new properties and applications of ultrafast laser nanostructuring in transparent materials 2011 ,		3
25	Picosecond reflectance recovery dynamics of porous silicon multilayer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 249	1.7	3
24	Quill and Nonreciprocal Ultrafast Laser Writing. <i>Topics in Applied Physics</i> , 2012 , 127-151	0.5	3
23	Harnessing Ultrafast Laser Induced Nanostructures in Transparent Materials. <i>Nano-optics and Nanophotonics</i> , 2015 , 31-46	0	2
22	Near-Field Mediated 40 μ m In-Volume Glass Fabrication by Femtosecond Laser. <i>Advanced Optical Materials</i> , 2022 , 10, 2101676	8.1	2
21	Magnetic field sensor based on multi-port microcoil resonator 2017 ,		1
20	High-Peak-Power Tunable Source at 550 nm From a Frequency-Doubled Yb-Doped Fiber MOPA. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 727-730	2.2	1
19	Optical fibers for bio-sensing applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1151, 012003	0.3	1
18	High-Topological Charge Vortex Tweezers with Continuous Control of Orbital Angular Momentum by Ultrafast Laser Machining 2015 ,		1
17	Harnessing polarization spatio-temporal coupling: a new degree of freedom in ultrafast laser material processing 2015 ,		1
16	Femtosecond inscription and thermal testing of Bragg gratings in high concentration (40 mol%) germania-doped optical fibre. <i>Optics Express</i> , 2017 , 25, 32879	3.3	1
15	Post-hydrogenation of amorphous hydrogenated silicon films modified by femtosecond laser irradiation 2014 ,		1
14	Role of stress in the chemical etching of fused silica exposed to low-energy femtosecond laser pulses 2011 ,		1

13	Light coupling and enhanced backscattering in layered plasmonic nanocomposites. <i>Optics Express</i> , 2011 , 19, 1335-43	3.3	1
12	Picosecond laser machining in the bulk of transparent dielectrics: critical comparison with fs-laser direct writing 2012 ,		1
11	Analysis and applications of femtosecond-laser-induced nanogratings from UV to telecom wavelength 2012 ,		1
10	Enhanced bandwidth distributed acoustic sensing using a frequency multiplexed pulse train and micro-machined point reflector fiber.. <i>Optics Letters</i> , 2022 , 47, 529-532	3	1
9	Phase Transitions Induced by Ultrafast Laser Writing in Transparent Materials 2011 ,		1
8	Accelerating Airy Beams Generated by Ultrafast Laser Induced Space-Variant Nanostructures in Glass 2012 ,		1
7	Extruded TOPAS hollow-core anti-resonant fiber optimized for THz guidance at 0.9THz.. <i>Optics Express</i> , 2022 , 30, 13059-13069	3.3	1
6	Low bend loss femtosecond laser written waveguides exploiting integrated microcrack. <i>Scientific Reports</i> , 2021 , 11, 23770	4.9	1
5	Anisotropic nanostructure generated by a spatial-temporal manipulated picosecond pulse for multidimensional optical data storage. <i>Optics Letters</i> , 2021 , 46, 5485-5488	3	0
4	Multi-parameter optical gauge based on mode coupling effect in asymmetric index multi-core fibres. <i>Optics and Lasers in Engineering</i> , 2022 , 154, 107047	4.6	0
3	Laser assisted modification of poled silver-doped nanocomposite soda-lime glass. <i>MATEC Web of Conferences</i> , 2013 , 8, 02008	0.3	
2	Nanograting Orientation Influence on Stress Induced by Femtosecond Laser in Fused Silica. <i>MATEC Web of Conferences</i> , 2013 , 8, 04008	0.3	
1	The Puzzle of Longitudinal Electric Field Interaction with Transparent Media. <i>MATEC Web of Conferences</i> , 2013 , 8, 04006	0.3	