

Mangirdas Malinauskas

List of Publications by Citations

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143
papers

3,964
citations

33
h-index

59
g-index

202
ext. papers

4,891
ext. citations

3.5
avg, IF

5.63
L-index

#	Paper	IF	Citations
143	Ultrafast laser processing of materials: from science to industry. <i>Light: Science and Applications</i> , 2016 , 5, e16133	16.7	573
142	Ultrafast laser nanostructuring of photopolymers: A decade of advances. <i>Physics Reports</i> , 2013 , 533, 1-31	27.7	283
141	Three-dimensional laser micro- and nano-structuring of acrylated poly(ethylene glycol) materials and evaluation of their cytotoxicity for tissue engineering applications. <i>Acta Biomaterialia</i> , 2011 , 7, 967-74	10.8	181
140	Mechanisms of three-dimensional structuring of photo-polymers by tightly focussed femtosecond laser pulses. <i>Optics Express</i> , 2010 , 18, 10209-21	3.3	165
139	Femtosecond laser polymerization of hybrid/integrated micro-optical elements and their characterization. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 124010	1.7	110
138	Three-dimensional micro-/nano-structuring via direct write polymerization with picosecond laser pulses. <i>Optics Express</i> , 2011 , 19, 5602-10	3.3	103
137	Photopolymerized microscopic vortex beam generators: Precise delivery of optical orbital angular momentum. <i>Applied Physics Letters</i> , 2010 , 97, 211108	3.4	101
136	Preclinical study of SZ2080 material 3D microstructured scaffolds for cartilage tissue engineering made by femtosecond direct laser writing lithography. <i>Biofabrication</i> , 2015 , 7, 015015	10.5	100
135	3D Microporous Scaffolds Manufactured via Combination of Fused Filament Fabrication and Direct Laser Writing Ablation. <i>Micromachines</i> , 2014 , 5, 839-858	3.3	89
134	Tuning the refractive index in 3D direct laser writing lithography: towards GRIN microoptics. <i>Laser and Photonics Reviews</i> , 2015 , 9, 706-712	8.3	88
133	Optically Clear and Resilient Free-Form μ -Optics 3D-Printed via Ultrafast Laser Lithography. <i>Materials</i> , 2017 , 10,	3.5	82
132	Mesoscale laser 3D printing. <i>Optics Express</i> , 2019 , 27, 15205-15221	3.3	70
131	Nanoscale Precision of 3D Polymerization via Polarization Control. <i>Advanced Optical Materials</i> , 2016 , 4, 1209-1214	8.1	66
130	Nano-groove and 3D fabrication by controlled avalanche using femtosecond laser pulses. <i>Optical Materials Express</i> , 2013 , 3, 1674	2.6	62
129	Micro-structured polymer scaffolds fabricated by direct laser writing for tissue engineering. <i>Journal of Biomedical Optics</i> , 2012 , 17, 081405-1	3.5	61
128	Additive-manufacturing of 3D glass-ceramics down to nanoscale resolution. <i>Nanoscale Horizons</i> , 2019 , 4, 647-651	10.8	60
127	Monolithic generators of pseudo-nondiffracting optical vortex beams at the microscale. <i>Applied Physics Letters</i> , 2013 , 103, 181122	3.4	59

126	A femtosecond laser-induced two-photon photopolymerization technique for structuring microlenses. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 035204	1.7	57
125	Fabrication of micro-tube arrays in photopolymer SZ2080 by using three different methods of a direct laser polymerization technique. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065022 ²		50
124	3D artificial polymeric scaffolds for stem cell growth fabricated by femtosecond laser. <i>Lithuanian Journal of Physics</i> , 2010 , 50, 75-82	1.1	50
123	Three-dimensional laser micro-sculpturing of silicone: towards bio-compatible scaffolds. <i>Optics Express</i> , 2013 , 21, 17028-41	3.3	49
122	Black silicon: substrate for laser 3D micro/nano-polymerization. <i>Optics Express</i> , 2013 , 21, 6901-9	3.3	48
121	Flat lensing in the visible frequency range by woodpile photonic crystals. <i>Optics Letters</i> , 2013 , 38, 2376-83		46
120	Photoinitiator Free Resins Composed of Plant-Derived Monomers for the Optical μ -3D Printing of Thermosets. <i>Polymers</i> , 2019 , 11,	4.5	46
119	Optical 3D printing: bridging the gaps in the mesoscale. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 053001	1.7	45
118	Plasmon assisted 3D microstructuring of gold nanoparticle-doped polymers. <i>Nanotechnology</i> , 2016 , 27, 154001	3.4	44
117	Microactuation and sensing using reversible deformations of laser-written polymeric structures. <i>Nanotechnology</i> , 2017 , 28, 124001	3.4	40
116	Laser 3D micro/nanofabrication of polymers for tissue engineering applications. <i>Optics and Laser Technology</i> , 2013 , 45, 518-524	4.2	40
115	Closely packed hexagonal conical microlens array fabricated by direct laser photopolymerization. <i>Applied Optics</i> , 2012 , 51, 4995-5003	1.7	40
114	3D microoptical elements formed in a photostructurable germanium silicate by direct laser writing. <i>Optics and Lasers in Engineering</i> , 2012 , 50, 1785-1788	4.6	37
113	Organic dye doped microstructures for optically active functional devices fabricated via two-photon polymerization technique. <i>Lithuanian Journal of Physics</i> , 2010 , 50, 55-61	1.1	36
112	Characterization of photopolymers used in laser 3D micro/nanolithography by means of laser-induced damage threshold (LIDT). <i>Optical Materials Express</i> , 2014 , 4, 1601	2.6	35
111	In vitro and in vivo biocompatibility study on laser 3D microstructurable polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 751-759	2.6	34
110	Self-polymerization of nano-fibres and nano-membranes induced by two-photon absorption. <i>Lithuanian Journal of Physics</i> , 2010 , 50, 135-140	1.1	32
109	Laser fabrication of various polymer microoptical components. <i>EPJ Applied Physics</i> , 2012 , 58, 20501	1.1	30

108	Direct laser writing of microstructures on optically opaque and reflective surfaces. <i>Optics and Lasers in Engineering</i> , 2014 , 53, 90-97	4.6	29
107	Polymerization mechanisms initiated by spatio-temporally confined light. <i>Nanophotonics</i> , 2021 , 10, 121161342	3.42	29
106	Effect of the photoinitiator presence and exposure conditions on laser-induced damage threshold of ORMOSIL (SZ2080). <i>Optical Materials</i> , 2015 , 39, 224-231	3.3	28
105	Formation of collimated beams behind the woodpile photonic crystal. <i>Physical Review A</i> , 2011 , 84,	2.6	28
104	Femtosecond visible light induced two-photon photopolymerization for 3D micro/nanostructuring in photoresists and photopolymers. <i>Lithuanian Journal of Physics</i> , 2010 , 50, 201-207	1.1	28
103	Hybrid subtractive-additive-welding microfabrication for lab-on-chip applications via single amplified femtosecond laser source. <i>Optical Engineering</i> , 2017 , 56, 1	1.1	27
102	A Bio-Based Resin for a Multi-Scale Optical 3D Printing. <i>Scientific Reports</i> , 2020 , 10, 9758	4.9	26
101	Combination of additive and subtractive laser 3D microprocessing in hybrid glass/polymer microsystems for chemical sensing applications. <i>Optics Express</i> , 2017 , 25, 26280-26288	3.3	26
100	Assessment of human gingival fibroblast interaction with dental implant abutment materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 169	4.5	25
99	Fabrication of periodic micro-structures by holographic lithography. <i>Lithuanian Journal of Physics</i> , 2013 , 53, 227-237	1.1	25
98	Spatial filtering by chirped photonic crystals. <i>Physical Review A</i> , 2013 , 87,	2.6	24
97	Direct laser writing of 3D polymer micro/nanostructures on metallic surfaces. <i>Applied Surface Science</i> , 2013 , 270, 382-387	6.7	23
96	Synthesis, Characterization and 3D Micro-Structuring via 2-Photon Polymerization of Poly(glycerol sebacate)-Methacrylate An Elastomeric Degradable Polymer. <i>Frontiers in Physics</i> , 2018 , 6,	3.9	22
95	Augmentation of direct laser writing fabrication throughput for three-dimensional structures by varying focusing conditions. <i>Optical Engineering</i> , 2014 , 53, 125102	1.1	21
94	Evaluation of enamel micro-cracks characteristics after removal of metal brackets in adult patients. <i>European Journal of Orthodontics</i> , 2013 , 35, 317-22	3.3	21
93	Photosensitive naturally derived resins toward optical 3-D printing. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	21
92	Two-photon polymerization for fabrication of three-dimensional micro- and nanostructures over a large area 2009 ,		20
91	Direct Laser Fabrication of Composite Material 3D Microstructured Scaffolds. <i>Journal of Laser Micro Nanoengineering</i> , 2014 , 9, 25-30	1	20

90	Hybrid curved nano-structured micro-optical elements. <i>Optics Express</i> , 2016 , 24, 16988-98	3.3	18
89	Direct laser writing of microoptical structures using a Ge-containing hybrid material. <i>Metamaterials</i> , 2011 , 5, 135-140		18
88	Assessment of the morphology and dimensional accuracy of 3D printed PLA and PLA/HAP scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 104, 103616	4.1	18
87	3D printed polarizing grids for IR-THz synchrotron radiation. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 035101	1.7	17
86	Custom on demand 3D printing of functional microstructures. <i>Lithuanian Journal of Physics</i> , 2015 , 55,	1.1	16
85	Improvement of the Fabrication Accuracy of Fiber Tip Microoptical Components via Mode Field Expansion. <i>Journal of Laser Micro Nanoengineering</i> , 2014 , 9, 68-72	1	15
84	Fabrication of a composite of nanocrystalline carbonated hydroxyapatite (cHAP) with polylactic acid (PLA) and its surface topographical structuring with direct laser writing (DLW). <i>RSC Advances</i> , 2016 , 6, 72733-72743	3.7	14
83	Spatial filtering by axisymmetric photonic microstructures. <i>Optics Letters</i> , 2014 , 39, 929-32	3	14
82	Diffraction grating fabrication in lithium niobate and KDP crystals with femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 769-773	2.6	14
81	Wrinkled axicons: shaping light from cusps. <i>Optics Express</i> , 2016 , 24, 24075-24082	3.3	13
80	Vanillin Acrylate-Based Resins for Optical 3D Printing. <i>Polymers</i> , 2020 , 12,	4.5	12
79	Enamel microcracks in the form of tooth damage during orthodontic debonding: a systematic review and meta-analysis of in vitro studies. <i>European Journal of Orthodontics</i> , 2018 , 40, 636-648	3.3	12
78	Beam focalization in reflection from flat dielectric subwavelength gratings. <i>Optics Letters</i> , 2014 , 39, 6086-9		12
77	Fabrication of Scaffolds and Micro-Lenses Array in a Negative Photopolymer SZ2080 by Multi-Photon Polymerization and Four-Femtosecond-Beam Interference. <i>Physics Procedia</i> , 2011 , 12, 82-88		12
76	Optical damage thresholds of microstructures made by laser three-dimensional nanolithography. <i>Optics Letters</i> , 2020 , 45, 13	3	12
75	Vegetable Oil-Based Thiol-Ene/Thiol-Epoxy Resins for Laser Direct Writing 3D Micro-/Nano-Lithography. <i>Polymers</i> , 2021 , 13,	4.5	12
74	The prognostic value of visually assessing enamel microcracks: Do debonding and adhesive removal contribute to their increase?. <i>Angle Orthodontist</i> , 2016 , 86, 437-47	2.6	12
73	Photoresins based on acrylated epoxidized soybean oil and benzenedithiols for optical 3D printing. <i>Rapid Prototyping Journal</i> , 2019 , 25, 378-387	3.8	12

72	Nanophotonic lithography: a versatile tool for manufacturing functional three-dimensional micro-/nano-objects. <i>Lithuanian Journal of Physics</i> , 2012 , 52, 312-326	1.1	11
71	Customization of direct laser lithography-based 3D scaffolds for optimized in vivo outcome. <i>Applied Surface Science</i> , 2019 , 487, 692-702	6.7	10
70	Enamel cracks evaluation - A method to predict tooth surface damage during the debonding. <i>Dental Materials Journal</i> , 2015 , 34, 828-34	2.5	10
69	Photocross-linked polymers based on plant-derived monomers for potential application in optical 3D printing. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48708	2.9	10
68	Does orthodontic debonding lead to tooth sensitivity? Comparison of teeth with and without visible enamel microcracks. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2017 , 151, 284-291	2.1	9
67	Single-step direct laser fabrication of complex shaped microoptical components 2012 ,		9
66	Holographic lithography for biomedical applications 2012 ,		9
65	Laser additive manufacturing of Si/ZrO ₂ tunable crystalline phase 3D nanostructures. <i>Opto-Electronic Advances</i> , 2022 , 210077-210077	6.5	9
64	Enamel microcracks in terms of orthodontic treatment: A novel method for their detection and evaluation. <i>Dental Materials Journal</i> , 2017 , 36, 438-446	2.5	8
63	Tilted black-Si: ~0.45 form-birefringence from sub-wavelength needles. <i>Optics Express</i> , 2020 , 28, 16012-16026	1.5	8
62	Characterization of tissue engineered cartilage products: Recent developments in advanced therapy. <i>Pharmacological Research</i> , 2016 , 113, 823-832	10.2	7
61	Birefringent optical retarders from laser 3D-printed dielectric metasurfaces. <i>Applied Physics Letters</i> , 2021 , 118, 151104	3.4	7
60	Direct Mechanical Detection and Measurement of Wave-Matter Orbital Angular Momentum Transfer by Nondissipative Vortex Mode Conversion. <i>Physical Review Letters</i> , 2019 , 123, 244301	7.4	7
59	Laser 3D Printing of Inorganic Free-Form Micro-Optics. <i>Photonics</i> , 2021 , 8, 577	2.2	7
58	Femtosecond Pulse Light Filament-Assisted Microfabrication of Biodegradable Polylactic Acid (PLA) Material. <i>Journal of Laser Micro Nanoengineering</i> , 2015 , 10, 222-228	1	6
57	Thermal and optical properties of sol-gel and SU-8 resists 2012 ,		5
56	Femtosecond laser-induced two-photon photopolymerization for structuring of micro-optical and photonic devices 2009 ,		5
55	Employment of fluorescence for autofocusing in direct laser writing micro-/nano-lithography 2014 ,		4

54	Direct Laser Fabrication of Polymeric Implants for Cardiovascular Surgery. <i>Medziagotyra</i> , 2012 , 18,	0.4	4
53	Fabrication of Periodic Micro-Structures by Multi-Photon Polymerization Using the Femtosecond Laser and Four-Beam Interference. <i>Medziagotyra</i> , 2011 , 17,	0.4	4
52	Applications of nonlinear laser nano/microlithography: fabrication from nanophotonic to biomedical components 2011 ,		4
51	Large Scale Laser Two-Photon Polymerization Structuring for Fabrication of Artificial Polymeric Scaffolds for Regenerative Medicine 2010 ,		4
50	Mesoscale Laser 3D Printing		4
49	Processes of Direct Laser Writing 3D Nano-Lithography		4
48	Microfabrication of 3D metallic interconnects via direct laser writing and chemical metallization. <i>Lithuanian Journal of Physics</i> , 2014 , 54,	1.1	4
47	Alterations in enteric calcitonin gene-related peptide in patients with colonic diverticular disease: CGRP in diverticular disease. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019 , 216, 63-71	2.4	4
46	Biocompatibility Evaluation and Enhancement of Elastomeric Coatings Made Using Table-Top Optical 3D Printer. <i>Coatings</i> , 2020 , 10, 254	2.9	4
45	Bioresists from renewable resources as sustainable photoresins for 3D laser microlithography: material synthesis, cross-linking rate and characterization of the structures 2017 ,		3
44	Laser nanolithography and pyrolysis of SZ2080 hybrid for slowing light in 3D photonic crystals 2017 ,		3
43	Tailoring bulk mechanical properties of 3D printed objects of polylactic acid varying internal micro-architecture 2015 ,		3
42	Metrology and process control 2020 , 197-228		3
41	Femtosecond pulsed light polarization induced effects in direct laser writing 3D nanolithography 2016 ,		3
40	Multiscale 3D manufacturing: combining thermal extrusion printing with additive and subtractive direct laser writing 2014 ,		3
39	Three-dimensional nanostructuring of polymer materials by controlled avalanche using femtosecond laser pulses 2014 ,		3
38	Direct laser writing of 3D micro/nanostructures on opaque surfaces 2012 ,		3
37	Lithographic microfabrication of biocompatible polymers for tissue engineering and lab-on-a-chip applications 2012 ,		3

36	Laser two-photon polymerization micro- and nanostructuring over a large area on various substrates 2010 ,		3
35	Femtosecond laser fabrication of hybrid micro-optical elements and their integration on the fiber tip 2010 ,		3
34	Volume Bragg Grating Formation in Fused Silica with High Repetition Rate Femtosecond Yb:KGW Laser Pulses. <i>Journal of Laser Micro Nanoengineering</i> , 2010 , 5, 218-222	1	3
33	Plasmonically enhanced 3D laser lithography for high-throughput nanoprecision fabrication 2017 ,		2
32	Osteochondral Repair and Electromechanical Evaluation of Custom 3D Scaffold Microstructured by Direct Laser Writing Lithography. <i>Cartilage</i> , 2019 , 1947603519847745	3	2
31	Local expression of AP/AngIV/IRAP and effect of AngIV on glucose-induced epithelial transport in human jejunal mucosa. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2015 , 16, 1101-8	3	2
30	Mesoscale 3D manufacturing: varying focusing conditions for efficient direct laser writing of polymers 2014 ,		2
29	Fabrication, replication, and characterization of microlenses for optofluidic applications 2013 ,		2
28	Laser-Micro/Nanofabricated 3D Polymers for Tissue Engineering Applications. <i>Latvian Journal of Physics and Technical Sciences</i> , 2011 , 48, 32-43	0.5	2
27	Fabrication of 3D glass-ceramic micro- /nano-structures by direct laser writing lithography and pyrolysis 2018 ,		2
26	Fabrication of flexible microporous 3D scaffolds via stereolithography and optimization of their biocompatibility 2018 ,		2
25	Femtosecond laser induced damage threshold (LIDT) of 3D nanolithography made micro- and nano-optical elements 2019 ,		2
24	Upconverting nanocrystals as luminescent temperature probes for local-heating imaging during direct laser writing 3D nanolithography 2018 ,		2
23	3D opto-structuring of ceramics at nanoscale 2018 ,		2
22	3D microoptics via ultrafast laser writing: Miniaturization, integration, and multifunctionalities 2020 , 445-474		2
21	Rapid Laser Optical Printing in 3D at a Nanoscale 2016 , 1-23		2
20	Fabrication of 3D micro-structured scaffolds by direct laser writing in pre-polymers for in vitro and in vivo studies 2017 ,		1
19	Optically-Thin Broadband Graphene-Membrane Photodetector. <i>Nanomaterials</i> , 2020 , 10,	5.4	1

18	Angiotensin IV induced contractions in human jejunal wall musculature in vitro. <i>Peptides</i> , 2014 , 59, 63-9	3.8	1
17	Optical and thermal characterization on micro-optical elements made by femtosecond laser writing 2013 ,		1
16	Permanent volume Bragg grating fabrication in pure lithium niobate crystal using direct laser writing technique 2011 ,		1
15	Direct laser writing of optical field concentrators based on chirped three-dimensional photonic crystals 2019 ,		1
14	Manufacturing of diffractive elements in fused silica using high repetition rate femtosecond Yb:KGW laser pulses. <i>Lithuanian Journal of Physics</i> , 2010 , 50, 129-134	1.1	1
13	Polarization effects in 3D femtosecond direct laser writing nanolithography 2018 ,		1
12	Three-dimensional non-destructive visualization of teeth enamel microcracks using X-ray micro-computed tomography. <i>Scientific Reports</i> , 2021 , 11, 14810	4.9	1
11	3D micro-optical elements for generation of tightly focused vortex beams. <i>MATEC Web of Conferences</i> , 2015 , 32, 03002	0.3	0
10	Processes of Laser Direct Writing 3D Nanolithography 2020 , 1-31		0
9	Optical damage thresholds of microstructures made by laser three-dimensional nanolithography: publisher's note. <i>Optics Letters</i> , 2020 , 45, 980	3	0
8	3D Micro-Optics Via Ultrafast Laser Writing: Miniaturization, Integration, and Multifunctionalities 2016 , 268-292		
7	A Decade of Advances in Femtosecond Laser Fabrication of Polymers: Mechanisms and Applications. <i>Springer Series in Materials Science</i> , 2014 , 271-291	0.9	
6	3D Subtractive Printing with Ultrashort Laser Pulses 2021 , 1227-1248		
5	3D Subtractive/Additive Printing with Ultrashort Laser Pulses: A Matured Technology 2021 , 1431-1452		
4	Processes of Laser Direct Writing 3D Nanolithography 2021 , 1401-1430		
3	3D Subtractive/Additive Printing with Ultrashort Laser Pulses: A Matured Technology 2021 , 1-22		
2	3D Subtractive Printing with Ultrashort Laser Pulses 2021 , 1-23		
1	In vivo examination of enamel microcracks after orthodontic debonding: Is there a need for detailed analysis?. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021 , 159, e103-e111	2.1	

