

# Yang Liao

## List of Publications by Year in descending order

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52  
papers

1,521  
citations

394421

19  
h-index

302126

39  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1395  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Auto-Focus Method of Microscope for the Surface Structure of Transparent Materials under Transmission Illumination. <i>Sensors</i> , 2021, 21, 2487.	3.8	2
2	Effects of femtosecond laser texture on the tribological properties of 20CrNiMo/beryllium bronze tribo-pairs of rock bit sliding bearings under non-Newtonian lubrication. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 1293-1305.	1.8	4
3	Metal surface structuring with spatiotemporally focused femtosecond laser pulses. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014010.	2.2	7
4	Suppression of bend loss in writing of three-dimensional optical waveguides with femtosecond laser pulses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	11
5	3. Three-dimensional integration of hybrid functionalities in transparent dielectrics by femtosecond laser direct writing. , 2018, , 111-248.		1
6	Fabrication of an Optical Waveguide-Mode-Field Compressor in Glass Using a Femtosecond Laser. <i>Materials</i> , 2018, 11, 1926.	2.9	8
7	Direct laser writing of 3D microfluidic structures in glass for lab-on-a-chip applications. , 2018, , .		0
8	Fabrication of polarization-independent waveguides deeply buried in lithium niobate crystal using aberration-corrected femtosecond laser direct writing. <i>Scientific Reports</i> , 2017, 7, 41211.	3.3	11
9	On-chip electro-optic tuning of a lithium niobate microresonator with integrated in-plane microelectrodes. <i>Optics Express</i> , 2017, 25, 124.	3.4	44
10	Fabrication of polarization-independent single-mode waveguides in lithium niobate crystal with femtosecond laser pulses. <i>Optical Materials Express</i> , 2016, 6, 2554.	3.0	21
11	High-throughput in-volume processing in glass with isotropic spatial resolutions in three dimensions. <i>Optical Materials Express</i> , 2016, 6, 3787.	3.0	14
12	Transverse writing of three-dimensional tubular optical waveguides in glass with a slit-shaped femtosecond laser beam. <i>Scientific Reports</i> , 2016, 6, 28790.	3.3	11
13	Formation of in-volume nanogratings in glass induced by spatiotemporally focused femtosecond laser pulses. <i>Advanced Optical Technologies</i> , 2016, 5, 81-85.	1.7	1
14	Deterministic laser nanomachining in glass. , 2016, , .		0
15	Time-resolved shadowgraphs of transient plasma induced by spatiotemporally focused femtosecond laser pulses in fused silica glass. <i>Optics Letters</i> , 2015, 40, 5726.	3.3	16
16	On-Chip Tuning of the Resonant Wavelength in a High-Q Microresonator Integrated with a Microheater. <i>International Journal of Optomechatronics</i> , 2015, 9, 187-194.	6.6	10
17	Formation of nanogratings in a porous glass immersed in water by femtosecond laser irradiation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
18	High-fidelity visualization of formation of volume nanogratings in porous glass by femtosecond laser irradiation. <i>Optica</i> , 2015, 2, 329.	9.3	77

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19	Formation of in-volume nanogratings with sub-100-nm periods in glass by femtosecond laser irradiation. <i>Optics Letters</i> , 2015, 40, 3623.	3.3	37
20	Femtosecond Laser 3D Fabrication in Porous Glass for Micro- and Nanofluidic Applications. <i>Micromachines</i> , 2014, 5, 1106-1134.	2.9	14
21	Femtosecond Laser Fabrication of Monolithically Integrated Microfluidic Sensors in Glass. <i>Sensors</i> , 2014, 14, 19402-19440.	3.8	70
22	Femtosecond laser 3D nanofabrication in glass: enabling direct write of integrated micro/nanofluidic chips. , 2014, , .		4
23	Fabrication of an integrated high-quality-factor (high-Q) optofluidic sensor by femtosecond laser micromachining. <i>Optics Express</i> , 2014, 22, 14792.	3.4	29
24	Threshold effect in femtosecond laser induced nanograting formation in glass: influence of the pulse duration. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 223-230.	2.3	11
25	Laser-induced damage in porous glass: a pathway to 3D fabrication of micro-/nanofluidics. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
26	Femtosecond laser nanostructuring in porous glass with sub-50Ånm feature sizes. <i>Optics Letters</i> , 2013, 38, 187.	3.3	149
27	Direct laser writing of sub-50 nm nanofluidic channels buried in glass for three-dimensional micro-nanofluidic integration. <i>Lab on A Chip</i> , 2013, 13, 1626.	6.0	113
28	Formation of nanogratings in a transparent material with tunable ionization property by femtosecond laser irradiation. <i>Optics Express</i> , 2013, 21, 15259.	3.4	18
29	Laser alchemy: direct writing of multifunctional components in a glass chip with femtosecond laser pulses. , 2013, , .		1
30	Fabrication of a liquid crystal light modulator by use of femtosecond-laser-induced nanoripples. <i>Optical Materials Express</i> , 2013, 3, 1698.	3.0	8
31	Three-dimensional staggered herringbone mixer fabricated by femtosecond laser direct writing. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 025601.	2.2	17
32	Femtosecond laser direct writing of three-dimensional micro/nanofluidics in porous glass. <i>MATEC Web of Conferences</i> , 2013, 8, 05002.	0.2	0
33	Fabrication of microfluidic systems with arbitrary 3D geometries inside fused silica using femtosecond laser direct writing. , 2012, , .		0
34	Fabrication of three-dimensional microfluidic channels inside glass using nanosecond laser direct writing. <i>Optics Express</i> , 2012, 20, 4291.	3.4	19
35	Rapid prototyping of three-dimensional microfluidic mixers in glass by femtosecond laser direct writing. <i>Lab on A Chip</i> , 2012, 12, 746.	6.0	197
36	Tuning etch selectivity of fused silica irradiated by femtosecond laser pulses by controlling polarization of the writing pulses. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	27

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37	Fabrication of large-volume microfluidic chamber embedded in glass using three-dimensional femtosecond laser micromachining. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 111-117.	2.2	26
38	Fabrication of a micro-optical lens using femtosecond laser 3D micromachining for two-photon imaging of bio-tissues. <i>Optics Communications</i> , 2011, 284, 2988-2991.	2.1	16
39	Fabrication of Raman biochip prototype by femtosecond laser micromachining. , 2010, , .		0
40	Alignment of liquid crystal molecules in a micro-cell fabricated by femtosecond laser. <i>Chemical Physics Letters</i> , 2010, 498, 188-191.	2.6	5
41	Surface-Enhanced Raman Scattering Substrate Fabricated by Femtosecond Laser Induced Co-deposition of Silver Nanoparticles and Fluorescent Molecules. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 022703.	1.5	6
42	Direct fabrication of homogeneous microfluidic channels embedded in fused silica using a femtosecond laser. <i>Optics Letters</i> , 2010, 35, 282.	3.3	75
43	Three-dimensional microfluidic channel with arbitrary length and configuration fabricated inside glass by femtosecond laser direct writing. <i>Optics Letters</i> , 2010, 35, 3225.	3.3	98
44	Rapid fabrication of optical volume gratings in Foturan glass by femtosecond laser micromachining. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 853-857.	2.3	22
45	Fabrication of an integrated Raman sensor by selective surface metallization using a femtosecond laser oscillator. <i>Optics Communications</i> , 2009, 282, 1370-1373.	2.1	12
46	Fabrication of microelectrodes deeply embedded in LiNbO <sub>3</sub> using a femtosecond laser. <i>Applied Surface Science</i> , 2008, 254, 7018-7021.	6.1	29
47	Mechanism study of femtosecond laser induced selective metallization (FLISM) on glass surfaces. <i>Optics Communications</i> , 2008, 281, 3505-3509.	2.1	9
48	Electro-optic integration of embedded electrodes and waveguides in LiNbO <sub>3</sub> using a femtosecond laser. <i>Optics Letters</i> , 2008, 33, 2281.	3.3	88
49	Selective deposition of conductive copper films on glass surfaces using femtosecond laser surface modification and electroless plating. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
50	Selective metallization on insulator surfaces with femtosecond laser pulses. <i>Optics Express</i> , 2007, 15, 12743.	3.4	67
51	Preparation and Tribological Studies of C <sub>60</sub> Thin Film Chemisorbed on a Functional Polymer Surface. <i>Langmuir</i> , 2004, 20, 3601-3605.	3.5	37
52	Micro- and Macro-Tribological Study on a Self-Assembled Dual-Layer Film. <i>Langmuir</i> , 2003, 19, 2763-2767.	3.5	75