

Liang Yang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

972
citations

567281

15
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

1098
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional chiral microstructures fabricated by structured optical vortices in isotropic material. <i>Light: Science and Applications</i> , 2017, 6, e17011-e17011.	16.6	201
2	Conical Hollow Microhelices with Superior Swimming Capabilities for Targeted Cargo Delivery. <i>Advanced Materials</i> , 2019, 31, e1808226.	21.0	89
3	Switchable Underwater Bubble Wettability on Laser-Induced Titanium Multiscale Micro-/Nanostructures by Vertically Crossed Scanning. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16867-16873.	8.0	65
4	Femtosecond Mathieu Beams for Rapid Controllable Fabrication of Complex Microcages and Application in Trapping Microobjects. <i>ACS Nano</i> , 2019, 13, 4667-4676.	14.6	63
5	Sensitive Photoresists for Rapid Multiphoton 3D Laser Micro- and Nanoprinting. <i>Advanced Optical Materials</i> , 2020, 8, 2000895.	7.3	56
6	Targeted Single-Cell Therapeutics with Magnetic Tubular Micromotor by One-Step Exposure of Structured Femtosecond Optical Vortices. <i>Advanced Functional Materials</i> , 2019, 29, 1905745.	14.9	54
7	Two-photon polymerization of microstructures by a non-diffraction multifoci pattern generated from a superposed Bessel beam. <i>Optics Letters</i> , 2017, 42, 743.	3.3	49
8	Predicting airborne coronavirus inactivation by far-UVC in populated rooms using a high-fidelity coupled radiation-CFD model. <i>Scientific Reports</i> , 2020, 10, 19659.	3.3	49
9	Two-photon polymerization of cylinder microstructures by femtosecond Bessel beams. <i>Applied Physics Letters</i> , 2014, 105, 041110.	3.3	44
10	On the Schwarzschild Effect in 3D Two-Photon Laser Lithography. <i>Advanced Optical Materials</i> , 2019, 7, 1901040.	7.3	43
11	Multi-material multi-photon 3D laser micro- and nanoprinting. <i>Light Advanced Manufacturing</i> , 2021, 2, 1.	5.1	41
12	High efficiency fabrication of complex microtube arrays by scanning focused femtosecond laser Bessel beam for trapping/releasing biological cells. <i>Optics Express</i> , 2017, 25, 8144.	3.4	33
13	A pseudo-compressible variational multiscale solver for turbulent incompressible flows. <i>Computational Mechanics</i> , 2016, 58, 1051-1069.	4.0	22
14	Nonwet Kingfisher Flying in the Rain: The Tumble of Droplets on Moving Oriented Anisotropic Superhydrophobic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35707-35715.	8.0	18
15	Microtubes with Complex Cross Section Fabricated by C-Shaped Bessel Laser Beam for Mimicking Stomata That Opens and Closes Rapidly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36369-36376.	8.0	17
16	One-fluid formulation for fluid-structure interaction with free surface. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 332, 102-135.	6.6	14
17	Tunable microfluidic device fabricated by femtosecond structured light for particle and cell manipulation. <i>Lab on A Chip</i> , 2019, 19, 3988-3996.	6.0	14
18	Inactivation Rates for Airborne Human Coronavirus by Low Doses of 222 nm Far-UVC Radiation. <i>Viruses</i> , 2022, 14, 684.	3.3	13

#	ARTICLE	IF	CITATIONS
19	Unified one-fluid formulation for incompressible flexible solids and multiphase flows: Application to hydrodynamics using the immersed structural potential method (ISPM). <i>International Journal for Numerical Methods in Fluids</i> , 2018, 86, 78-106.	1.6	12
20	Image-based simulations of absolute permeability with massively parallel pseudo-compressible stabilised finite element solver. <i>Computational Geosciences</i> , 2019, 23, 881-893.	2.4	12
21	Water entry of slender segmented projectile connected by spring. <i>Ocean Engineering</i> , 2020, 217, 108016.	4.3	11
22	Numerical Investigation of Water-Entry Problems Using IBM Method. <i>International Journal of Offshore and Polar Engineering</i> , 2017, 27, 152-159.	0.8	11
23	A novel approach to optimising well trajectory in heterogeneous reservoirs based on the fast-marching method. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103853.	4.4	9
24	In Situ Diagnostics and Role of Light-Induced Forces in Metal Laser Nanoprinting. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	7
25	Effects of eigen and actual frequencies of soft elastic surfaces on droplet rebound from stationary flexible feather vanes. <i>Soft Matter</i> , 2020, 16, 5020-5031.	2.7	6
26	Stabilizing self-assembled nano-objects using light-driven tetrazole chemistry. <i>Polymer Chemistry</i> , 2021, 12, 1627-1634.	3.9	5
27	Improved estimates of 222 nm far-UVC susceptibility for aerosolized human coronavirus via a validated high-fidelity coupled radiation-CFD code. <i>Scientific Reports</i> , 2021, 11, 19930.	3.3	5
28	Numerical modelling of new flap-gate type breakwater in regular and solitary waves using one-fluid formulation. <i>Ocean Engineering</i> , 2021, 240, 109967.	4.3	4
29	An explicit stabilised finite element method for Navier-Stokes-Brinkman equations. <i>Journal of Computational Physics</i> , 2022, 457, 111033.	3.8	4
30	A three-phase interpenetrating continua approach for wave and porous structure interaction. <i>Engineering Computations</i> , 2021, 38, 1157-1169.	1.4	1