

Lei Wang

List of Publications by Year in descending order

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58
papers

2,744
citations

236925

25
h-index

175258

52
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58
all docs

58
docs citations

58
times ranked

3794
citing authors

#	ARTICLE	IF	CITATIONS
1	Common Origin of Green Luminescence in Carbon Nanodots and Graphene Quantum Dots. ACS Nano, 2014, 8, 2541-2547.	14.6	701
2	Time-Resolved Fluorescence Study of Aggregation-Induced Emission Enhancement by Restriction of Intramolecular Charge Transfer State. Journal of Physical Chemistry B, 2010, 114, 128-134.	2.6	188
3	Plasmonic nano-printing: large-area nanoscale energy deposition for efficient surface texturing. Light: Science and Applications, 2017, 6, e17112-e17112.	16.6	177
4	Unraveling Bright Molecule-Like State and Dark Intrinsic State in Green-Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. Advanced Optical Materials, 2013, 1, 264-271.	7.3	144
5	Ultralow-loss geometric phase and polarization shaping by ultrafast laser writing in silica glass. Light: Science and Applications, 2020, 9, 15.	16.6	140
6	O-FIB: far-field-induced near-field breakdown for direct nanowriting in an atmospheric environment. Light: Science and Applications, 2020, 9, 41.	16.6	113
7	On-chip fabrication of silver microflower arrays as a catalytic microreactor for allowing in situ SERS monitoring. Chemical Communications, 2012, 48, 1680-1682.	4.1	105
8	Localized flexible integration of high-efficiency surface enhanced Raman scattering (SERS) monitors into microfluidic channels. Lab on A Chip, 2011, 11, 3347.	6.0	98
9	Optical Nanofabrication of Concave Microlens Arrays. Laser and Photonics Reviews, 2019, 13, 1800272.	8.7	65
10	Photothermal Surface Plasmon Resonance and Interband Transition-Enhanced Nanocomposite Hydrogel Actuators with Hand-Like Dynamic Manipulation. Advanced Optical Materials, 2017, 5, 1700442.	7.3	59
11	Fabrication of an anti-reflective microstructure on sapphire by femtosecond laser direct writing. Optics Letters, 2017, 42, 543.	3.3	57
12	Competition between subwavelength and deep-subwavelength structures ablated by ultrashort laser pulses. Optica, 2017, 4, 637.	9.3	53
13	Maskless laser tailoring of conical pillar arrays for antireflective biomimetic surfaces. Optics Letters, 2011, 36, 3305.	3.3	50
14	Surface-Plasmon-Mediated Programmable Optical Nanofabrication of an Oriented Silver Nanoplate. ACS Nano, 2014, 8, 6682-6692.	14.6	49
15	Angle-multiplexed optical printing of biomimetic hierarchical 3D textures. Laser and Photonics Reviews, 2017, 11, 1600187.	8.7	41
16	Matching Photocurrents of Subcells in Double-Junction Organic Solar Cells via Coupling Between Surface Plasmon Polaritons and Microcavity Modes. Advanced Optical Materials, 2013, 1, 809-813.	7.3	40
17	Sapphire-Based Fresnel Zone Plate Fabricated by Femtosecond Laser Direct Writing and Wet Etching. IEEE Photonics Technology Letters, 2016, 28, 1290-1293.	2.5	39
18	100-Layer Error-Free 5D Optical Data Storage by Ultrafast Laser Nanostructuring in Glass. Laser and Photonics Reviews, 2022, 16, .	8.7	39

#	ARTICLE	IF	CITATIONS
19	High speed ultrafast laser anisotropic nanostructuring by energy deposition control via near-field enhancement. <i>Optica</i> , 2021, 8, 1365.	9.3	38
20	Single-pulse writing of a concave microlens array. <i>Optics Letters</i> , 2018, 43, 831.	3.3	35
21	Monitoring Thermal Effect in Femtosecond Laser Interaction With Glass by Fiber Bragg Grating. <i>Journal of Lightwave Technology</i> , 2011, 29, 2126-2130.	4.6	34
22	Convex silica microlens arrays via femtosecond laser writing. <i>Optics Letters</i> , 2020, 45, 636.	3.3	31
23	As-grown graphene/copper nanoparticles hybrid nanostructures for enhanced intensity and stability of surface plasmon resonance. <i>Scientific Reports</i> , 2016, 6, 37190.	3.3	28
24	Programmable assembly of CdTe quantum dots into microstructures by femtosecond laser direct writing. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4699.	5.5	27
25	Rapid production of large-area deep sub-wavelength hybrid structures by femtosecond laser light-field tailoring. <i>Applied Physics Letters</i> , 2014, 104, 031904.	3.3	25
26	Controllable assembly of silver nanoparticles induced by femtosecond laser direct writing. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 024805.	6.1	25
27	Biomimetic construction of hierarchical structures via laser processing. <i>Optical Materials Express</i> , 2017, 7, 2208.	3.0	22
28	Ultrafast laser-inscribed nanogratings in sapphire for geometric phase elements. <i>Optics Letters</i> , 2021, 46, 536.	3.3	22
29	Laser patterning of conductive gold micronanostructures from nanodots. <i>Nanoscale</i> , 2012, 4, 6955.	5.6	21
30	Femtosecond Laser-Induced Vanadium Oxide Metamaterial Nanostructures and the Study of Optical Response by Experiments and Numerical Simulations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41905-41918.	8.0	21
31	Laser interference fabrication of large-area functional periodic structure surface. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 493-503.	4.3	20
32	Rapid Fabrication of Large-Area Periodic Structures by Multiple Exposure of Two-Beam Interference. <i>Journal of Lightwave Technology</i> , 2013, 31, 276-281.	4.6	19
33	Control of diameter and numerical aperture of microlens by a single ultra-short laser pulse. <i>Optics Letters</i> , 2019, 44, 5149.	3.3	19
34	Multilevel phase-type diffractive lens embedded in sapphire. <i>Optics Letters</i> , 2017, 42, 3832.	3.3	17
35	A robust lane detection method based on hyperbolic model. <i>Soft Computing</i> , 2019, 23, 9161-9174.	3.6	17
36	Nano-ablation of silica by plasmonic surface wave at low fluence. <i>Optics Letters</i> , 2017, 42, 4446.	3.3	15

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37	Fabrication of microelectrodes based on precursor doped with metal seeds by femtosecond laser direct writing. <i>Optics Letters</i> , 2014, 39, 434.	3.3	14
38	Silicon-Based Suspended Structure Fabricated by Femtosecond Laser Direct Writing and Wet Etching. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1605-1608.	2.5	14
39	Preparation and Magnetic Properties of Doped Ni-Fe/Fe ₃ O ₄ Nanocomposite. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1383-1387.	4.7	13
40	Laser-Inscribed Stress-Induced Birefringence of Sapphire. <i>Nanomaterials</i> , 2019, 9, 1414.	4.1	13
41	Investigating the dynamics of excitons in monolayer WSe ₂ before and after organic super acid treatment. <i>Nanoscale</i> , 2018, 10, 9346-9352.	5.6	12
42	High Curvature Concave-Convex Microlens. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2465-2468.	2.5	11
43	Anisotropic nanostructure generated by a spatial-temporal manipulated picosecond pulse for multidimensional optical data storage. <i>Optics Letters</i> , 2021, 46, 5485.	3.3	10
44	High-Efficiency Fabrication of Geometric Phase Elements by Femtosecond-Laser Direct Writing. <i>Nanomaterials</i> , 2020, 10, 1737.	4.1	9
45	Simultaneous Femtosecond Laser Doping and Surface Texturing for Implanting Applications. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500058.	3.7	8
46	Sapphire-Based Dammann Gratings for UV Beam Splitting. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	2.0	8
47	Silver nano islands enhanced Raman scattering on large area grating substrates fabricated by two beam laser interference. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 1006-1010.	2.6	7
48	Intense Femtosecond Laser-Mediated Electrical Discharge Enables Preparation of Amorphous Nickel Phosphide Nanoparticles. <i>Langmuir</i> , 2018, 34, 5712-5718.	3.5	6
49	Actuation From Directional Deformation Based on Composite Hydrogel for Moisture-Controllable Devices. <i>IEEE Sensors Journal</i> , 2018, 18, 8796-8802.	4.7	6
50	Formation of Deep-Subwavelength Structures on Organic Materials by Femtosecond Laser Ablation. <i>IEEE Journal of Quantum Electronics</i> , 2018, 54, 1-7.	1.9	5
51	Plasmonic nano-imprinting by photo-doping. <i>Optics Letters</i> , 2018, 43, 3786.	3.3	4
52	Electronic structure evolution and exciton energy shifting dynamics in WSe ₂ : from monolayer to bulk. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 354002.	2.8	4
53	Dynamically controlled optical nonreciprocity of a double-ladder system with spontaneously generated coherence in moving atomic optical lattice. <i>Chinese Physics B</i> , 2017, 26, 054207.	1.4	2
54	Tunable photonic band gaps and optical nonreciprocity by an RF-driving ladder-type system in moving optical lattice. <i>Optics Communications</i> , 2018, 410, 916-922.	2.1	2

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55	Periodic structures fabricated by nanosecond laser four-beam interference ablation. Chinese Science Bulletin, 2016, 61, 616-621.	0.7	1
56	Femtosecond laser self-assembly for silver vanadium oxide flower structures. Optics Letters, 2019, 44, 5354.	3.3	1
57	Optical FIB: Far-field fabrication with real-nanoscale spatial resolution in any solid materials. , 2021, , .		0
58	The double-edged sword of femtosecond laser-induced periodic surface structures for sub-diffraction and high-efficient nanotexturing. , 2019, , .		0