Lei Wang

List of Publications by Year
in descending order

58 papers	2,744 citations	236925 25 h-index	175258 52 g-index
58 all docs	58 docs citations	58 times ranked	3794 citing authors

#	Article	IF	Citations
1	100â€Layer Errorâ€Free 5D Optical Data Storage by Ultrafast Laser Nanostructuring in Glass. Laser and Photonics Reviews, 2022, 16, .	8.7	39
2	Optical FIB: Far-field fabrication with real-nanoscale spatial resolution in any solid materials. , 2021, , .		0
3	Electronic structure evolution and exciton energy shifting dynamics in WSe₂: from monolayer to bulk. Journal Physics D: Applied Physics, 2021, 54, 354002.	2.8	4
4	High speed ultrafast laser anisotropic nanostructuring by energy deposition control via near-field enhancement. Optica, 2021, 8, 1365.	9.3	38
5	Ultrafast laser-inscribed nanogratings in sapphire for geometric phase elements. Optics Letters, 2021, 46, 536.	3.3	22
6	Anisotropic nanostructure generated by a spatial-temporal manipulated picosecond pulse for multidimensional optical data storage. Optics Letters, 2021, 46, 5485.	3.3	10
7	Femtosecond Laser-Induced Vanadium Oxide Metamaterial Nanostructures and the Study of Optical Response by Experiments and Numerical Simulations. ACS Applied Materials & Interfaces, 2020, 12, 41905-41918.	8.0	21
8	High-Efficiency Fabrication of Geometric Phase Elements by Femtosecond-Laser Direct Writing. Nanomaterials, 2020, 10, 1737.	4.1	9
9	Ultralow-loss geometric phase and polarization shaping by ultrafast laser writing in silica glass. Light: Science and Applications, 2020, 9, 15.	16.6	140
10	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
11	Convex silica microlens arrays via femtosecond laser writing. Optics Letters, 2020, 45, 636.	3.3	31
12	Laser-Inscribed Stress-Induced Birefringence of Sapphire. Nanomaterials, 2019, 9, 1414.	4.1	13
13	Optical Nanofabrication of Concave Microlens Arrays. Laser and Photonics Reviews, 2019, 13, 1800272.	8.7	65
14	A robust lane detection method based on hyperbolic model. Soft Computing, 2019, 23, 9161-9174.	3.6	17
15	Control of diameter and numerical aperture of microlens by a single ultra-short laser pulse. Optics Letters, 2019, 44, 5149.	3.3	19
16	Femtosecond laser self-assembly for silver vanadium oxide flower structures. Optics Letters, 2019, 44, 5354.	3.3	1
17	The double-edged sword of femtosecond laser-induced periodic surface structures for sub-diffraction and high-efficient nanotexturing. , 2019, , .		0
18	Investigating the dynamics of excitons in monolayer WSe₂ before and after organic super acid treatment. Nanoscale, 2018, 10, 9346-9352.	5.6	12

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19	Tunable photonic band gaps and optical nonreciprocity by an RF-driving ladder-type system in moving optical lattice. Optics Communications, 2018, 410, 916-922.	2.1	2
20	Intense Femtosecond Laser-Mediated Electrical Discharge Enables Preparation of Amorphous Nickel Phosphide Nanoparticles. Langmuir, 2018, 34, 5712-5718.	3.5	6
21	Formation of Deep-Subwavelength Structures on Organic Materials by Femtosecond Laser Ablation. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	5
22	Actuation From Directional Deformation Based on Composite Hydrogel for Moisture-Controllable Devices. IEEE Sensors Journal, 2018, 18, 8796-8802.	4.7	6
23	Single-pulse writing of a concave microlens array. Optics Letters, 2018, 43, 831.	3.3	35
24	Laser interference fabrication of large-area functional periodic structure surface. Frontiers of Mechanical Engineering, 2018, 13, 493-503.	4.3	20
25	Plasmonic nano-imprinting by photo-doping. Optics Letters, 2018, 43, 3786.	3.3	4
26	Angleâ€multiplexed optical printing of biomimetic hierarchical 3D textures. Laser and Photonics Reviews, 2017, 11, 1600187.	8.7	41
27	Dynamically controlled optical nonreciprocity of a double-ladder system with spontaneously generated coherence in moving atomic optical lattice. Chinese Physics B, 2017, 26, 054207.	1.4	2
28	Photothermal Surface Plasmon Resonance and Interband Transitionâ€Enhanced Nanocomposite Hydrogel Actuators with Handâ€Like Dynamic Manipulation. Advanced Optical Materials, 2017, 5, 1700442.	7.3	59
29	Plasmonic nano-printing: large-area nanoscale energy deposition for efficient surface texturing. Light: Science and Applications, 2017, 6, e17112-e17112.	16.6	177
30	Multilevel phase-type diffractive lens embedded in sapphire. Optics Letters, 2017, 42, 3832.	3.3	17
31	Biomimetic construction of hierarchical structures via laser processing. Optical Materials Express, 2017, 7, 2208.	3.0	22
32	Competition between subwavelength and deep-subwavelength structures ablated by ultrashort laser pulses. Optica, 2017, 4, 637.	9.3	53
33	Nano-ablation of silica by plasmonic surface wave at low fluence. Optics Letters, 2017, 42, 4446.	3.3	15
34	Fabrication of an anti-reflective microstructure on sapphire by femtosecond laser direct writing. Optics Letters, 2017, 42, 543.	3.3	57
35	Silicon-Based Suspended Structure Fabricated by Femtosecond Laser Direct Writing and Wet Etching. IEEE Photonics Technology Letters, 2016, 28, 1605-1608.	2.5	14
36	As-grown graphene/copper nanoparticles hybrid nanostructures for enhanced intensity and stability of surface plasmon resonance. Scientific Reports, 2016, 6, 37190.	3.3	28

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37	Sapphire-Based Dammann Gratings for UV Beam Splitting. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	8
38	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
39	Periodic structures fabricated by nanosecond laser four-beam interference ablation. Chinese Science Bulletin, 2016, 61, 616-621.	0.7	1
40	Simultaneous Femtosecond Laser Doping and Surface Texturing for Implanting Applications. Advanced Materials Interfaces, 2015, 2, 1500058.	3.7	8
41	Controllable assembly of silver nanoparticles induced by femtosecond laser direct writing. Science and Technology of Advanced Materials, 2015, 16, 024805.	6.1	25
42	High Curvature Concaveâ€“Convex Microlens. IEEE Photonics Technology Letters, 2015, 27, 2465-2468.	2.5	11
43	Fabrication of microelectrodes based on precursor doped with metal seeds by femtosecond laser direct writing. Optics Letters, 2014, 39, 434.	3.3	14
44	Common Origin of Green Luminescence in Carbon Nanodots and Graphene Quantum Dots. ACS Nano, 2014, 8, 2541-2547.	14.6	701
45	Rapid production of large-area deep sub-wavelength hybrid structures by femtosecond laser light-field tailoring. Applied Physics Letters, 2014, 104, 031904.	3.3	25
46	Surface-Plasmon-Mediated Programmable Optical Nanofabrication of an Oriented Silver Nanoplate. ACS Nano, 2014, 8, 6682-6692.	14.6	49
47	Matching Photocurrents of Subâ€cells in Doubleâ€Junction Organic Solar Cells via Coupling Between Surface Plasmon Polaritons and Microcavity Modes. Advanced Optical Materials, 2013, 1, 809-813.	7.3	40
48	Rapid Fabrication of Large-Area Periodic Structures by Multiple Exposure of Two-Beam Interference. Journal of Lightwave Technology, 2013, 31, 276-281.	4.6	19
49	Silver nano islands enhanced Raman scattering on large area grating substrates fabricated by two beam laser interference. Chemical Research in Chinese Universities, 2013, 29, 1006-1010.	2.6	7
50	Programmable assembly of CdTe quantum dots into microstructures by femtosecond laser direct writing. Journal of Materials Chemistry C, 2013, 1, 4699.	5.5	27
51	Unraveling Bright Moleculeâ€Like State and Dark Intrinsic State in Greenâ€Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. Advanced Optical Materials, 2013, 1, 264-271.	7.3	144
52	Laser patterning of conductive gold micronanostructures from nanodots. Nanoscale, 2012, 4, 6955.	5.6	21
53	On-chip fabrication of silver microflower arrays as a catalytic microreactor for allowing in situSERS monitoring. Chemical Communications, 2012, 48, 1680-1682.	4.1	105
54	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

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55	Monitoring Thermal Effect in Femtosecond Laser Interaction With Glass by Fiber Bragg Grating. Journal of Lightwave Technology, 2011, 29, 2126-2130.	4.6	34
56	Maskless laser tailoring of conical pillar arrays for antireflective biomimetic surfaces. Optics Letters, 2011, 36, 3305.	3.3	50
57	Preparation and Magnetic Properties of Doped Ni-Fe/Fe₃O₄Nanocomposite. Materials and Manufacturing Processes, 2011, 26, 1383-1387.	4.7	13
58	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