Zengbo Wang

List of Publications by Year
in descending order

50 papers	2,477 citations	279798 23 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	1790 citing authors

#	Article	IF	Citations
1	Localized photonic nanojet based sensing platform for highly efficient signal amplification and quantitative biosensing. Sensors and Actuators B: Chemical, 2022, 357, 131401.	7.8	8
2	Photonic lenses with whispering gallery waves at Janus particles. , 2022, 1, 210008-210008.		9
3	Near-Field Light-Bending Photonic Switch: Physics of Switching Based on Three-Dimensional Poynting Vector Analysis. Photonics, 2022, 9, 154.	2.0	12
4	Ultrafast femtosecond laser micro-marking of single-crystal natural diamond by two-lens focusing system. Materials Today Communications, 2021, 26, 101800.	1.9	2
5	Super-Resolution Imaging by Dielectric Superlenses: TiO2 Metamaterial Superlens versus BaTiO3 Superlens. Photonics, 2021, 8, 222.	2.0	19
6	Wave theory of virtual image [Invited]. Optical Materials Express, 2021, 11, 3646.	3.0	5
7	ÐÐ¾Ð²Ð¾Ðµ Ñ€ÐµÑˆÐµÐ½Ð¸Ðµ Ð´Ð»Ñ•Ð±Ð¸Ð¾Ð»Ð¾Ð³Ð¸Ñ‡ÐµÑ•ÐºÐ¸Ñ… Ð¸ Ð¼ÐµÐ´Ð¸Ñ†Ð¸Ð½Ñ•ÐºÐ¸Ñ… Ð¸Ñ•Ñ•Ð»ÐµÐ´Ð¾Ð²Ð°Ð½Ð¸Ð¹		
8	Label-free non-invasive subwavelength-resolution imaging using yeast cells as biological lenses. Biomedical Optics Express, 2021, 12, 7113.	2.9	8
9	Super-Resolution Imaging with Patchy Microspheres. Photonics, 2021, 8, 513.	2.0	8
10	Synergetic Effect of Plasmonic Gold Nanorods and MgO for Perovskite Solar Cells. Nanomaterials, 2020, 10, 1830.	4.1	13
11	Superâ€Enhancement Focusing of Teflon Spheres. Annalen Der Physik, 2020, 532, 2000373.	2.4	16
12	Unibody microscope objective tipped with a microsphere: design, fabrication, and application in subwavelength imaging. Applied Optics, 2020, 59, 2641.	1.8	16
13	Superlensing plano-convex-microsphere (PCM) lens for direct laser nano-marking and beyond. Optics Letters, 2020, 45, 1168.	3.3	24
14	Shift-free fixed-line laser protection filter technology. , 2020, , .		2
15	Ð˜Ð½Ñ‚ÐµÐ³Ñ€Ð°Ñ†Ð¸Ñ•Ð¼ÐµÑ‚Ð¾Ð² ÑŽÑ•Ð°Ð½Ð¾Ñ‡Ð°ÑŽÑ‰Ð¸Ñ… Ð·Ð¾Ð½Ð´Ð¾Ð²Ñ‹Ñ… Ð¼Ð¾Ð¸		
16	High performance perovskite solar cells using Cu9S5 supraparticles incorporated hole transport layers. Nanotechnology, 2019, 30, 445401.	2.6	9
17	Enhancing photovoltaic performance of perovskite solar cells utilizing germanium nanoparticles. Solar Energy, 2019, 188, 839-848.	6.1	23
18	Experimental observation of a photonic hook. Applied Physics Letters, 2019, 114, .	3.3	80

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19	High order Fano resonances and giant magnetic fields in dielectric microspheres. Scientific Reports, 2019, 9, 20293.	3.3	40
20	Full three-dimensional Poynting vector flow analysis of great field-intensity enhancement in specifically sized spherical-particles. Scientific Reports, 2019, 9, 20224.	3.3	22
21	Super-Resolution Imaging and Microscopy by Dielectric Particle-Lenses. Biological and Medical Physics Series, 2019, , 371-406.	0.4	14
22	Intensityâ€Enhanced Apodization Effect on an Axially Illuminated Circularâ€Column Particleâ€Lens. Annalen Der Physik, 2018, 530, 1700384.	2.4	16
23	Enhancing photovoltaic performance of perovskite solar cells with silica nanosphere antireflection coatings. Solar Energy, 2018, 169, 128-135.	6.1	51
24	A Millimetre-Wave Cuboid Solid Immersion Lens with Intensity-Enhanced Amplitude Mask Apodization. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 546-552.	2.2	44
25	Photonic hook: a new curved light beam. Optics Letters, 2018, 43, 771.	3.3	98
26	A wide-angle shift-free metamaterial filter design for anti-laser striking application. Optics Communications, 2018, 429, 53-59.	2.1	8
27	Efficient perovskite solar cells by combination use of Au nanoparticles and insulating metal oxide. Nanoscale, 2017, 9, 2852-2864.	5.6	59
28	Production of photonic nanojets by using pupil-masked 3D dielectric cuboid. Journal Physics D: Applied Physics, 2017, 50, 175102.	2.8	31
29	Large-area formation of microsphere arrays using laser surface texturing technology. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	1
30	Plasmonic Effects of Metallic Nanoparticles on Enhancing Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 34821-34832.	8.0	100
31	Biomining for mother nature's superlenses. , 2017, , .		0
32	Refractive index less than two: photonic nanojets yesterday, today and tomorrow [Invited]. Optical Materials Express, 2017, 7, 1820.	3.0	293
33	Superlensing microscope objective lens. Applied Optics, 2017, 56, 3142.	2.1	38
34	Spider Silk: Mother Natureâ€™s Bio-Superlens. Nano Letters, 2016, 16, 5842-5845.	9.1	80
35	Three-dimensional all-dielectric metamaterial solid immersion lens for subwavelength imaging at visible frequencies. Science Advances, 2016, 2, e1600901.	10.3	122
36	Engineering near-field focusing of a microsphere lens with pupil masks. Optics Communications, 2016, 370, 140-144.	2.1	36

#	Article	IF	Citations
37	Photonic nanojet of cylindrical metalens assembled by hexagonally arranged nanofibers for breaking the diffraction limit. Optics Letters, 2016, 41, 1336.	3.3	46
38	Light absorption in perovskite solar cell: Fundamentals and plasmonic enhancement of infrared band absorption. Solar Energy, 2016, 124, 143-152.	6.1	94
39	Microsphere super-resolution imaging. SPR Nanoscience, 2016, , 193-210.	0.6	25
40	Synthesis and super-resolution imaging performance of a refractive-index-controllable microsphere superlens. Journal of Materials Chemistry C, 2015, 3, 10907-10915.	5.5	30
41	Surface plasmon resonance assisted rapid laser joining of glass. Applied Physics Letters, 2014, 105, .	3.3	4
42	Wave-Guiding Analysis of Annular Core Geometry Metal-Clad Semiconductor Nano-Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 15-22.	1.9	8
43	Facile synthesis of asymmetric Agâ€“organosilica hybrid nanoparticles with tunable morphologies and optical properties. Chemical Communications, 2014, 50, 5767.	4.1	16
44	Locomotion of microspheres for super-resolution imaging. Scientific Reports, 2013, 3, 3501.	3.3	101
45	Immersed transparent microsphere magnifying sub-diffraction-limited objects. Applied Optics, 2013, 52, 7265.	2.1	72
46	Overcoming the diffraction limit induced by microsphere optical nanoscopy. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	62
47	Multiphysics modelling and simulation of dry laser cleaning of micro-slots with particle contaminants. Journal Physics D: Applied Physics, 2012, 45, 135401.	2.8	6
48	Laser micro/nano patterning of hydrophobic surface by contact particle lens array. Applied Surface Science, 2011, 258, 774-779.	6.1	36
49	Optical virtual imaging at 50 nm lateral resolution with a white-light nanoscope. Nature Communications, 2011, 2, 218.	12.8	641
50	Parallel near-field optical micro/nanopatterning on curved surfaces by transported micro-particle lens arrays. Journal Physics D: Applied Physics, 2010, 43, 305302.	2.8	27