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	Optical virtual imaging at 50 nm lateral resolution with a white-light nanoscope. Nature Communications, 2011, 2, 218.	12.8	641
2	Refractive index less than two: photonic nanojets yesterday, today and tomorrow [Invited]. Optical Materials Express, 2017, 7, 1820.	3.0	293
3	Three-dimensional all-dielectric metamaterial solid immersion lens for subwavelength imaging at visible frequencies. Science Advances, 2016, 2, e1600901.	10.3	122
4	Locomotion of microspheres for super-resolution imaging. Scientific Reports, 2013, 3, 3501.	3.3	101
5	Plasmonic Effects of Metallic Nanoparticles on Enhancing Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 34821-34832.	8.0	100
6	Photonic hook: a new curved light beam. Optics Letters, 2018, 43, 771.	3.3	98
7	Light absorption in perovskite solar cell: Fundamentals and plasmonic enhancement of infrared band absorption. Solar Energy, 2016, 124, 143-152.	6.1	94
8	Spider Silk: Mother Natureâ€™s Bio-Superlens. Nano Letters, 2016, 16, 5842-5845.	9.1	80
9	Experimental observation of a photonic hook. Applied Physics Letters, 2019, 114, .	3.3	80
10	Immersed transparent microsphere magnifying sub-diffraction-limited objects. Applied Optics, 2013, 52, 7265.	2.1	72
11	Overcoming the diffraction limit induced by microsphere optical nanoscopy. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	62
12	Efficient perovskite solar cells by combination use of Au nanoparticles and insulating metal oxide. Nanoscale, 2017, 9, 2852-2864.	5.6	59
13	Enhancing photovoltaic performance of perovskite solar cells with silica nanosphere antireflection coatings. Solar Energy, 2018, 169, 128-135.	6.1	51
14	Photonic nanojet of cylindrical metalens assembled by hexagonally arranged nanofibers for breaking the diffraction limit. Optics Letters, 2016, 41, 1336.	3.3	46
15	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
16	High order Fano resonances and giant magnetic fields in dielectric microspheres. Scientific Reports, 2019, 9, 20293.	3.3	40
17	Superlensing microscope objective lens. Applied Optics, 2017, 56, 3142.	2.1	38
18	Laser micro/nano patterning of hydrophobic surface by contact particle lens array. Applied Surface Science, 2011, 258, 774-779.	6.1	36

#	Article	IF	Citations
19	Engineering near-field focusing of a microsphere lens with pupil masks. Optics Communications, 2016, 370, 140-144.	2.1	36
20	Production of photonic nanojets by using pupil-masked 3D dielectric cuboid. Journal Physics D: Applied Physics, 2017, 50, 175102.	2.8	31
21	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
22	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
23	Microsphere super-resolution imaging. SPR Nanoscience, 2016, , 193-210.	0.6	25
24	Superlensing plano-convex-microsphere (PCM) lens for direct laser nano-marking and beyond. Optics Letters, 2020, 45, 1168.	3.3	24
25	Enhancing photovoltaic performance of perovskite solar cells utilizing germanium nanoparticles. Solar Energy, 2019, 188, 839-848.	6.1	23
26	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
27	Super-Resolution Imaging by Dielectric Superlenses: TiO2 Metamaterial Superlens versus BaTiO3 Superlens. Photonics, 2021, 8, 222.	2.0	19
28	Facile synthesis of asymmetric Agâ€“organosilica hybrid nanoparticles with tunable morphologies and optical properties. Chemical Communications, 2014, 50, 5767.	4.1	16
29	Intensityâ€Enhanced Apodization Effect on an Axially Illuminated Circularâ€Column Particleâ€Lens. Annalen Der Physik, 2018, 530, 1700384.	2.4	16
30	Superâ€Enhancement Focusing of Teflon Spheres. Annalen Der Physik, 2020, 532, 2000373.	2.4	16
31	Unibody microscope objective tipped with a microsphere: design, fabrication, and application in subwavelength imaging. Applied Optics, 2020, 59, 2641.	1.8	16
32	Super-Resolution Imaging and Microscopy by Dielectric Particle-Lenses. Biological and Medical Physics Series, 2019, , 371-406.	0.4	14
33	Synergetic Effect of Plasmonic Gold Nanorods and MgO for Perovskite Solar Cells. Nanomaterials, 2020, 10, 1830.	4.1	13
34	Near-Field Light-Bending Photonic Switch: Physics of Switching Based on Three-Dimensional Poynting Vector Analysis. Photonics, 2022, 9, 154.	2.0	12
35	High performance perovskite solar cells using Cu9S5 supraparticles incorporated hole transport layers. Nanotechnology, 2019, 30, 445401.	2.6	9
36	Photonic lenses with whispering gallery waves at Janus particles. , 2022, 1, 210008-210008.		9

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37	Wave-Guiding Analysis of Annular Core Geometry Metal-Clad Semiconductor Nano-Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 15-22.	1.9	8
38	A wide-angle shift-free metamaterial filter design for anti-laser striking application. Optics Communications, 2018, 429, 53-59.	2.1	8
39	Label-free non-invasive subwavelength-resolution imaging using yeast cells as biological lenses. Biomedical Optics Express, 2021, 12, 7113.	2.9	8
40	Super-Resolution Imaging with Patchy Microspheres. Photonics, 2021, 8, 513.	2.0	8
41	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
42	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
43	Wave theory of virtual image [Invited]. Optical Materials Express, 2021, 11, 3646.	3.0	5
44	Surface plasmon resonance assisted rapid laser joining of glass. Applied Physics Letters, 2014, 105, .	3.3	4
45	Ultrafast femtosecond laser micro-marking of single-crystal natural diamond by two-lens focusing system. Materials Today Communications, 2021, 26, 101800.	1.9	2
46	Shift-free fixed-line laser protection filter technology. , 2020, , .		2
47	Large-area formation of microsphere arrays using laser surface texturing technology. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	1
48	ĐĐ¾Đ²Đ¾Đµ Ñ€ĐµÑˆĐµĐ½Đ¸Đµ ĐĐ»Ñ•Đ±Đ¸Đ¾Đ½Đ°Đ½Đ¾ÑĐºĐ¾Đ¿Đ¸Đ¸ Đ½Đ° Đ¾ÑĐ½Đ¾Đ²Đµ Ñ‚ĐµÑ…Đ½Đ¾Đ»Đ¾Đ³Đ¸	0.0	1
49	ĐˆĐ½Ñ‚ĐµĐ³Ñ€Đ°Ñ†Đ¸Ñ•Đ¼ĐµÑ‚Đ¾ĐĐ¾Đ² ÑĐºĐ°Đ½Đ¸Ñ€ÑƒÑŽÑ‰ĐµĐ¹ Đ·Đ¾Đ½ĐĐ¾Đ²Đ¾Đ¹ Đ¼Đ¸ĐºÑ€Đ¾ÑĐºĐ¾Đ¿Đ¸Đ¸	0.0	[illegible]
50	Biomining for mother nature's superlenses. , 2017, , .		0