

# Jian Zi

## List of Publications by Year in descending order

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74  
papers

3,828  
citations

186254

28  
h-index

123420

61  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coloration strategies in peacock feathers. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12576-12578.	7.1	478
2	Raman shifts in Si nanocrystals. Applied Physics Letters, 1996, 69, 200-202.	3.3	403
3	Generating optical vortex beams by momentum-space polarization vortices centred at bound states in the continuum. Nature Photonics, 2020, 14, 623-628.	31.4	244
4	Using Cuttlefish Ink as an Additive to Produce Non-iridescent Structural Colors of High Color Visibility. Advanced Materials, 2015, 27, 4719-4724.	21.0	215
5	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. Nature Photonics, 2018, 12, 430-436.	31.4	194
6	Enlargement of omnidirectional total reflection frequency range in one-dimensional photonic crystals by using photonic heterostructures. Applied Physics Letters, 2002, 80, 4291-4293.	3.3	192
7	Observation of Polarization Vortices in Momentum Space. Physical Review Letters, 2018, 120, 186103.	7.8	168
8	Circularly Polarized States Spawning from Bound States in the Continuum. Physical Review Letters, 2019, 123, 116104.	7.8	165
9	Large frequency range of negligible transmission in one-dimensional photonic quantum well structures. Applied Physics Letters, 1998, 73, 2084-2086.	3.3	136
10	Localized surface plasmon resonance of nanoporous gold. Applied Physics Letters, 2011, 98, .	3.3	135
11	Ferroelectric inverse opals with electrically tunable photonic band gap. Applied Physics Letters, 2003, 83, 4704-4706.	3.3	94
12	Negative refraction of acoustic waves in two-dimensional sonic crystals. Physical Review B, 2005, 72, .	3.2	91
13	A mechanically tunable plasmonic structure composed of a monolayer array of metal-capped colloidal spheres on an elastomeric substrate. Nano Research, 2010, 3, 807-812.	10.4	66
14	Tunable terahertz radiation from graphene induced by moving electrons. Physical Review B, 2014, 89, .	3.2	57
15	Routing valley exciton emission of a WS <sub>2</sub> monolayer via delocalized Bloch modes of in-plane inversion-symmetry-broken photonic crystal slabs. Light: Science and Applications, 2020, 9, 148.	16.6	54
16	Single-Fed Triple-Mode Wideband Circularly Polarized Microstrip Antennas Using Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2022, 70, 846-855.	5.1	50
17	Coexistence of a new type of bound state in the continuum and a lasing threshold mode induced by PT symmetry. Science Advances, 2020, 6, eabc1160.	10.3	48
18	Phase characterisation of metalenses. Light: Science and Applications, 2021, 10, 52.	16.6	44

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19	Manipulating bandwidth of light absorption at critical coupling: An example of graphene integrated with dielectric photonic structure. <i>Physical Review B</i> , 2019, 100, .	3.2	42
20	Guiding electromagnetic energy below the diffraction limit with dielectric particle arrays. <i>Physical Review A</i> , 2009, 79, .	2.5	38
21	From topologically protected coherent perfect reflection to bound states in the continuum. <i>Physical Review B</i> , 2018, 98, .	3.2	36
22	Extraordinarily Large Optical Cross Section for Localized Single Nanoresonator. <i>Physical Review Letters</i> , 2015, 115, 023903.	7.8	34
23	Electromagnetic scattering laws in Weyl systems. <i>Nature Communications</i> , 2017, 8, 1388.	12.8	34
24	Graded index photonic hole: Analytical and rigorous full wave solution. <i>Physical Review B</i> , 2010, 82, .	3.2	33
25	Vector Exceptional Points with Strong Superchiral Fields. <i>Physical Review Letters</i> , 2020, 124, 083901.	7.8	32
26	Broadband absorption enhancement in anisotropic metamaterials by mirror reflections. <i>Physical Review B</i> , 2009, 80, .	3.2	31
27	Observing vortex polarization singularities at optical band degeneracies. <i>Physical Review B</i> , 2019, 99, .	3.2	31
28	Scattering of electromagnetic waves from a cone with conformal mapping: Application to scanning near-field optical microscope. <i>Physical Review B</i> , 2018, 97, .	3.2	28
29	Zone-center optical phonons in wurtzite GaN and AlN. <i>Journal of Applied Physics</i> , 1997, 82, 4693-4695.	2.5	26
30	Dielectric-based extremely-low-loss subwavelength-light transport at the nanoscale: An alternative to surface-plasmon-mediated waveguiding. <i>Physical Review A</i> , 2011, 83, .	2.5	26
31	Shifting beams at normal incidence via controlling momentum-space geometric phases. <i>Nature Communications</i> , 2021, 12, 6046.	12.8	25
32	Coherent fluorescence emission by using hybrid photonicâ€“plasmonic crystals. <i>Laser and Photonics Reviews</i> , 2014, 8, 717-725.	8.7	24
33	Macroporous oxide structures with short-range order and bright structural coloration: a replication from parrot feather barbs. <i>Journal of Materials Chemistry</i> , 2010, 20, 90-93.	6.7	23
34	Gate Switching of Ultrafast Photoluminescence in Graphene. <i>Nano Letters</i> , 2018, 18, 7985-7990.	9.1	23
35	Abnormal anti-Stokes Raman scattering of carbon nanotubes. <i>Physical Review B</i> , 2002, 66, .	3.2	22
36	Tunable negative refraction in a two-dimensional active magneto-optical photonic crystal. <i>Physical Review B</i> , 2005, 71, .	3.2	22

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37	Polarization Singularities of Photonic Quasicrystals in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 043901.	7.8	22
38	Cherenkov Radiation from Photonic Bound States in the Continuum: Towards Compact Free-Electron Lasers. <i>Physical Review Applied</i> , 2018, 10, .	3.8	21
39	Hyper-interface, the bridge between radiative wave and evanescent wave. <i>Applied Physics Letters</i> , 2010, 96, 113507.	3.3	20
40	Intracellular and <i>in Vivo</i> Cyanide Mapping via Surface Plasmon Spectroscopy of Single Au@Ag Nanoboxes. <i>Analytical Chemistry</i> , 2017, 89, 2583-2591.	6.5	20
41	Amplified Spontaneous Emission Realized by Coexisting Large/Small Grains with Self-Passivating Defects and Aligning Transition Dipoles. <i>Advanced Optical Materials</i> , 2019, 7, 1900345.	7.3	19
42	Optical resonances in tubular microcavities with subwavelength wall thicknesses. <i>Applied Physics Letters</i> , 2011, 99, 211104.	3.3	18
43	Observation of bound states in the continuum in the dimerized chain. <i>Physical Review A</i> , 2019, 100, .	2.5	18
44	Momentum-space imaging spectroscopy for the study of nanophotonic materials. <i>Science Bulletin</i> , 2021, 66, 824-838.	9.0	18
45	Theoretical study of structures and growth of strained Si/Ge superlattices. <i>Applied Physics Letters</i> , 1990, 57, 165-167.	3.3	17
46	Scattering focusing and localized surface plasmons in a single Ag nanoring. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	17
47	Slow light with low group-velocity dispersion at the edge of photonic graphene. <i>Physical Review A</i> , 2011, 84, .	2.5	17
48	All-angle zero reflection at metamaterial surfaces. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	16
49	Lattice dynamics of GaN/AlN superlattices. <i>Journal of Applied Physics</i> , 1997, 82, 622-627.	2.5	14
50	Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations. <i>Advanced Optical Materials</i> , 2018, 6, 1701081.	7.3	14
51	Defect Structures for Fe <sup>3+</sup> , Mn <sup>2+</sup> , and Ni <sup>3+</sup> Impurities in Wurtzite GaN Crystals. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2001, 56, 473-477.	1.5	13
52	Using active gain to maximize light absorption. <i>Physical Review B</i> , 2017, 96, .	3.2	13
53	Transmission-Type Optical Modulator Based on Graphene Plasmonic Resonator Integrated with Off-Resonant Au Structure. <i>Advanced Optical Materials</i> , 2020, 8, 2000264.	7.3	12
54	Photonic-dispersion neural networks for inverse scattering problems. <i>Light: Science and Applications</i> , 2021, 10, 154.	16.6	12

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55	Realizing Generalized Brewster Effect by Generalized Kerker Effect. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
56	Bound states in the continuum based on the total internal reflection of Bloch waves. <i>National Science Review</i> , 2023, 10, .	9.5	11
57	PT Symmetry Induced Rings of Lasing Threshold Modes Embedded with Discrete Bound States in the Continuum. <i>Chinese Physics Letters</i> , 2021, 38, 084203.	3.3	10
58	Fast Water Waves in Stationary Surface Disk Arrays. <i>Physical Review Letters</i> , 2021, 127, 254501.	7.8	10
59	Combating rituximab resistance by inducing ceramide/lysosome-involved cell death through initiation of CD20-TNFR1 co-localization. <i>Oncolmmunology</i> , 2016, 5, e1143995.	4.6	9
60	Strain Effects on the Band Structures of GaN. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 192, 95-100.	1.5	8
61	Fabrication and Characterization of Potassium Ion-Selective Electrode Based on Porous Silicon. <i>IEEE Sensors Journal</i> , 2007, 7, 38-42.	4.7	7
62	Ways to achieve efficient non-local vortex beam generation. <i>Nanophotonics</i> , 2021, 10, 4297-4304.	6.0	7
63	Edible Amorphous Structural Color. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
64	Determination of the quantized topological magneto-electric effect in topological insulators from Rayleigh scattering. <i>Scientific Reports</i> , 2015, 5, 7948.	3.3	6
65	Extremely strong bipolar optical interactions in paired graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8561-8569.	2.8	6
66	Scan Blindness Free Design of Wideband Wide-Scanning Open-Ended Waveguide Phased Array. <i>IEEE Access</i> , 2021, 9, 68127-68138.	4.2	6
67	Structural origin of sexual dichromatic coloration and luster in the beetle <i>Goliathus cacicus</i> . <i>Science Bulletin</i> , 2012, 57, 3211-3217.	1.7	3
68	Unfolded band structures of photonic quasicrystals and moiré superlattices. <i>Physical Review B</i> , 2022, 105, .	3.2	3
69	Photonics: Using Cuttlefish Ink as an Additive to Produce Non-Iridescent Structural Colors of High Color Visibility ( <i>Adv. Mater.</i> 32/2015). <i>Advanced Materials</i> , 2015, 27, 4666-4666.	21.0	2
70	Ultrawideband, Wide Scanning Stripline-Fed Tightly Coupled Array Antenna Based on Parallel-Dipole Elements. <i>Sensors</i> , 2020, 20, 5065.	3.8	2
71	Controlling fluctuations in small structures: Hidden information in the noise. <i>Physical Review B</i> , 2021, 104, .	3.2	2
72	Microwave Bandgap in Multilayer Ceramic Structures. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1087-1090.	3.8	1

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73	Graphene Plasmonic Resonances: Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations (Advanced Optical Materials 6/2018). Advanced Optical Materials, 2018, 6, 1870023.	7.3	1
74	Porous silicon-based potassium ion selective electrode. , 0, , .		0