

Baile Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

4,359
citations

31
h-index

64
g-index

128
ext. papers

6,245
ext. citations

9.6
avg, IF

6.13
L-index

#	Paper	IF	Citations
114	Topological acoustics. <i>Physical Review Letters</i> , 2015 , 114, 114301	7.4	668
113	Acoustic higher-order topological insulator on a kagome lattice. <i>Nature Materials</i> , 2019 , 18, 108-112	27	286
112	Ultrathin three-dimensional thermal cloak. <i>Physical Review Letters</i> , 2014 , 112, 054301	7.4	272
111	Topologically protected refraction of robust kink states in valley photonic crystals. <i>Nature Physics</i> , 2018 , 14, 140-144	16.2	213
110	Terahertz topological photonics for on-chip communication. <i>Nature Photonics</i> , 2020 , 14, 446-451	33.9	174
109	Electrically pumped topological laser with valley edge modes. <i>Nature</i> , 2020 , 578, 246-250	50.4	151
108	Probing topological protection using a designer surface plasmon structure. <i>Nature Communications</i> , 2016 , 7, 11619	17.4	150
107	Realization of a three-dimensional photonic topological insulator. <i>Nature</i> , 2019 , 565, 622-626	50.4	148
106	Ab initio study of electronic and optical behavior of two-dimensional silicon carbide. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2131	7.1	111
105	All-angle negative refraction of highly squeezed plasmon and phonon polaritons in graphene-boron nitride heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6717-6721	11.5	107
104	Acoustic Type-II Weyl Nodes from Stacking Dimerized Chains. <i>Physical Review Letters</i> , 2016 , 117, 224301	7.4	89
103	Valley surface-wave photonic crystal and its bulk/edge transport. <i>Physical Review B</i> , 2017 , 96,	3.3	79
102	Realization of an Acoustic Third-Order Topological Insulator. <i>Physical Review Letters</i> , 2019 , 122, 244301	7.4	73
101	Spoof Plasmonics: From Metamaterial Concept to Topological Description. <i>Advanced Materials</i> , 2018 , 30, e1706683	24	70
100	Performing optical logic operations by a diffractive neural network. <i>Light: Science and Applications</i> , 2020 , 9, 59	16.7	65
99	Topologically enhanced harmonic generation in a nonlinear transmission line metamaterial. <i>Nature Communications</i> , 2019 , 10, 1102	17.4	59
98	Experimental Observation of Superscattering. <i>Physical Review Letters</i> , 2019 , 122, 063901	7.4	54

97	Controlling Cherenkov angles with resonance transition radiation. <i>Nature Physics</i> , 2018 , 14, 816-821	16.2	54
96	Splashing transients of 2D plasmons launched by swift electrons. <i>Science Advances</i> , 2017 , 3, e1601192	14.3	52
95	Broadband surface-wave transformation cloak. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7635-8	11.5	47
94	Observation of an acoustic octupole topological insulator. <i>Nature Communications</i> , 2020 , 11, 2442	17.4	46
93	Multifrequency Superscattering from Subwavelength Hyperbolic Structures. <i>ACS Photonics</i> , 2018 , 5, 1506-1511	6.3	46
92	Topological triply degenerate point with double Fermi arcs. <i>Nature Physics</i> , 2019 , 15, 645-649	16.2	43
91	Group-Velocity-Controlled and Gate-Tunable Directional Excitation of Polaritons in Graphene-Boron Nitride Heterostructures. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800049	8.3	38
90	Dispersion-tunable designer-plasmonic resonator with enhanced high-order resonances. <i>Optics Express</i> , 2015 , 23, 6896-902	3.3	36
89	Electrodynamics of transformation-based invisibility cloaking. <i>Light: Science and Applications</i> , 2012 , 1, e32-e32	16.7	36
88	Ab initio optical study of graphene on hexagonal boron nitride and fluorographene substrates. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1618	7.1	35
87	Superlight inverse Doppler effect. <i>Nature Physics</i> , 2018 , 14, 1001-1005	16.2	34
86	Vertical transport of subwavelength localized surface electromagnetic modes. <i>Laser and Photonics Reviews</i> , 2015 , 9, 571-576	8.3	33
85	Atomically thin nonreciprocal optical isolation. <i>Scientific Reports</i> , 2014 , 4, 4190	4.9	32
84	Topological water wave states in a one-dimensional structure. <i>Scientific Reports</i> , 2016 , 6, 29202	4.9	32
83	Controlling photonic spin Hall effect via exceptional points. <i>Physical Review B</i> , 2019 , 100,	3.3	31
82	Localized spoof surface plasmons in textured open metal surfaces. <i>Optics Letters</i> , 2016 , 41, 2181-4	3	31
81	Invisibility Dips of Near-Field Energy Transport in a Spoof Plasmonic Metadimer. <i>Advanced Functional Materials</i> , 2016 , 26, 8307-8312	15.6	31
80	Engineering Valley Polarization of Monolayer WS ₂ : A Physical Doping Approach. <i>Small</i> , 2019 , 15, e1805503	30	30

79	Circuit implementation of a four-dimensional topological insulator. <i>Nature Communications</i> , 2020 , 11, 2356	17.4	30
78	Acoustic valley edge states in a graphene-like resonator system. <i>Journal of Applied Physics</i> , 2018 , 123, 091713	2.5	30
77	Chiral Plasmons with Twisted Atomic Bilayers. <i>Physical Review Letters</i> , 2020 , 125, 077401	7.4	28
76	Valley-Hall Photonic Topological Insulators with Dual-Band Kink States. <i>Advanced Optical Materials</i> , 2019 , 7, 1900036	8.1	26
75	Complementary structure for designer localized surface plasmons. <i>Applied Physics Letters</i> , 2015 , 107, 191103	3.4	25
74	Forward/Backward Switching of Plasmonic Wave Propagation Using Sign-Reversal Coupling. <i>Advanced Materials</i> , 2017 , 29, 1700018	2.4	24
73	Valley Kink States and Topological Channel Intersections in Substrate-Integrated Photonic Circuitry. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900159	8.3	24
72	Strain-Induced Gauge Field and Landau Levels in Acoustic Structures. <i>Physical Review Letters</i> , 2017 , 118, 194301	7.4	24
71	Guiding, bending, and splitting of coupled defect surface modes in a surface-wave photonic crystal. <i>Applied Physics Letters</i> , 2016 , 108, 041105	3.4	24
70	Design, implementation, and extension of thermal invisibility cloaks. <i>AIP Advances</i> , 2015 , 5, 053402	1.5	23
69	Observation of topological edge states induced solely by non-Hermiticity in an acoustic crystal. <i>Physical Review B</i> , 2020 , 101,	3.3	23
68	Broadband Negative Refraction of Highly Squeezed Hyperbolic Polaritons in 2D Materials. <i>Research</i> , 2018 , 2018, 2532819	7.8	22
67	Observation of Protected Photonic Edge States Induced by Real-Space Topological Lattice Defects. <i>Physical Review Letters</i> , 2020 , 124, 243602	7.4	21
66	Caustic graphene plasmons with Kelvin angle. <i>Physical Review B</i> , 2015 , 92,	3.3	21
65	Non-Hermitian route to higher-order topology in an acoustic crystal. <i>Nature Communications</i> , 2021 , 12, 1888	17.4	21
64	Enhancing and controlling valley magnetic response in MoS ₂ /WS ₂ heterostructures by all-optical route. <i>Nature Communications</i> , 2019 , 10, 4226	17.4	20
63	Confined transverse electric phonon polaritons in hexagonal boron nitrides. <i>2D Materials</i> , 2018 , 5, 0150189	1.9	20
62	Transformation-Invariant Metamaterials. <i>Physical Review Letters</i> , 2019 , 123, 067701	7.4	20

61	Photonic amorphous topological insulator. <i>Light: Science and Applications</i> , 2020 , 9, 133	16.7	20
60	Optical bistability in a nonlinear-shell-coated metallic nanoparticle. <i>Scientific Reports</i> , 2016 , 6, 21741	4.9	19
59	Observation of a topological nodal surface and its surface-state arcs in an artificial acoustic crystal. <i>Nature Communications</i> , 2019 , 10, 5185	17.4	18
58	Broadband enhancement of on-chip single-photon extraction via tilted hyperbolic metamaterials. <i>Applied Physics Reviews</i> , 2020 , 7, 021403	17.3	17
57	SUPERSCATTERING OF LIGHT IN REFRACTIVE-INDEX NEAR-ZERO ENVIRONMENTS. <i>Progress in Electromagnetics Research</i> , 2020 , 168, 15-23	3.8	17
56	Topological Anderson Insulator in Disordered Photonic Crystals. <i>Physical Review Letters</i> , 2020 , 125, 133603	7.4	17
55	Multi-directional plasmonic surface-wave splitters with full bandwidth isolation. <i>Applied Physics Letters</i> , 2016 , 108, 111107	3.4	16
54	Non-Hermitian Dirac Cones. <i>Physical Review Letters</i> , 2020 , 124, 236403	7.4	15
53	Observation of an unpaired photonic Dirac point. <i>Nature Communications</i> , 2020 , 11, 1873	17.4	15
52	Tunable excitonic emission of monolayer WS ₂ for the optical detection of DNA nucleobases. <i>Nano Research</i> , 2018 , 11, 1744-1754	10	14
51	Type-I hyperbolic metasurfaces for highly-squeezed designer polaritons with negative group velocity. <i>Nature Communications</i> , 2019 , 10, 2002	17.4	13
50	Realization of deep subwavelength resolution with singular media. <i>Scientific Reports</i> , 2014 , 4, 5212	4.9	13
49	Frequency-selective propagation of localized spoof surface plasmons in a graded plasmonic resonator chain. <i>Scientific Reports</i> , 2016 , 6, 25576	4.9	13
48	Ideal Unconventional Weyl Point in a Chiral Photonic Metamaterial. <i>Physical Review Letters</i> , 2020 , 125, 143001	7.4	13
47	Deep-subwavelength magnetic-coupling-dominant interaction among magnetic localized surface plasmons. <i>Physical Review B</i> , 2016 , 93,	3.3	12
46	Polarization Shaping of Free-Electron Radiation by Gradient Bianisotropic Metasurfaces. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000426	8.3	12
45	Nonlocality Induced Cherenkov Threshold. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000149	8.3	11
44	High-order spoof localized surface plasmons supported on a complementary metallic spiral structure. <i>Scientific Reports</i> , 2016 , 6, 24447	4.9	11

43	Realizing type-II Weyl points in an optical lattice. <i>Physical Review B</i> , 2017 , 95,	3.3	10
42	Observation of Photonic Antichiral Edge States. <i>Physical Review Letters</i> , 2020 , 125, 263603	7.4	10
41	Image reconstruction through a multimode fiber with a simple neural network architecture. <i>Scientific Reports</i> , 2021 , 11, 896	4.9	10
40	Interferenceless Polarization Splitting Through Nanoscale van der Waals Heterostructures. <i>Physical Review Applied</i> , 2018 , 10,	4.3	10
39	Normal Doppler Frequency Shift in Negative Refractive-Index Systems. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900081	8.3	8
38	Electromagnetic detection of a perfect carpet cloak. <i>Scientific Reports</i> , 2015 , 5, 10401	4.9	8
37	Topology-Controlled Photonic Cavity Based on the Near-Conservation of the Valley Degree of Freedom. <i>Physical Review Letters</i> , 2020 , 125, 213902	7.4	8
36	Vortex states in an acoustic Weyl crystal with a topological lattice defect. <i>Nature Communications</i> , 2021 , 12, 3654	17.4	8
35	Ideal type-II Weyl points in topological circuits. <i>National Science Review</i> , 2021 , 8, nwaa192	10.8	8
34	Flexible Photonic Topological Insulator. <i>Advanced Optical Materials</i> , 2018 , 6, 1800532	8.1	8
33	Aperiodic Metagratings for High-Performance Multifunctional Acoustic Lenses. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000542	6.8	7
32	Invisibility cloaks from forward design to inverse design. <i>Science China Information Sciences</i> , 2013 , 56, 1-11	3.4	7
31	Topological Valley Photonics: Physics and Device Applications. <i>Advanced Photonics Research</i> , 2021 , 2, 2100013	1.9	7
30	Fermi-Arc-Induced Vortex Structure in Weyl Beam Shifts. <i>Physical Review Letters</i> , 2019 , 122, 066602	7.4	7
29	Toggling Near-Field Directionality via Polarization Control of Surface Waves. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000388	8.3	7
28	A Brewster route to Cherenkov detectors. <i>Nature Communications</i> , 2021 , 12, 5554	17.4	7
27	Projectively Enriched Symmetry and Topology in Acoustic Crystals.. <i>Physical Review Letters</i> , 2022 , 128, 116802	7.4	7
26	Directing Cherenkov photons with spatial nonlocality. <i>Nanophotonics</i> , 2020 , 9, 3435-3442	6.3	6

25	Spin Momentum Locked Surface States in Metamaterials without Topological Transition. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800002	8.3	5
24	Acoustic non-Hermitian skin effect from twisted winding topology. <i>Nature Communications</i> , 2021 , 12, 6297	17.4	5
23	Confined transverse-electric graphene plasmons in negative refractive-index systems. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	5
22	Demonstration of topological wireless power transfer. <i>Science Bulletin</i> , 2021 , 66, 974-980	10.6	5
21	Time-periodic corner states from Floquet higher-order topology.. <i>Nature Communications</i> , 2022 , 13, 11	17.4	4
20	Observation of Dislocation-Induced Topological Modes in a Three-Dimensional Acoustic Topological Insulator. <i>Physical Review Letters</i> , 2021 , 127, 214301	7.4	4
19	Topological slow light via coupling chiral edge modes with flatbands. <i>Applied Physics Letters</i> , 2021 , 118, 071102	3.4	4
18	Subwavelength wave manipulation in a thin surface-wave bandgap crystal. <i>Optics Letters</i> , 2018 , 43, 50-53		3
17	Phase-preserved macroscopic visible-light carpet cloaking beyond two dimensions. <i>Laser and Photonics Reviews</i> , 2015 , 9, 399-404	8.3	3
16	Surface Dyakonov-Cherenkov radiation. <i>ELight</i> , 2022 , 2,		3
15	Antichiral edge states in an acoustic resonator lattice with staggered air flow. <i>Journal of Applied Physics</i> , 2021 , 129, 235103	2.5	3
14	Negative refraction of ultra-squeezed in-plane hyperbolic designer polaritons. <i>Photonics Research</i> , 2021 , 9, 1540	6	3
13	Metamaterials: Giant Asymmetric Radiation from an Ultrathin Bianisotropic Metamaterial (Adv. Sci. 7/2018). <i>Advanced Science</i> , 2018 , 5, 1870042	13.6	2
12	Waveguide design and application with transformation optics. <i>Science China Information Sciences</i> , 2013 , 56, 1-11	3.4	2
11	Experimental demonstration of Fabry-Perot open resonators in a surface-wave bandgap crystal. <i>Applied Physics Letters</i> , 2017 , 111, 121102	3.4	2
10	A conformal transformation approach to wide-angle illusion device and absorber. <i>Nanophotonics</i> , 2020 , 9, 3243-3249	6.3	2
9	Experimental demonstration of broadband reflectionless diffraction-free electromagnetic wave routing. <i>Physical Review B</i> , 2016 , 94,	3.3	2
8	Demonstration of negative refraction induced by synthetic gauge fields. <i>Science Advances</i> , 2021 , 7, eabj2062	10.3	2

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| 7 | Resolution criteria in double-slit microscopic imaging experiments. <i>Scientific Reports</i> , 2016 , 6, 33764 | 4.9 | 1 |
| 6 | Transformation cloaks for surface electromagnetic waves 2015 , | | 1 |
| 5 | Giant Enhancement of Unconventional Photon Blockade in a Dimer Chain.. <i>Physical Review Letters</i> , 2021 , 127, 240402 | 7.4 | 1 |
| 4 | Deterministic and Scalable Generation of Exciton Emitters in 2D Semiconductor Nanodisks. <i>Advanced Optical Materials</i> , 2102702 | 8.1 | 0 |
| 3 | Mode-selective single-dipole excitation and controlled routing of guided waves in a multi-mode topological waveguide. <i>Applied Physics Letters</i> , 2022 , 120, 221702 | 3.4 | 0 |
| 2 | Translation and Rotation of Transformation Media under Electromagnetic Pulse. <i>Scientific Reports</i> , 2016 , 6, 28346 | 4.9 | |
| 1 | Some topological phases for sound 2018 , 25-48 | | |