

Kai Guo

List of Publications by Year in Descending Order

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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.

82
papers

1,370
citations

20
h-index

35
g-index

100
ext. papers

1,922
ext. citations

6
avg, IF

4.73
L-index

#	Paper	IF	Citations
82	Multiwavelength magnetic coding of helical luminescence in ferromagnetic 2D layered CrI ₃ . <i>IScience</i> , 2022 , 25, 103623	6.1	3
81	On-Chip Nonreciprocal Photonic Devices Based on Hybrid Integration of Magneto-Optical Garnet Thin Films on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 28, 1-15	3.8	2
80	Full Control of Fano Spectral Profile with GST-Based Metamaterial. <i>ACS Photonics</i> , 2022 , 9, 888-894	6.3	0
79	Observation of optical gyromagnetic properties in a magneto-plasmonic metamaterial. <i>Nature Communications</i> , 2022 , 13, 1719	17.4	5
78	Cooling property and application of AuBi ₂ Te ₃ heterojunction nanowire array based on AAO template. <i>Journal of Materials Science</i> , 2021 , 56, 10892-10904	4.3	
77	Generation and Focusing of Orbital Angular Momentum Based on Polarized Reflectarray at Microwave Frequency. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 1829-1837	4.1	7
76	Design for a TE Mode Magneto-Optical Circulator Based on Asymmetric Silicon Slot Waveguides 2021 ,		1
75	Equivalent electromagnetic parameters extraction method for graded honeycomb absorbing materials. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	2
74	Ferromagnetic and ferroelectric two-dimensional materials for memory application. <i>Nano Research</i> , 2021 , 14, 1802-1813	10	9
73	Polyaddition enabled functional polymer/inorganic hybrid electrolytes for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6881-6889	13	1
72	Influence of High-Enthalpy Atmospheric Plasma Spraying Process Parameters on Microwave Dielectric Properties of Y ₂ O ₃ Coatings. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 898-906	2.5	1
71	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@AlO Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. <i>Nano-Micro Letters</i> , 2021 , 13, 161	19.5	22
70	Covalently Linked Polymer/Inorganic Hybrid Electrolyte with Ionic Liquid for Lithium Metal Batteries. <i>ChemistrySelect</i> , 2021 , 6, 8416-8421	1.8	0
69	Toward Easy-to-Assemble, Large-Area Smart Windows: All-in-One Cross-Linked Electrochromic Material and Device. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27526-27536	9.5	16
68	An Anomalous Magneto-Optic Effect in Epitaxial Indium Selenide Layers. <i>Nano Letters</i> , 2020 , 20, 5330-5335	11.5	4
67	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS ₂ . <i>ACS Nano</i> , 2020 , 14, 4636-4645	16.7	32
66	Periodical distribution of Au nanoparticles through dewetting on patterned substrates. <i>Applied Physics Letters</i> , 2020 , 116, 103106	3.4	1

65	Tunable magnetic textures and excitation modes in FePt multilayer films.. <i>RSC Advances</i> , 2020 , 10, 25639-25644	3.7	7
64	Verification of topological magnetic properties of patterned ferromagnetic films. <i>Applied Physics Letters</i> , 2020 , 116, 262402	3.4	
63	Magnetic-brightening and control of dark exciton in CsPbBr ₃ perovskite. <i>Science China Materials</i> , 2020 , 63, 1503-1509	7.1	7
62	Spin-Valley Locking Effect in Defect States of Monolayer MoS. <i>Nano Letters</i> , 2020 , 20, 2129-2136	11.5	27
61	Switching the Optical Chirality in Magnetoplasmonic Metasurfaces Using Applied Magnetic Fields. <i>ACS Nano</i> , 2020 , 14, 2808-2816	16.7	30
60	Observation of Photonic Antichiral Edge States. <i>Physical Review Letters</i> , 2020 , 125, 263603	7.4	10
59	Large-scale, power-efficient Au/VO ₂ active metasurfaces for ultrafast optical modulation. <i>Nanophotonics</i> , 2020 , 10, 909-918	6.3	7
58	Layer dependence of stacking order in nonencapsulated few-layer CrI ₃ . <i>Science China Materials</i> , 2020 , 63, 413-420	7.1	20
57	Photonic amorphous topological insulator. <i>Light: Science and Applications</i> , 2020 , 9, 133	16.7	20
56	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI. <i>Science Advances</i> , 2020 , 6,	14.3	16
55	Control of Resonance Absorption Modes for Broadband Infrared Metamaterial Absorber. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-10	1.8	4
54	Wavefront Control of 2D Curved Coding Metasurfaces Based on Extended Array Theory. <i>IEEE Access</i> , 2019 , 7, 158427-158433	3.5	1
53	Design of the high-efficiency transmission-type polarization converter based on substrate-integrated waveguide (SIW) technology. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	1
52	High-Temperature Oxidation-Resistant ZrNB/SiC Nanohybrid for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15869-15880	9.5	110
51	Design of phase matching chessboard-like electromagnetic metasurfaces for wideband radar cross section reduction. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 2037-2045	1.2	3
50	Directly grown high-performance WO ₃ films by a novel one-step hydrothermal method with significantly improved stability for electrochromic applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13956-13967	13	36
49	Low fractal dimension modified drilling-hole wall for PTFE high-frequency board copper plating with plasma treatment. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48052	2.9	3
48	Dysprosium substituted Ce:YIG thin films with perpendicular magnetic anisotropy for silicon integrated optical isolator applications. <i>APL Materials</i> , 2019 , 7, 081119	5.7	21

47	A Stretchable Metamaterial Absorber With Deformation Compensation Design at Microwave Frequencies. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 291-297	4.9	18
46	Enhanced Second Harmonic Generation from Ferroelectric HfO-Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019 , 13, 1213-1222	16.7	15
45	Oxidation behaviour of plasma-sprayed ZrB ₂ -SiC coatings. <i>Ceramics International</i> , 2019 , 45, 2385-2392	5.1	19
44	Compact High-Efficiency Broadband Metamaterial Polarizing Reflector at Microwave Frequencies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 606-614	4.1	22
43	Heterostructured Nanorings of Fe-FeO@C Hybrid with Enhanced Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9369-9378	9.5	180
42	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. <i>Nature Communications</i> , 2018 , 9, 1481	17.4	78
41	The effect of ethylene glycol on pore arrangement of anodic aluminium oxide prepared by hard anodization. <i>Royal Society Open Science</i> , 2018 , 5, 171412	3.3	6
40	Enhanced Faraday rotation and magneto-optical figure of merit in gold grating/graphene/silicon hybrid magneto-plasmonic devices. <i>APL Photonics</i> , 2018 , 3, 016103	5.2	16
39	Dual-band reflective polarization converter based on slotted wire resonators. <i>Applied Physics B: Lasers and Optics</i> , 2018 , 124, 1	1.9	11
38	Strain tunable magnetic properties of 3d transition-metal ion doped monolayer MoS ₂ : A first-principles study. <i>AIP Advances</i> , 2018 , 8, 055917	1.5	9
37	Magnetic Properties of Hexagonal Barium Ferrite Films on Pt(111)/Al ₂ O ₃ (0001) Substrate Based on Optimized Thickness of Pt. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 56-60	2.6	5
36	The Effect of Processing Parameters on the Formation and Properties of Al/Ni Core-Shell Pigments via a Galvanic Displacement Method. <i>Coatings</i> , 2018 , 8, 200	2.9	1
35	A novel terahertz phased array based on coupled oscillators 2018 ,		2
34	Design of reducing mutual coupling in between two closely spaced dual-frequency antennas based on combined electromagnetic soft surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	0
33	Magnetic Proximity Effect and Anomalous Hall Effect in Pt/Y ₃ Fe _{5-x} Al _x O ₁₂ Heterostructures. <i>Physical Review Applied</i> , 2018 , 10,	4.3	6
32	Intelligent Biomimetic Chameleon Skin with Excellent Self-Healing and Electrochromic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35533-35538	9.5	39
31	A light weight and broadband metamaterial absorber with 3D cube unit cells. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	1
30	Design of Phase Gradient Coding Metasurfaces for Broadband Wave Modulating. <i>Scientific Reports</i> , 2018 , 8, 8672	4.9	13

29	Modes Coupling Analysis of Surface Plasmon Polaritons Based Resonance Manipulation in Infrared Metamaterial Absorber. <i>Scientific Reports</i> , 2017 , 7, 46093	4.9	9
28	Bose-Einstein oscillators and the excitation mechanism of free excitons in 2D layered organic-inorganic perovskites. <i>RSC Advances</i> , 2017 , 7, 18366-18373	3.7	7
27	Microwave absorbing performance enhancement of Fe ₇₅ Si ₁₅ Al ₁₀ composites by selective surface oxidation. <i>Journal of Applied Physics</i> , 2017 , 122, 105103	2.5	6
26	A novel self-healing electrochromic film based on a triphenylamine cross-linked polymer. <i>Polymer Chemistry</i> , 2017 , 8, 6981-6988	4.9	16
25	Structural and Visible-Near-Infrared Optical Properties of Cr-Doped TiO ₂ for Colored Cool Pigments. <i>Nanoscale Research Letters</i> , 2017 , 12, 597	5	23
24	Valley Polarization of Trions and Magnetoresistance in Heterostructures of MoS ₂ and Yttrium Iron Garnet. <i>ACS Nano</i> , 2017 , 11, 12257-12265	16.7	25
23	Preparation and Angle-Dependent Optical Properties of Brown Al/MnO Composite Pigments in Visible and Infrared Region. <i>Nanoscale Research Letters</i> , 2017 , 12, 266	5	1
22	Fatigue mechanism of yttrium-doped hafnium oxide ferroelectric thin films fabricated by pulsed laser deposition. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3486-3497	3.6	56
21	Ultrabroadband Design for Linear Polarization Conversion and Asymmetric Transmission Crossing X- and K- Band. <i>Scientific Reports</i> , 2016 , 6, 33826	4.9	41
20	Achieving Ultrafast Hole Transfer at the Monolayer MoS ₂ and CH ₃ NH ₃ PbI ₃ Perovskite Interface by Defect Engineering. <i>ACS Nano</i> , 2016 , 10, 6383-91	16.7	90
19	Influence of Interface Structure on Magnetic Proximity Effect in Pt/Y ₃ Fe ₅ O ₁₂ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8175-83	9.5	30
18	Structural, electronic properties and enhancement of electrical polarization in Er ₂ NiMnO ₆ /La ₂ NiMnO ₆ superlattice by first-principles calculations. <i>AIP Advances</i> , 2016 , 6, 035219	1.5	4
17	Magnetic Properties of Ferromagnetic Microstructured Multilayer Films. <i>IEEE Magnetism Letters</i> , 2016 , 7, 1-4	1.6	
16	Ultra-broadband absorption in mid-infrared spectrum with graded permittivity metamaterial waveguide structure. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 409-415	1.9	9
15	Ultra-Thin Reflective Metamaterial Polarization Rotator Based on Multiple Plasmon Resonances. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1157-1160	3.8	72
14	Enhanced Nucleation of Magnetic Vortex in Geometrically Confined Nanodots. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-4	2	1
13	Enhancing the Microwave Absorption Properties of Fe ₃ O ₄ /Nb ₂ O ₅ Nanocomposite Flakes by Coating With Spinel Ferrite NiFe ₂ O ₄ . <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-4	2	4
12	Broadband and wide-angle reflective polarization converter based on metasurface at microwave frequencies. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 120, 617-622	1.9	24

11	Spin orientation driven static and dynamic magnetic process in amorphous FeCoBSi thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 213906	2.5	1
10	Prediction of Microwave Absorption Behavior of Grading Honeycomb Composites Based on Effective Permittivity Formulas. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3496-3501	4.9	30
9	Ultra-thin wideband magnetic-type metamaterial absorber based on LC resonator at low frequencies. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 233-238	2.6	18
8	Large Electromagnetic Wave Absorbing Bandwidth of Composites Containing Fe ₃ O ₄ Nanoribbons. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
7	Compositional Control and Millimeter-Wave Properties of Micro-/Nano-Sized $\text{M}^2\text{-Type}$ Barium Hexaferrite Synthesized by Hydrothermal Method. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
6	Oblique Incidence Performance of Microwave Absorbers Based on Magnetic Polymer Composites. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
5	The Structure and Magnetic Moment Study of FeBiAl by First-Principles Calculation. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	1
4	A Broadband Radar Absorber Based on Perforated Magnetic Polymer Composites Embedded With FSS. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-5	2	16
3	50 nm-thick yttrium iron garnet film with perpendicular magnetic anisotropy. <i>Chinese Physics B</i> ,	1.2	1
2	Design of an ultra-broadband microwave metamaterial absorber based on multilayer structures. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> ,	1.5	0
1	Circular Displacement Current Induced Anomalous Magneto-Optical Effects in High Index Mie Resonators. <i>Laser and Photonics Reviews</i> , 2200067	8.3	1