

Kai Guo

List of Publications by Year in descending order

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papers

2,456
citations

201385

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all docs

100
docs citations

100
times ranked

3390
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterostructured Nanorings of Fe [~] Fe ₃ O ₄ @C Hybrid with Enhanced Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2018, 10, 9369-9378.	4.0	244
2	High-Temperature Oxidation-Resistant ZrN _{0.4} B _{0.6} /SiC Nanohybrid for Enhanced Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 15869-15880.	4.0	150
3	Achieving Ultrafast Hole Transfer at the Monolayer MoS ₂ and CH ₃ NH ₃ PbI ₃ Perovskite Interface by Defect Engineering. ACS Nano, 2016, 10, 6383-6391.	7.3	130
4	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. Nature Communications, 2018, 9, 1481.	5.8	126
5	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@Al ₂ O ₃ Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. Nano-Micro Letters, 2021, 13, 161.	14.4	103
6	Ultra-Thin Reflective Metamaterial Polarization Rotator Based on Multiple Plasmon Resonances. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1157-1160.	2.4	101
7	Fatigue mechanism of yttrium-doped hafnium oxide ferroelectric thin films fabricated by pulsed laser deposition. Physical Chemistry Chemical Physics, 2017, 19, 3486-3497.	1.3	84
8	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS ₂ . ACS Nano, 2020, 14, 4636-4645.	7.3	69
9	Directly grown high-performance WO ₃ films by a novel one-step hydrothermal method with significantly improved stability for electrochromic applications. Journal of Materials Chemistry A, 2019, 7, 13956-13967.	5.2	67
10	Intelligent Biomimetic Chameleon Skin with Excellent Self-Healing and Electrochromic Properties. ACS Applied Materials & Interfaces, 2018, 10, 35533-35538.	4.0	63
11	Spin-Valley Locking Effect in Defect States of Monolayer MoS ₂ . Nano Letters, 2020, 20, 2129-2136.	4.5	61
12	Compact High-Efficiency Broadband Metamaterial Polarizing Reflector at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 606-614.	2.9	59
13	Photonic amorphous topological insulator. Light: Science and Applications, 2020, 9, 133.	7.7	58
14	Switching the Optical Chirality in Magnetoplasmonic Metasurfaces Using Applied Magnetic Fields. ACS Nano, 2020, 14, 2808-2816.	7.3	57
15	Prediction of Microwave Absorption Behavior of Grading Honeycomb Composites Based on Effective Permittivity Formulas. IEEE Transactions on Antennas and Propagation, 2015, 63, 3496-3501.	3.1	49
16	Ultrabroadband Design for Linear Polarization Conversion and Asymmetric Transmission Crossing X- and K- Band. Scientific Reports, 2016, 6, 33826.	1.6	49
17	Observation of Photonic Antichiral Edge States. Physical Review Letters, 2020, 125, 263603.	2.9	47
18	Toward Easy-to-Assemble, Large-Area Smart Windows: All-in-One Cross-Linked Electrochromic Material and Device. ACS Applied Materials & Interfaces, 2020, 12, 27526-27536.	4.0	44

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19	Structural and Visible-Near-Infrared Optical Properties of Cr-Doped TiO ₂ for Colored Cool Pigments. <i>Nanoscale Research Letters</i> , 2017, 12, 597.	3.1	38
20	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI ₃ . <i>Science Advances</i> , 2020, 6, .	4.7	37
21	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, 8175-8183.	4.0	36
22	Valley Polarization of Trions and Magnetoresistance in Heterostructures of MoS ₂ and Yttrium Iron Garnet. <i>ACS Nano</i> , 2017, 11, 12257-12265.	7.3	35
23	Nanophotonic devices based on magneto-optical materials: recent developments and applications. <i>Nanophotonics</i> , 2022, 11, 2639-2659.	2.9	35
24	A Stretchable Metamaterial Absorber With Deformation Compensation Design at Microwave Frequencies. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 291-297.	3.1	32
25	Ferromagnetic and ferroelectric two-dimensional materials for memory application. <i>Nano Research</i> , 2021, 14, 1802-1813.	5.8	32
26	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.	1.1	31
27	Dysprosium substituted Ce:YIG thin films with perpendicular magnetic anisotropy for silicon integrated optical isolator applications. <i>APL Materials</i> , 2019, 7, .	2.2	30
28	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019, 13, 1213-1222.	7.3	29
29	Large-scale, power-efficient Au/VO ₂ active metasurfaces for ultrafast optical modulation. <i>Nanophotonics</i> , 2020, 10, 909-918.	2.9	28
30	Layer dependence of stacking order in nonencapsulated few-layer CrI ₃ . <i>Science China Materials</i> , 2020, 63, 413-420.	3.5	27
31	Oxidation behaviour of plasma-sprayed ZrB ₂ -SiC coatings. <i>Ceramics International</i> , 2019, 45, 2385-2392.	2.3	25
32	A Broadband Radar Absorber Based on Perforated Magnetic Polymer Composites Embedded With FSS. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-5.	1.2	22
33	A novel self-healing electrochromic film based on a triphenylamine cross-linked polymer. <i>Polymer Chemistry</i> , 2017, 8, 6981-6988.	1.9	22
34	Enhanced Faraday rotation and magneto-optical figure of merit in gold grating/graphene/silicon hybrid magneto-plasmonic devices. <i>APL Photonics</i> , 2018, 3, .	3.0	22
35	Design of Phase Gradient Coding Metasurfaces for Broadband Wave Modulating. <i>Scientific Reports</i> , 2018, 8, 8672.	1.6	22
36	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.	2.9	22

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37	Observation of optical gyromagnetic properties in a magneto-plasmonic metamaterial. <i>Nature Communications</i> , 2022, 13, 1719.	5.8	22
38	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.	1.1	21
39	Enhancement of the Faraday Effect and Magneto-optical Figure of Merit in All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2022, 9, 1240-1247.	3.2	18
40	Microwave absorbing performance enhancement of Fe ₇₅ Si ₁₅ Al ₁₀ composites by selective surface oxidation. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	17
41	Dual-band reflective polarization converter based on slotted wire resonators. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	1.1	17
42	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.	1.1	14
43	Circular Displacement Current Induced Anomalous Magneto-optical Effects in High Index Mie Resonators. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	13
44	Strain tunable magnetic properties of 3d transition-metal ion doped monolayer MoS ₂ : A first-principles study. <i>AIP Advances</i> , 2018, 8, 055917.	0.6	12
45	Magnetic Proximity Effect and Anomalous Hall Effect in $\text{Pt}/\text{MoS}_2/\text{Pt}$ heterostructure. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
46	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. <i>Nano Letters</i> , 2022, 22, 203-210.	4.5	12
47	Polyaddition enabled functional polymer/inorganic hybrid electrolytes for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6881-6889.	5.2	11
48	Design of an ultra-broadband microwave metamaterial absorber based on multilayer structures. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2022, 32, .	0.8	11
49	Modes Coupling Analysis of Surface Plasmon Polaritons Based Resonance Manipulation in Infrared Metamaterial Absorber. <i>Scientific Reports</i> , 2017, 7, 46093.	1.6	10
50	An Anomalous Magneto-Optic Effect in Epitaxial Indium Selenide Layers. <i>Nano Letters</i> , 2020, 20, 5330-5338.	4.5	10
51	Full Control of Fano Spectral Profile with GST-Based Metamaterial. <i>ACS Photonics</i> , 2022, 9, 888-894.	3.2	10
52	Bose-Einstein oscillators and the excitation mechanism of free excitons in 2D layered organic-inorganic perovskites. <i>RSC Advances</i> , 2017, 7, 18366-18373.	1.7	9
53	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.	0.9	9
54	Oblique Incidence Performance of Microwave Absorbers Based on Magnetic Polymer Composites. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	8

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55	The effect of ethylene glycol on pore arrangement of anodic aluminium oxide prepared by hard anodization. Royal Society Open Science, 2018, 5, 171412.	1.1	8
56	Magnetic-brightening and control of dark exciton in CsPbBr ₃ perovskite. Science China Materials, 2020, 63, 1503-1509.	3.5	8
57	Pattern-Selective Molecular Epitaxial Growth of Single-Crystalline Perovskite Arrays toward Ultrasensitive and Ultrafast Photodetector. Nano Letters, 2022, 22, 2948-2955.	4.5	8
58	Enhancing the Microwave Absorption Properties of Fe ²⁺ /Cu ²⁺ /Nb ⁵⁺ /Si ⁴⁺ /B Nanocomposite Flakes by Coating With Spinel Ferrite NiFe ₂ O ₄ . IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	7
59	Structural, electronic properties and enhancement of electrical polarization in Er ₂ NiMnO ₆ /La ₂ NiMnO ₆ superlattice by first-principles calculations. AIP Advances, 2016, 6, .	0.6	7
60	A light weight and broadband metamaterial absorber with 3D cube unit cells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	7
61	Low fractal dimension modified drilling hole wall for PTFE high frequency board copper plating with plasma treatment. Journal of Applied Polymer Science, 2019, 136, 48052.	1.3	7
62	Wavefront Control of 2D Curved Coding Metasurfaces Based on Extended Array Theory. IEEE Access, 2019, 7, 158427-158433.	2.6	7
63	On-Chip Nonreciprocal Photonic Devices Based on Hybrid Integration of Magneto-Optical Garnet Thin Films on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-15.	1.9	7
64	Magnetic Properties of Hexagonal Barium Ferrite Films on Pt(111)/Al ₂ O ₃ (0001) Substrate Based on Optimized Thickness of Pt. IEEE Nanotechnology Magazine, 2018, 17, 56-60.	1.1	6
65	The 50 nm-thick yttrium iron garnet films with perpendicular magnetic anisotropy. Chinese Physics B, 2022, 31, 048503.	0.7	6
66	Control of Resonance Absorption Modes for Broadband Infrared Metamaterial Absorber. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	5
67	Tunable magnetic textures and excitation modes in FePt multilayer films. RSC Advances, 2020, 10, 25639-25644.	1.7	5
68	Equivalent electromagnetic parameters extraction method for graded honeycomb absorbing materials. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	5
69	Large Electromagnetic Wave Absorbing Bandwidth of Composites Containing Fe ₃ O ₄ Nanoribbons. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	4
70	Influence of High-Enthalpy Atmospheric Plasma Spraying Process Parameters on Microwave Dielectric Properties of Y ₂ O ₃ Coatings. Journal of Thermal Spray Technology, 2021, 30, 898-906.	1.6	4
71	Multiwavelength magnetic coding of helical luminescence in ferromagnetic 2D layered CrI ₃ . IScience, 2022, 25, 103623.	1.9	4
72	Dysprosium Substituted Ce:YIG Thin Films for Temperature Insensitive Integrated Optical Isolator Applications. Materials, 2022, 15, 1691.	1.3	4

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73	Compositional Control and Millimeter-Wave Properties of Micro-/Nano-Sized $\text{Ba}_{1-x}\text{Sr}_x\text{Fe}_{12}\text{O}_{19}$ Type Barium Hexaferrite Synthesized by Hydrothermal Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
74	A novel terahertz phased array based on coupled oscillators. , 2018, , .		3
75	Design of the high-efficiency transmission-type polarization converter based on substrate-integrated waveguide (SIW) technology. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	3
76	The Structure and Magnetic Moment Study of Fe_2SiAl by First-Principles Calculation. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
77	Dual-band polarization converter based on reflective metamaterial at microwave frequencies. , 2016, , .		2
78	Design of reducing mutual coupling in between two closely spaced dual-frequency antennas based on combined electromagnetic soft surfaces. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	2
79	Enhanced Nucleation of Magnetic Vortex in Geometrically Confined Nanodots. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	1
80	Spin orientation driven static and dynamic magnetic process in amorphous FeCoBSi thin films. Journal of Applied Physics, 2015, 117, 213906.	1.1	1
81	Preparation and Angle-Dependent Optical Properties of Brown Al/MnO ₂ Composite Pigments in Visible and Infrared Region. Nanoscale Research Letters, 2017, 12, 266.	3.1	1
82	The Effect of Processing Parameters on the Formation and Properties of Al/Ni Core-Shell Pigments via a Galvanic Displacement Method. Coatings, 2018, 8, 200.	1.2	1
83	Periodical distribution of Au nanoparticles through dewetting on patterned substrates. Applied Physics Letters, 2020, 116, 103106.	1.5	1
84	Design for a TE Mode Magneto-Optical Circulator Based on Asymmetric Silicon Slot Waveguides. , 2021, , .		1
85	Covalently Linked Polymer/Inorganic Hybrid Electrolyte with Ionic Liquid for Lithium Metal Batteries. ChemistrySelect, 2021, 6, 8416-8421.	0.7	1
86	Design of soft and hard composite patterns for electromagnetic scattering controlling at both normal and grazing incidence. Microwave and Optical Technology Letters, 2022, 64, 1565-1571.	0.9	1
87	Magnetic Properties of Ferromagnetic Microstructured Multilayer Films. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	0
88	Low frequency (100 kHz~1 MHz) permeability measurement method in magnetic material. , 2016, , .		0
89	A novel combination-type electromagnetic gradient metasurface for specular RCS reduction. , 2016, , .		0
90	Dual-band, polarization-insensitive, and wide-angle ultra-thin metamaterial absorber with interference theory analysis. , 2016, , .		0

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91	Magnetic properties of hexagonal barium ferrite films on Pt(111)/Al ₂ O ₃ (0001) substrate based on optimized thickness of Pt. , 2016, , .		0
92	A High-efficiency and wideband tunable converter based on a petal metasurface. , 2019, , .		0
93	Verification of topological magnetic properties of patterned ferromagnetic films. Applied Physics Letters, 2020, 116, 262402.	1.5	0
94	Cooling property and application of Au-Bi ₂ Te ₃ heterojunction nanowire array based on AAO template. Journal of Materials Science, 2021, 56, 10892-10904.	1.7	0
95	Microwave Absorbing Properties of Amorphous FeCuNbSiB Microwires Multilayer Composites. , 2007, , .		0
96	A Reconfigurable All-Dielectric Metasurface Based on Vanadium Dioxide for Independent Control of the Mie Resonances. , 2020, , .		0
97	A Polarization-insensitive Metamaterial Absorber with both Low and High Frequency Absorption Based on Magnetic Material. , 2021, , .		0
98	Ultra-broadband, Wide-angle Microwave Metamaterial Absorber Based on 3D FSS Array. , 2021, , .		0
99	A Novel Approach to Analyse the Band Gap of Mushroom-like Electromagnetic Band Gap Structure. , 2022, , .		0