

Xiaohu Wu

List of Publications by Year in descending order

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77
papers

1,331
citations

304743

22
h-index

414414

32
g-index

78
all docs

78
docs citations

78
times ranked

354
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband wide-angle multilayer absorber based on a broadband omnidirectional optical Tamm state. <i>Optics Express</i> , 2021, 29, 23976.	3.4	75
2	Near-Field Radiative Heat Transfer Between Two $\hat{\epsilon}$ -MoO ₃ Biaxial Crystals. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	68
3	Validity of Kirchhoff's law for semitransparent films made of anisotropic materials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 245, 106904.	2.3	66
4	Enhanced nonreciprocal radiation in Weyl semimetals by attenuated total reflection. <i>AIP Advances</i> , 2021, 11, .	1.3	45
5	Influence of hBN orientation on the near-field radiative heat transfer between graphene/hBN heterostructures. <i>Journal of Photonics for Energy</i> , 2018, 9, 1.	1.3	44
6	Tunable nonreciprocal thermal emitter based on metal grating and graphene. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107316.	4.9	43
7	Dual-band nonreciprocal thermal radiation by coupling optical Tamm states in magnetophotonic multilayers. <i>International Journal of Thermal Sciences</i> , 2022, 175, 107457.	4.9	43
8	Near-field radiative modulator based on dissimilar hyperbolic materials with in-plane anisotropy. <i>International Journal of Heat and Mass Transfer</i> , 2021, 168, 120908.	4.8	38
9	Strong nonreciprocal radiation in magnetophotonic crystals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107794.	2.3	38
10	Strong dual-band nonreciprocal radiation based on a four-part periodic metal grating. <i>Optical Materials</i> , 2021, 120, 111476.	3.6	38
11	The giant enhancement of nonreciprocal radiation in Thue-morse aperiodic structures. <i>Optics and Laser Technology</i> , 2022, 152, 108138.	4.6	36
12	Perfect metamaterial absorber for solar energy utilization. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107638.	4.9	35
13	Near-field radiative heat transfer between uniaxial hyperbolic media: Role of volume and surface phonon polaritons. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 258, 107337.	2.3	33
14	Near-complete violation of Kirchhoff's law of thermal radiation in ultrathin magnetic Weyl semimetal films. <i>Optical Materials Express</i> , 2021, 11, 4058.	3.0	33
15	Effect of orientation on the directional and hemispherical emissivity of hyperbolic metamaterials. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 1207-1217.	4.8	29
16	Solar absorption characteristics of SiO ₂ @Au core-shell composite nanorods for the direct absorption solar collector. <i>Renewable Energy</i> , 2022, 189, 402-411.	8.9	29
17	Emergent asymmetries and enhancement in the absorption of natural hyperbolic crystals. <i>Optica</i> , 2019, 6, 1478.	9.3	28
18	Rotation-induced significant modulation of near-field radiative heat transfer between hyperbolic nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2022, 189, 122666.	4.8	28

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19	Radiative Thermal Switch Exploiting Hyperbolic Surface Phonon Polaritons. <i>Physical Review Applied</i> , 2021, 15, .	3.8	27
20	Broadband and wide-angle solar absorber for the visible and near-infrared frequencies. <i>Solar Energy</i> , 2022, 238, 78-83.	6.1	27
21	Super-planckian thermal radiation in borophene sheets. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122140.	4.8	26
22	Strong chirality in twisted bilayer $\hat{\pm}$ -MoO ₃ . <i>Chinese Physics B</i> , 2022, 31, 044101.	1.4	26
23	Strong extrinsic chirality in biaxial hyperbolic material $\hat{\pm}$ -MoO ₃ with in-plane anisotropy. <i>Applied Optics</i> , 2021, 60, 4599.	1.8	22
24	Manipulation of enhanced absorption with tilted hexagonal boron nitride slabs. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 209, 150-155.	2.3	21
25	Ultra-Broadband Perfect Absorption with Stacked Asymmetric Hyperbolic Metamaterial Slabs. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2018, 22, 114-123.	2.6	21
26	Chiral response of a twisted bilayer of hexagonal boron nitride. <i>Optics Communications</i> , 2019, 452, 124-129.	2.1	20
27	Thermal conductivity of micro/nano-porous polymers: Prediction models and applications. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	19
28	Hyperbolic volume and surface phonon polaritons excited in an ultrathin hyperbolic slab: connection of dispersion and topology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2021, 25, 64-71.	2.6	18
29	Strong nonreciprocal thermal radiation in Weyl semimetal-dielectric multilayer structure. <i>International Journal of Thermal Sciences</i> , 2022, 181, 107788.	4.9	18
30	Unidirectional transmission based on polarization conversion and excitation of magnetic or surface polaritons. <i>AIP Advances</i> , 2017, 7, .	1.3	17
31	Theoretical investigation of the effect of hexagonal boron nitride on perfect absorption in infrared regime. <i>Optics Communications</i> , 2018, 425, 172-175.	2.1	17
32	Near-field radiative heat transfer in hyperbolic materials. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 032002.	12.7	17
33	Polariton topological transition effects on radiative heat transfer. <i>Physical Review B</i> , 2021, 103, .	3.2	16
34	A Time Varying Ventilation and Dust Control Strategy Based on the Temporospacial Characteristics of Dust Dispersion. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 59.	2.0	15
35	Goos-Hanchen shifts in tilted uniaxial crystals. <i>Optics Communications</i> , 2018, 416, 181-184.	2.1	15
36	Amplification and modulation effect of elliptical surface polaritons on a thermal diode. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121794.	4.8	15

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37	Optical Properties of Plasma Dimer Nanoparticles for Solar Energy Absorption. <i>Nanomaterials</i> , 2021, 11, 2722.	4.1	15
38	Chiral Absorbers Based on Polarization Conversion and Excitation of Magnetic Polaritons. <i>ES Energy & Environments</i> , 2020, , .	1.1	13
39	Near-field Radiative Heat Transfer between Graphene Covered Biaxial Hyperbolic Materials. <i>ES Energy & Environments</i> , 2020, , .	1.1	13
40	Broadband tunable absorption based on phase change materials. <i>Results in Physics</i> , 2021, 20, 103704.	4.1	12
41	Near-infrared chirality of plasmonic metasurfaces with gold rectangular holes. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2527-2535.	21.1	11
42	Giant enhancement of the transverse magneto-optical Kerr effect based on the Tamm plasmon polaritons and its application in sensing. <i>Optics and Laser Technology</i> , 2022, 154, 108353.	4.6	11
43	Strong Nonreciprocal Radiation in a InAs Film by Critical Coupling with a Dielectric Grating. <i>ES Energy & Environments</i> , 2021, , .	1.1	10
44	Radiative modulator based on Moiré hybridization with elliptic plasmons. <i>Applied Physics Letters</i> , 2021, 118, 173103.	3.3	10
45	Surface and volume phonon polaritons in a uniaxial hyperbolic material: optic axis parallel versus perpendicular to the surface. <i>Optics Express</i> , 2021, 29, 39824.	3.4	10
46	The Promising Structure to Verify the Kirchhoff's Law for Nonreciprocal Materials. <i>ES Energy & Environments</i> , 2020, , .	1.1	9
47	Super-resolution reconstruction of terahertz images based on a deep-learning network with a residual channel attention mechanism. <i>Applied Optics</i> , 2022, 61, 3363.	1.8	9
48	Tunable multichannel terahertz perfect graphene absorber with Fibonacci quasiperiodic photonic crystal. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2399-2405.	21.1	9
49	Eigenvalues analysis for EM waves in anisotropic materials and its applications for unidirectional transmission and unidirectional invisibility. <i>Optics Communications</i> , 2017, 402, 507-510.	2.1	8
50	Near-Field Radiative Heat Transfer via Coupling Graphene Plasmons with Different Phonon Polaritons in the Reststrahlen Bands. <i>Engineered Science</i> , 2021, , .	2.3	8
51	Strong circular dichroism triggered by near-field perturbation. <i>Optical Materials</i> , 2021, 118, 111255.	3.6	8
52	Frequency-tunable terahertz angular selectivity based on a dielectric-graphene multilayer structure. <i>Applied Optics</i> , 2021, 60, 2811.	1.8	7
53	Terahertz composite plasmonic slabs based on double-layer metallic gratings. <i>Optics Express</i> , 2020, 28, 18212.	3.4	7
54	Optical topological transition and refraction control in crystal quartz by tilting the optical axis. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1452.	2.1	6

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55	Perfect absorption in cascaded asymmetric hyperbolic metamaterial slabs. Superlattices and Microstructures, 2018, 124, 10-16.	3.1	5
56	Broadband and high-contrast-ratio optical diodes based on polarization conversion and photonic bandgap. Journal of Optics (United Kingdom), 2018, 20, 075603.	2.2	5
57	The application of asymmetric transmission in daytime radiative cooling cannot increase the cooling power. Solar Energy Materials and Solar Cells, 2020, 215, 110662.	6.2	5
58	High extinction ratio hexagonal boron nitride polarizer. Optik, 2018, 175, 290-295.	2.9	4
59	Angular Optical Transparency Induced by Photonic Topological Transition in Hexagonal Boron Nitride. Plasmonics, 2019, 14, 973-977.	3.4	4
60	Frequency-tunable wide-angle polarization selection with a graphene-based anisotropic epsilon-near-zero metamaterial. Journal of Optics (United Kingdom), 2022, 24, 024004.	2.2	4
61	Broadband high contrast ratio optical diodes based on polarization conversion. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	3
62	The singularities in the 4×4 matrix formalisms. Optik, 2018, 168, 10-12.	2.9	3
63	Investigation on the Optical Transition of Hexagonal Boron Nitride. Plasmonics, 2018, 13, 1695-1698.	3.4	3
64	Optimization Design of a Multilayer Structure for Broadband and Direction-Selective Emissivity. ES Energy & Environments, 2021, , .	1.1	3
65	RADIATIVE COOLING BY USING A SLAB OF HEXAGONAL BORON NITRIDE. , 2018, , .		3
66	Actively tunable hybrid plasmon-phonon polariton modes in ferroelectric/graphene heterostructure systems at low-THz frequencies. Optical Materials, 2022, 131, 112623.	3.6	3
67	Tunable high-quality-factor absorption in a graphene monolayer based on quasi-bound states in the continuum. Beilstein Journal of Nanotechnology, 0, 13, 675-681.	2.8	3
68	A new approach for accurately measuring the spectral emissivity via modulating the surrounding radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108277.	2.3	1
69	Calculation of the Spectral Hemispherical Emissivity of an Arbitrarily Orientated Uniaxial Crystal. , 2018, , .		0
70	Realizing optical transparency in a continuous metal film coated with double microcavities. Optik, 2018, 172, 1100-1103.	2.9	0
71	Tunable Transmission Realized with Phase Change Materials. Plasmonics, 2021, 16, 71-76.	3.4	0
72	Observation of high contrast ratio asymmetric transmission for linearly and circularly polarized waves. Journal of Physics Communications, 2021, 5, 035011.	1.2	0

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73	KIRCHHOFF'S LAW FOR ANISOTROPIC MEDIA INCLUDING THIN FILMS. , 2019, , .		0
74	Thermal switch with multiple discrete levels. ES Energy & Environments, 2020, , .	1.1	0
75	Calculation Method for Slab and Grating Structure Made of Anisotropic Materials. Springer Theses, 2021, , 15-28.	0.1	0
76	Unidirectional Transmission of Light. Springer Theses, 2021, , 29-45.	0.1	0
77	Broadband Perfect Absorption. Springer Theses, 2021, , 47-73.	0.1	0