

Jing Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,914
citations

257450

24
h-index

276875

41
g-index

70
all docs

70
docs citations

70
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Experiment and Theory of the Broadband Absorption by a Tapered Hyperbolic Metamaterial Array. ACS Photonics, 2014, 1, 618-624.	6.6	208
2	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. Advanced Optical Materials, 2017, 5, 1700368.	7.3	141
3	Voltage- and time-dependent valence state transition in cobalt oxide catalysts during the oxygen evolution reaction. Nature Communications, 2020, 11, 1984.	12.8	120
4	Enhancing Bifunctional Electrocatalytic Activities via Metal d-Band Center Lift Induced by Oxygen Vacancy on the Subsurface of Perovskites. ACS Catalysis, 2020, 10, 4664-4670.	11.2	116
5	Toward Sensitive Room-Temperature Broadband Detection from Infrared to Terahertz with Antenna-Integrated Black Phosphorus Photoconductor. Advanced Functional Materials, 2017, 27, 1604414.	14.9	88
6	Modulated synthesis and isorecticular expansion of Th-MOFs with record high pore volume and surface area for iodine adsorption. Chemical Communications, 2020, 56, 6715-6718.	4.1	81
7	A Dual-Gate MoS ₂ Photodetector Based on Interface Coupling Effect. Small, 2020, 16, e1904369.	10.0	65
8	Enhancing Thermocatalytic Activities by Upshifting the d-Band Center of Exsolved Co-Ni-Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. Angewandte Chemie - International Edition, 2021, 60, 15912-15919.	13.8	65
9	Large-Area High Aspect Ratio Plasmonic Interference Lithography Utilizing a Single High- <i>k</i> Mode. ACS Nano, 2016, 10, 4039-4045.	14.6	58
10	Semitransparent and Flexible Mechanically Reconfigurable Electrically Small Antennas Based on Tortuous Metallic Micromesh. IEEE Transactions on Antennas and Propagation, 2017, 65, 150-158.	5.1	58
11	5f Covalency Synergistically Boosting Oxygen Evolution of UCoO ₄ Catalyst. Journal of the American Chemical Society, 2022, 144, 416-423.	13.7	48
12	Nanopatterning of Si surfaces by normal incident ion erosion: Influence of iron incorporation on surface morphology evolution. Journal of Applied Physics, 2011, 109, .	2.5	47
13	Angle Robust Reflection/Transmission Plasmonic Filters Using Ultrathin Metal Patch Array. Advanced Optical Materials, 2016, 4, 1981-1986.	7.3	44
14	Mechanism of Fe impurity motivated ion-nanopatterning of Si (100) surfaces. Physical Review B, 2010, 82, .	3.2	43
15	Large-area, lithography-free, narrow-band and highly directional thermal emitter. Nanoscale, 2019, 11, 19742-19750.	5.6	39
16	Efficient Thermal-Light Interconversions Based on Optical Topological Transition in the Metal-Dielectric Multilayered Metamaterials. Advanced Materials, 2016, 28, 3017-3023.	21.0	38
17	Transition from a spectrum filter to a polarizer in a metallic nano-slit array. Scientific Reports, 2014, 4, 3614.	3.3	35
18	Self-organized antireflecting nano-cone arrays on Si (100) induced by ion bombardment. Journal of Applied Physics, 2011, 109, .	2.5	34

#	ARTICLE	IF	CITATIONS
19	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. <i>Chemistry of Materials</i> , 2021, 33, 5233-5241.	6.7	32
20	High extinction ratio super pixel for long wavelength infrared polarization imaging detection based on plasmonic microcavity quantum well infrared photodetectors. <i>Scientific Reports</i> , 2018, 8, 15070.	3.3	29
21	In Situ/Operando Capturing Unusual Ir ⁶⁺ Facilitating Ultrafast Electrocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2104746.	14.9	29
22	Visualizing Mie Resonances in Low-Index Dielectric Nanoparticles. <i>Physical Review Letters</i> , 2018, 120, 253902.	7.8	28
23	A close to unity and all-solar-spectrum absorption by ion-sputtering induced Si nanocone arrays. <i>Optics Express</i> , 2012, 20, 22087.	3.4	25
24	White light emission and optical gains from a Si nanocrystal thin film. <i>Nanotechnology</i> , 2015, 26, 475203.	2.6	24
25	<i>In Situ</i> Exploring of the Origin of the Enhanced Oxygen Evolution Reaction Efficiency of Metal(Co/Fe)-Organic Framework Catalysts Via Postprocessing. <i>ACS Catalysis</i> , 2022, 12, 3138-3148.	11.2	24
26	Realization of Both High Absorption of Active Materials and Low Ohmic Loss in Plasmonic Cavities. <i>Advanced Optical Materials</i> , 2019, 7, 1801627.	7.3	23
27	HgCdTe mid-Infrared photo response enhanced by monolithically integrated meta-lenses. <i>Scientific Reports</i> , 2020, 10, 6372.	3.3	23
28	Circular Polarization Discrimination Enhanced by Anisotropic Media. <i>Advanced Optical Materials</i> , 2020, 8, 1901800.	7.3	20
29	Top-gated black phosphorus phototransistor for sensitive broadband detection. <i>Nanoscale</i> , 2018, 10, 5852-5858.	5.6	19
30	Enhanced polarization sensitivity by plasmonic-cavity in graphene phototransistors. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	19
31	Dynamic structural transformation induced by defects in nano-rod FeOOH during electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 602-610.	10.3	18
32	All-dielectric resonant waveguide based quantum well infrared photodetectors for hyperspectral detection. <i>Optics Communications</i> , 2018, 427, 196-201.	2.1	16
33	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO ₂ -saturated media for an aqueous Zn-CO ₂ system. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14927-14934.	10.3	16
34	Enhanced infrared photoresponse induced by symmetry breaking in a hybrid structure of graphene and plasmonic nanocavities. <i>Carbon</i> , 2020, 170, 49-58.	10.3	15
35	Tuning Electrical and Optical Properties of MoSe ₂ Transistors via Elemental Doping. <i>Advanced Materials Technologies</i> , 2020, 5, 2000307.	5.8	15
36	An electrostatic force microscope study of Si nanostructures on Si(100) as a function of post-annealing temperature and time. <i>Applied Surface Science</i> , 2007, 253, 6109-6112.	6.1	14

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37	Reconstructing a plasmonic metasurface for a broadband high-efficiency optical vortex in the visible frequency. <i>Nanoscale</i> , 2018, 10, 12378-12385.	5.6	13
38	Combined role of polarization matching and critical coupling in enhanced absorption of 2D materials based on metamaterials. <i>Optics Express</i> , 2021, 29, 9269.	3.4	13
39	Absorption enhancement in all-semiconductor plasmonic cavity integrated THz quantum well infrared photodetectors. <i>Optics Express</i> , 2020, 28, 16427.	3.4	13
40	Highly polarization-sensitive far infrared detector based on an optical antenna integrated aligned carbon nanotube film. <i>Nanoscale</i> , 2020, 12, 11808-11817.	5.6	12
41	Quantum well infrared detectors enhanced by faceted plasmonic cavities. <i>Infrared Physics and Technology</i> , 2021, 116, 103746.	2.9	12
42	Enhanced photodetector performance of black phosphorus by interfacing with chiral perovskite. <i>Nano Research</i> , 2022, 15, 7492-7497.	10.4	12
43	Investigation of the local structure of molten ThF_4 -LiF and ThF_4 -LiF-BeF ₂ mixtures by high-temperature X-ray absorption spectroscopy and molecular-dynamics simulation. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1733-1741.	2.4	11
44	Enhancing Thermocatalytic Activities by Upshifting the d-Band Center of Exsolved CoNiFe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. <i>Angewandte Chemie</i> , 2021, 133, 16048-16055.	2.0	11
45	Intersite Cooperation-Enhanced Water Splitting in Quadruple Perovskite Oxide $\text{CaCu}_3\text{Ir}_4\text{O}_{12}$. <i>Chemistry of Materials</i> , 2021, 33, 9295-9305.	6.7	11
46	Dynamically tunable ultra-narrowband perfect absorbers for the visible-to-infrared range based on a microcavity integrated graphene pair. <i>Optics Letters</i> , 2021, 46, 2236.	3.3	10
47	Nonlocal effective-medium theory for periodic multilayered metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2021, 22, 073104.	2.2	10
48	Controllable sites and high-capacity immobilization of uranium in $\text{Nd}_2\text{Zr}_2\text{O}_7$ pyrochlore. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 37-44.	2.4	8
49	A Tunable Amorphous Heteronuclear Iron and Cobalt Imidazolate Framework Analogue for Efficient Oxygen Evolution Reactions. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 702-707.	2.0	7
50	First-Principles Insight into the Effects of Intrinsic Oxygen Defects on Proton Conduction in Ruddlesden-Popper Oxides. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11503-11510.	4.6	7
51	Cut-off wavelength manipulation of pixel-level plasmonic microcavity for long wavelength infrared detection. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	6
52	Molten Salt Treated Cu Foam Catalyst for Selective Electrochemical CO ₂ Reduction Reaction. <i>ChemistrySelect</i> , 2020, 5, 11927-11933.	1.5	6
53	Cavity coupled plasmonic resonator enhanced infrared detectors. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
54	Growth of LaCoO_3 crystals in molten salt: effects of synthesis conditions. <i>CrystEngComm</i> , 2021, 23, 671-677.	2.6	5

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55	Integrated Photonic Structure Enhanced Infrared Photodetectors. <i>Advanced Photonics Research</i> , 2021, 2, 2000187.	3.6	5
56	The effect of Ehrlich-Schwoebel step-edge barrier on the formation of self-organized Si nanodots by ion-sputter erosion. <i>Applied Surface Science</i> , 2007, 253, 4497-4500.	6.1	3
57	Recovery of a generic local Hamiltonian from a steady state. <i>Physical Review A</i> , 2022, 105, .	2.5	3
58	Atomic controllable anchoring of uranium into zirconate pyrochlore with ultrahigh loading capacity. <i>Chemical Communications</i> , 2022, 58, 3469-3472.	4.1	3
59	A refined Ehrlich-Schwoebel effect on the modification of Si surface nanostructures by post ion milling. <i>Applied Surface Science</i> , 2008, 254, 2238-2243.	6.1	2
60	Transition from a color filter to a polarizer of a metallic nano-slit array. , 2013, , .		2
61	Wavelength scale terahertz spectrometer based on extraordinary transmission. <i>Applied Physics Letters</i> , 2017, 111, 063503.	3.3	2
62	Carbon Nanotube Far Infrared Detectors with High Responsivity and Superior Polarization Selectivity Based on Engineered Optical Antennas. <i>Sensors</i> , 2021, 21, 5221.	3.8	2
63	Transparent and mechanically reconfigurable small antenna based on stretchable micromesh. , 2015, , .		1
64	Nonmonotonic wavelength dependence of the polarization-sensitive infrared photoresponse of an anisotropic semimetal. <i>Nanoscale</i> , 2022, 14, 7314-7321.	5.6	1
65	Light Coupling Engineering of a Double-Pinhole Nanoresonator. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8130-8134.	0.9	0
66	Metamaterial integrated circular polarization quantum well infrared photodetectors. , 2021, , .		0
67	Narrowband tunable graphene perfect absorber based on dielectric microcavity in mid-infrared. , 2021, , .		0
68	Metamaterial optical antennas powered carbon nanotube detectors with extremely high polarization selectivity. , 2021, , .		0