

Han Ye

List of Publications by Year in descending order

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80
papers

2,351
citations

304602

22
h-index

214721

47
g-index

82
all docs

82
docs citations

82
times ranked

3063
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Plasmonic Refractive Index Sensor with Ultra-High Figure of Merit Based on the Optimized All-Metal Grating. <i>Nanoscale Research Letters</i> , 2017, 12, 1.	3.1	626
2	Prediction of Enhanced Catalytic Activity for Hydrogen Evolution Reaction in Janus Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018, 18, 3943-3949.	4.5	267
3	Fast-Charging and Ultrahigh-Capacity Zinc Metal Anode for High-Performance Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100398.	7.8	203
4	Design of a Tunable Ultra-Broadband Terahertz Absorber Based on Multiple Layers of Graphene Ribbons. <i>Nanoscale Research Letters</i> , 2018, 13, 143.	3.1	98
5	Toward a Mechanistic Understanding of Vertical Growth of van der Waals Stacked 2D Materials: A Multiscale Model and Experiments. <i>ACS Nano</i> , 2017, 11, 12780-12788.	7.3	89
6	Ultra-narrow Band Perfect Absorber and Its Application as Plasmonic Sensor in the Visible Region. <i>Nanoscale Research Letters</i> , 2017, 12, 427.	3.1	84
7	Critical Thickness and Radius for Axial Heterostructure Nanowires Using Finite-Element Method. <i>Nano Letters</i> , 2009, 9, 1921-1925.	4.5	68
8	Infrared Perfect Ultra-narrow Band Absorber as Plasmonic Sensor. <i>Nanoscale Research Letters</i> , 2016, 11, 483.	3.1	61
9	Plasmonic metamaterial for electromagnetically induced transparency analogue and ultra-high figure of merit sensor. <i>Scientific Reports</i> , 2017, 7, 45210.	1.6	53
10	Driving the Interfacial Ion-Transfer Kinetics by Mesoporous TiO ₂ Spheres for High-Performance Aqueous Zn-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8181-8190.	4.0	52
11	First-principles study of square phase MX ₂ and Janus MXY (M=Mo, W; X, Y=S, Se, Te) transition metal dichalcogenide monolayers under biaxial strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 110, 134-139.	1.3	50
12	Efficient Polarization Beam Splitter Based on All-Dielectric Metasurface in Visible Region. <i>Nanoscale Research Letters</i> , 2019, 14, 34.	3.1	38
13	Gigahertz topological valley Hall effect in nanoelectromechanical phononic crystals. <i>Nature Electronics</i> , 2022, 5, 157-163.	13.1	37
14	Numerical study of a wide-angle polarization-independent ultra-broadband efficient selective metamaterial absorber for near-ideal solar thermal energy conversion. <i>RSC Advances</i> , 2018, 8, 21054-21064.	1.7	35
15	Numerical Study of the Wide-Angle Polarization-Independent Ultra-Broadband Efficient Selective Solar Absorber in the Entire Solar Spectrum. <i>Solar Rrl</i> , 2017, 1, 1700049.	3.1	32
16	Manipulating Uniform Nucleation to Achieve Dendrite-Free Zn Anodes for Aqueous Zn-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48855-48864.	4.0	31
17	Ultra-compact broadband mode converter and optical diode based on linear rod-type photonic crystal waveguide. <i>Optics Express</i> , 2015, 23, 9673.	1.7	30
18	High-efficiency all-dielectric transmission metasurface for linearly polarized light in the visible region. <i>Photonics Research</i> , 2018, 6, 517.	3.4	30

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19	Realization of compact broadband optical diode in linear air-hole photonic crystal waveguide. <i>Optics Express</i> , 2016, 24, 24592.	1.7	25
20	Point defects and composition in hexagonal group-III nitride monolayers: A first-principles calculation. <i>Superlattices and Microstructures</i> , 2017, 112, 136-142.	1.4	25
21	Design of a broadband reciprocal optical diode in a silicon waveguide assisted by silver surface plasmonic splitter. <i>Optics Express</i> , 2017, 25, 19129.	1.7	24
22	Structural and electronic properties of 2H phase Janus transition metal dichalcogenide bilayers. <i>Superlattices and Microstructures</i> , 2019, 131, 8-14.	1.4	23
23	Enhanced Broadband Electromagnetic Absorption in Silicon Film with Photonic Crystal Surface and Random Gold Grooves Reflector. <i>Scientific Reports</i> , 2015, 5, 12794.	1.6	22
24	Multilayer Graphene-Based Thermal Rectifier with Interlayer Gradient Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45180-45188.	4.0	21
25	Thermal characteristics of graphene nanosheet with graphene domains of varying morphologies. <i>Computational Materials Science</i> , 2017, 138, 192-198.	1.4	17
26	Ultra-broadband large-angle beam splitter based on a homogeneous metasurface at visible wavelengths. <i>Optics Express</i> , 2020, 28, 32226.	1.7	17
27	The optimal structure of two dimensional photonic crystals with the large absolute band gap. <i>Optics Express</i> , 2011, 19, 19346.	1.7	16
28	Analysis of Raman scattering from inclined GeSn/Ge dual-nanowire heterostructure on Ge(111) substrate. <i>Applied Surface Science</i> , 2019, 463, 581-586.	3.1	14
29	Numerical Study of an Efficient Solar Absorber Consisting of Metal Nanoparticles. <i>Nanoscale Research Letters</i> , 2017, 12, 601.	3.1	12
30	Design of Compact TE-Polarized Mode-Order Converter in Silicon Waveguide With High Refractive Index Material. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	1.0	12
31	Microstructure dependent chemo-mechanical behavior of amorphous Si anodes for Li-ion batteries upon delithiation. <i>Journal of Power Sources</i> , 2022, 520, 230803.	4.0	11
32	Design of plasmonic solar cells combining dual interface nanostructure for broadband absorption enhancement. <i>Optics Communications</i> , 2014, 333, 213-218.	1.0	10
33	Intrinsic-strain-induced curling of free-standing two-dimensional Janus MoSSe quantum dots. <i>Applied Surface Science</i> , 2020, 519, 146251.	3.1	10
34	High-Efficiency, Dual-Band Beam Splitter Based on an All-Dielectric Quasi-Continuous Metasurface. <i>Materials</i> , 2021, 14, 3184.	1.3	10
35	Structural and electronic properties of hydrogenated GaBi and InBi honeycomb monolayers with point defects. <i>RSC Advances</i> , 2018, 8, 7022-7028.	1.7	9
36	Structural and electronic properties of point defects in Haeckelite GaN monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 289-293.	1.3	9

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37	Broadband Ultrathin Transmission Quarter Waveplate with Rectangular Hole Array Based on Plasmonic Resonances. <i>Nanoscale Research Letters</i> , 2019, 14, 384.	3.1	9
38	Lattice-distorted lithiation behavior of a square phase Janus MoSSe monolayer for electrode applications. <i>Nanoscale Advances</i> , 2021, 3, 2902-2910.	2.2	9
39	Tuning the Fano resonances in a single defect nanocavity coupled with a plasmonic waveguide for sensing applications. <i>Modern Physics Letters B</i> , 2015, 29, 1550218.	1.0	8
40	Low-photon-number optical switch and AND/OR logic gates based on quantum dot-bimodal cavity coupling system. <i>Scientific Reports</i> , 2016, 6, 19001.	1.6	8
41	Broadband Mid-infrared Dual-Band Double-Negative Metamaterial: Realized Using a Simple Geometry. <i>Plasmonics</i> , 2018, 13, 1287-1295.	1.8	8
42	Broadband anomalous reflective metasurface for complementary conversion of arbitrary incident polarization angles. <i>Optics Express</i> , 2021, 29, 38404.	1.7	8
43	Waveguide-integrated digital metamaterials for wavelength, mode and polarization demultiplexing. <i>Optical Materials</i> , 2021, 122, 111770.	1.7	8
44	Plastic relaxation of mixed dislocation in axial nanowire heterostructures using Peachâ€Koehler approach. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 445-448.	1.2	7
45	Design of a broadband reciprocal optical diode in multimode silicon waveguide by partial depth etching. <i>Optics Communications</i> , 2018, 418, 88-92.	1.0	7
46	Design of Multifunctional Tunable Metasurface Assisted by Elastic Substrate. <i>Nanomaterials</i> , 2022, 12, 2387.	1.9	7
47	Unconventional photon blockade in a photonic molecule containing a quantum dot. <i>Superlattices and Microstructures</i> , 2017, 105, 81-89.	1.4	6
48	Physical Information-Embedded Deep Learning for Forward Prediction and Inverse Design of Nanophotonic Devices. <i>Journal of Lightwave Technology</i> , 2021, 39, 6498-6508.	2.7	6
49	Topology design of digital metamaterials for ultra-compact integrated photonic devices based on mode manipulation. <i>Nanoscale Advances</i> , 2021, 3, 4579-4588.	2.2	6
50	Efficient light coupling between conventional silicon photonic waveguides and quantum valley-Hall topological interfaces. <i>Optics Express</i> , 2022, 30, 2517.	1.7	6
51	Design of nonvolatile and efficient Polarization-Rotating optical switch with phase change material. <i>Optics and Laser Technology</i> , 2022, 151, 108065.	2.2	6
52	Enhancing kinetic and electrochemical performance of layered MoS2 cathodes with interlayer expansion for Mg-ion batteries. <i>Journal of Power Sources</i> , 2022, 542, 231722.	4.0	6
53	Dual interface gratings design for absorption enhancement in thin crystalline silicon solar cells. <i>Optics Communications</i> , 2017, 399, 62-67.	1.0	5
54	SISSO-assisted prediction and design of mechanical properties of porous graphene with a uniform nanopore array. <i>Nanoscale Advances</i> , 2022, 4, 1455-1463.	2.2	5

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55	Ultra-Compact Waveguide-Integrated TE-Mode Converters With High Mode Purity by Designing Ge/Si Patterns. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	1.0	4
56	Direct Integration of Few-Layer MoS ₂ at Plasmonic Au Nanostructure by Substrate-Diffusion Delivered Mo. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902093.	1.9	4
57	Catalytic activity for hydrogen evolution reaction in square phase Janus MoSSe monolayer: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114485.	1.3	4
58	Plastic relaxation and coherency limit in uncapped multi-faceted InAs/GaAs(001) nanoislands. <i>Journal of Applied Physics</i> , 2013, 114, 093504.	1.1	3
59	Electronic structures of GeSi nanoislands grown on pit-patterned Si(001) substrate. <i>AIP Advances</i> , 2014, 4, .	0.6	3
60	The electronic properties of bare and alkali metal adsorbed two-dimensional GeSi alloy sheet. <i>Superlattices and Microstructures</i> , 2016, 97, 250-257.	1.4	3
61	Sub-Poissonian photon statistics in quantum dot-metal nanoparticles hybrid system with gain media. <i>Scientific Reports</i> , 2019, 9, 10088.	1.6	3
62	Unveiling the mechanism of structure-dependent thermal transport behavior in self-folded graphene film: a multiscale study. <i>Nanoscale</i> , 2020, 12, 24138-24145.	2.8	3
63	Armchair Janus MoSSe Nanoribbon with Spontaneous Curling: A First-Principles Study. <i>Nanomaterials</i> , 2021, 11, 3442.	1.9	3
64	Focal Shift of Nano-Optical Lens Affected by Periodic Resonance With Substrate. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	1.0	2
65	Simultaneous All-Optical or and xor Logic Gates Based on the Bimodal Photonic Cavity Containing a Quantum Dot. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	1.0	2
66	Optically Active Plasmonic Metasurfaces based on the Hybridization of In-Plane Coupling and Out-of-Plane Coupling. <i>Nanoscale Research Letters</i> , 2018, 13, 144.	3.1	2
67	Strength nature of two-dimensional woven nanofabrics under biaxial tension. <i>International Journal of Damage Mechanics</i> , 2019, 28, 367-379.	2.4	2
68	Wavelength Controllable Forward Prediction and Inverse Design of Nanophotonic Devices Using Deep Learning. , 2020, , .		2
69	Free space continuous-variable quantum key distribution with practical links. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3690.	0.9	2
70	Stress-Dependent Chemo-Mechanical Performance of Amorphous Si Anodes for Li-Ion Batteries upon Lithiation. <i>ACS Applied Energy Materials</i> , 2021, 4, 14718-14726.	2.5	2
71	Elastic strain relaxation of GeSi nanoislands grown on pit-patterned Si(001) substrates. <i>Superlattices and Microstructures</i> , 2016, 100, 185-190.	1.4	1
72	Electronic structures of uncapped In(Ga)As nanoislands grown on pit-patterned GaAs(001) substrate. <i>Superlattices and Microstructures</i> , 2017, 109, 99-106.	1.4	1

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73	Numerical Investigations of a Silicon Photonic TE-Pass Polarizer Consisting of Alternating Copper/Silicon Nitride Layers. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	1
74	Influences of composition on Raman scattering from GeSi alloy core-shell nanowire heterostructures. Superlattices and Microstructures, 2017, 110, 82-89.	1.4	1
75	High-Contrast and Compact Integrated Wavelength Diplexer Based on Subwavelength Grating Anisotropic Metamaterial for 1550/2000Ånm. IEEE Photonics Journal, 2021, 13, 1-10.	1.0	1
76	Efficient, compact, and robust GeOI-based photonic polarization rotator in the 2 μm waveband. Optics Communications, 2021, 497, 127145.	1.0	1
77	Universal design rules for 2π phase trapezoidal metasurface based on Fabry-Pérot resonance in visible and near-infrared. Optical Engineering, 2021, 60, .	0.5	1
78	Enhancing the brightness of quantum dot light emitting diodes by multilayer hetero-structures. , 2015, , .		0
79	Regulable photon bunching and anti-bunching in quantum dot-bimodal cavity coupling system. , 2017, , .		0
80	Tunable single photon and two-photon emission in a four-level quantum dot-bimodal cavity system. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 234-238.	1.3	0