

Han Ye

List of Publications by Year in descending order

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80
papers

2,351
citations

304602

22
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214721

47
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82
all docs

82
docs citations

82
times ranked

3063
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Efficient light coupling between conventional silicon photonic waveguides and quantum valley-Hall topological interfaces. <i>Optics Express</i> , 2022, 30, 2517.	1.7	6
3	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
4	Gigahertz topological valley Hall effect in nanoelectromechanical phononic crystals. <i>Nature Electronics</i> , 2022, 5, 157-163.	13.1	37
5	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
6	Enhancing kinetic and electrochemical performance of layered MoS ₂ cathodes with interlayer expansion for Mg-ion batteries. <i>Journal of Power Sources</i> , 2022, 542, 231722.	4.0	6
7	Design of Multifunctional Tunable Metasurface Assisted by Elastic Substrate. <i>Nanomaterials</i> , 2022, 12, 2387.	1.9	7
8	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
9	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
10	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
11	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
12	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
13	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
14	High-Contrast and Compact Integrated Wavelength Diplexer Based on Subwavelength Grating Anisotropic Metamaterial for 1550/2000Ånm. <i>IEEE Photonics Journal</i> , 2021, 13, 1-10.	1.0	1
15	High-Efficiency, Dual-Band Beam Splitter Based on an All-Dielectric Quasi-Continuous Metasurface. <i>Materials</i> , 2021, 14, 3184.	1.3	10
16	Efficient, compact, and robust GeOI-based photonic polarization rotator in the 2 \times m waveband. <i>Optics Communications</i> , 2021, 497, 127145.	1.0	1
17	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
18	Broadband anomalous reflective metasurface for complementary conversion of arbitrary incident polarization angles. <i>Optics Express</i> , 2021, 29, 38404.	1.7	8

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19	Waveguide-integrated digital metamaterials for wavelength, mode and polarization demultiplexing. <i>Optical Materials</i> , 2021, 122, 111770.	1.7	8
20	Universal design rules for 2D phase trapezoidal metasurface based on Fabry-Pérot resonance in visible and near-infrared. <i>Optical Engineering</i> , 2021, 60, .	0.5	1
21	Armchair Janus MoSSe Nanoribbon with Spontaneous Curling: A First-Principles Study. <i>Nanomaterials</i> , 2021, 11, 3442.	1.9	3
22	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
23	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
24	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
25	Intrinsic-strain-induced curling of free-standing two-dimensional Janus MoSSe quantum dots. <i>Applied Surface Science</i> , 2020, 519, 146251.	3.1	10
26	Wavelength Controllable Forward Prediction and Inverse Design of Nanophotonic Devices Using Deep Learning. , 2020, , .		2
27	Ultra-broadband large-angle beam splitter based on a homogeneous metasurface at visible wavelengths. <i>Optics Express</i> , 2020, 28, 32226.	1.7	17
28	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
29	Sub-Poissonian photon statistics in quantum dot-metal nanoparticles hybrid system with gain media. <i>Scientific Reports</i> , 2019, 9, 10088.	1.6	3
30	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
31	Efficient Polarization Beam Splitter Based on All-Dielectric Metasurface in Visible Region. <i>Nanoscale Research Letters</i> , 2019, 14, 34.	3.1	38
32	Structural and electronic properties of 2H phase Janus transition metal dichalcogenide bilayers. <i>Superlattices and Microstructures</i> , 2019, 131, 8-14.	1.4	23
33	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
34	Multilayer Graphene-Based Thermal Rectifier with Interlayer Gradient Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45180-45188.	4.0	21
35	Broadband Ultrathin Transmission Quarter Waveplate with Rectangular Hole Array Based on Plasmonic Resonances. <i>Nanoscale Research Letters</i> , 2019, 14, 384.	3.1	9
36	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

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37	Strength nature of two-dimensional woven nanofabrics under biaxial tension. <i>International Journal of Damage Mechanics</i> , 2019, 28, 367-379.	2.4	2
38	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
39	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
40	Broadband Mid-infrared Dual-Band Double-Negative Metamaterial: Realized Using a Simple Geometry. <i>Plasmonics</i> , 2018, 13, 1287-1295.	1.8	8
41	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
42	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
43	High-efficiency all-dielectric transmission metasurface for linearly polarized light in the visible region. <i>Photonics Research</i> , 2018, 6, 517.	3.4	30
44	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
45	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
46	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
47	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
48	Tunable single photon and two-photon emission in a four-level quantum dot-bimodal cavity system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 234-238.	1.3	0
49	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
50	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
51	Dual interface gratings design for absorption enhancement in thin crystalline silicon solar cells. <i>Optics Communications</i> , 2017, 399, 62-67.	1.0	5
52	Numerical Investigations of a Silicon Photonic TE-Pass Polarizer Consisting of Alternating Copper/Silicon Nitride Layers. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	1
53	Plasmonic metamaterial for electromagnetically induced transparency analogue and ultra-high figure of merit sensor. <i>Scientific Reports</i> , 2017, 7, 45210.	1.6	53
54	Unconventional photon blockade in a photonic molecule containing a quantum dot. <i>Superlattices and Microstructures</i> , 2017, 105, 81-89.	1.4	6

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55	Influences of composition on Raman scattering from GeSi alloy core-shell nanowire heterostructures. Superlattices and Microstructures, 2017, 110, 82-89.	1.4	1
56	Point defects and composition in hexagonal group-III nitride monolayers: A first-principles calculation. Superlattices and Microstructures, 2017, 112, 136-142.	1.4	25
57	Toward a Mechanistic Understanding of Vertical Growth of van der Waals Stacked 2D Materials: A Multiscale Model and Experiments. ACS Nano, 2017, 11, 12780-12788.	7.3	89
58	Numerical Study of the Wide-angle Polarization-independent Ultra-broadband Efficient Selective Solar Absorber in the Entire Solar Spectrum. Solar Rrl, 2017, 1, 1700049.	3.1	32
59	Thermal characteristics of graphene nanosheet with graphene domains of varying morphologies. Computational Materials Science, 2017, 138, 192-198.	1.4	17
60	Ultra-narrow Band Perfect Absorber and Its Application as Plasmonic Sensor in the Visible Region. Nanoscale Research Letters, 2017, 12, 427.	3.1	84
61	Regulable photon bunching and anti-bunching in quantum dot-bimodal cavity coupling system. , 2017, , .		0
62	Design of a broadband reciprocal optical diode in a silicon waveguide assisted by silver surface plasmonic splitter. Optics Express, 2017, 25, 19129.	1.7	24
63	Numerical Study of an Efficient Solar Absorber Consisting of Metal Nanoparticles. Nanoscale Research Letters, 2017, 12, 601.	3.1	12
64	Realization of compact broadband optical diode in linear air-hole photonic crystal waveguide. Optics Express, 2016, 24, 24592.	1.7	25
65	Focal Shift of Nano-Optical Lens Affected by Periodic Resonance With Substrate. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	2
66	Low-photon-number optical switch and AND/OR logic gates based on quantum dot-bimodal cavity coupling system. Scientific Reports, 2016, 6, 19001.	1.6	8
67	The electronic properties of bare and alkali metal adsorbed two-dimensional GeSi alloy sheet. Superlattices and Microstructures, 2016, 97, 250-257.	1.4	3
68	Elastic strain relaxation of GeSi nanoislands grown on pit-patterned Si(001) substrates. Superlattices and Microstructures, 2016, 100, 185-190.	1.4	1
69	Infrared Perfect Ultra-narrow Band Absorber as Plasmonic Sensor. Nanoscale Research Letters, 2016, 11, 483.	3.1	61
70	Simultaneous All-Optical or and xor Logic Gates Based on the Bimodal Photonic Cavity Containing a Quantum Dot. IEEE Photonics Journal, 2016, 8, 1-10.	1.0	2
71	Enhanced Broadband Electromagnetic Absorption in Silicon Film with Photonic Crystal Surface and Random Gold Grooves Reflector. Scientific Reports, 2015, 5, 12794.	1.6	22
72	Enhancing the brightness of quantum dot light emitting diodes by multilayer hetero-structures. , 2015, , .		0

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73	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
74	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
75	Plastic relaxation of mixed dislocation in axial nanowire heterostructures using Peachâ€œKoehler approach. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 445-448.	1.2	7
76	Electronic structures of GeSi nanoislands grown on pit-patterned Si(001) substrate. <i>AIP Advances</i> , 2014, 4, .	0.6	3
77	Design of plasmonic solar cells combining dual interface nanostructure for broadband absorption enhancement. <i>Optics Communications</i> , 2014, 333, 213-218.	1.0	10
78	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
79	The optimal structure of two dimensional photonic crystals with the large absolute band gap. <i>Optics Express</i> , 2011, 19, 19346.	1.7	16
80	Critical Thickness and Radius for Axial Heterostructure Nanowires Using Finite-Element Method. <i>Nano Letters</i> , 2009, 9, 1921-1925.	4.5	68