Jie Yao

List of Publications by Year in descending order

61 papers	6,038 citations	159525 30 h-index	149623 56 g-index
63 all docs	63 docs citations	63 times ranked	10246 citing authors

#	Article	IF	Citations
1	Room-temperature skyrmion lattice in a layered magnet (Fe _{0.5} Co _{0.5}) ₅ GeTe ₂. Science Advances, 2022, 8, eabm7103.	4.7	55
2	A room temperature polar magnetic metal. Physical Review Materials, 2022, 6, .	0.9	21
3	Controllable Edge Epitaxy of Helical GeSe/GeS Heterostructures. Nano Letters, 2022, 22, 5086-5093.	4.5	8
4	Pervasive beyond Room-Temperature Ferromagnetism in a Doped van der Waals Magnet. Physical Review Letters, 2022, 128, .	2.9	42
5	Phase change materials in photonic devices. Journal of Applied Physics, 2021, 129, .	1.1	43
6	Topotactic Growth of Free-Standing Two-Dimensional Perovskite Niobates with Low Symmetry Phase. Nano Letters, 2021, 21, 4700-4707.	4.5	4
7	Flat Bands in Magic-Angle Bilayer Photonic Crystals at Small Twists. Physical Review Letters, 2021, 126, 223601.	2.9	69
8	Tunable room-temperature ferromagnetism in Co-doped two-dimensional van der Waals ZnO. Nature Communications, 2021, 12, 3952.	5.8	54
9	Bound States in the Continuum on a Silicon Chip with Dynamic Tuning. Physical Review Applied, 2021, 16, .	1.5	5
10	Orbital Angular Momentum from Selfâ€Assembled Concentric Nanoparticle Rings. Advanced Materials, 2021, 33, 2103563.	11.1	2
11	Temperature-adaptive radiative coating for all-season household thermal regulation. Science, 2021, 374, 1504-1509.	6.0	251
12	Hydroxyl-Assisted Phosphorene Stabilization with Robust Device Performances. Nano Letters, 2020, 20, 81-87.	4.5	21
13	Chemically Modulating the Twist Rate of Helical van der Waals Crystals. Chemistry of Materials, 2020, 32, 299-307.	3.2	5
14	Ultrafine Co:FeS₂/CoS₂ Heterostructure Nanowires for Highly Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 514-520.	2.5	30
15	Solution-Based Synthesis of Layered Two-Dimensional Oxides as Broadband Emitters. ACS Nano, 2020, 14, 15544-15551.	7.3	5
16	A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metalâ€“Insulator Transition. Advanced Materials, 2020, 32, e1907071.	11.1	75
17	Growth and Properties of Dislocated Two-dimensional Layered Materials. MRS Advances, 2020, 5, 3437-3452.	0.5	3
18	Itinerant ferromagnetism in van der Waals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mrow><mml:mn>5</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></ crystals above room temperature. Physical Review B, 2020, 102, .	1.1	74

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19	Millikelvin-resolved ambient thermography. Science Advances, 2020, 6, .	4.7	26
20	Tunable valleytronics with symmetry-retaining high polarization degree in SnSxSe1â^'x model system. Applied Physics Letters, 2020, 116, 061105.	1.5	6
21	Fast Reversible Phase Change Silicon for Visible Active Photonics. Advanced Functional Materials, 2020, 30, 1910784.	7.8	19
22	Tunable Second Harmonic Generation in Twisted Bilayer Graphene. Matter, 2020, 3, 1361-1376.	5.0	40
23	Helical van der Waals crystals with discretized Eshelby twist. Nature, 2019, 570, 358-362.	13.7	91
24	GeO₂ Encapsulated Ge Nanostructure with Enhanced Lithiumâ€Storage Properties. Advanced Functional Materials, 2019, 29, 1807946.	7.8	53
25	Three-dimensional Architecture Enabled by Strained Two-dimensional Material Heterojunction. Nano Letters, 2018, 18, 1819-1825.	4.5	24
26	A 0.2 V Microâ€Electromechanical Switch Enabled by a Phase Transition. Small, 2018, 14, e1703621.	5.2	23
27	Accessing valley degree of freedom in bulk Tin(II) sulfide at room temperature. Nature Communications, 2018, 9, 1455.	5.8	56
28	Multifunctional Microelectro-Opto-mechanical Platform Based on Phase-Transition Materials. Nano Letters, 2018, 18, 1637-1643.	4.5	16
29	Reconfigurable Photonic Platforms: A Lithographyâ€Free and Fieldâ€Programmable Photonic Metacanvas (Adv. Mater. 5/2018). Advanced Materials, 2018, 30, 1870034.	11.1	4
30	High-efficiency water-loaded microwave antenna in ultra-high-frequency band. Applied Physics Letters, 2018, 112, 113501.	1.5	8
31	A Lithographyâ€Free and Fieldâ€Programmable Photonic Metacanvas. Advanced Materials, 2018, 30, 1703878.	11.1	75
32	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. ACS Nano, 2018, 12, 7554-7561.	7.3	23
33	Allâ€Silicon Broadband Ultraviolet Metasurfaces. Advanced Materials, 2018, 30, e1802632.	11.1	51
34	Structureâ€“Property Relationship of Low-Dimensional Layered GaSe_xTe_{1â€“x} Alloys. Chemistry of Materials, 2018, 30, 4226-4232.	3.2	16
35	Alloying effect on brightâ€“dark exciton states in ternary monolayer Mo_xW_{1â€“x}Se₂. New Journal of Physics, 2017, 19, 073018.	1.2	16
36	All-solid-state tunable Bragg filters based on a phase transition material. , 2017, , .		0

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37	Tunable Bragg filters with a phase transition material defect layer. Optics Express, 2016, 24, 20365.	1.7	19
38	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metalâ€“Insulator Phase Transition in Active Substrates. Small, 2016, 12, 3976-3984.	5.2	30
39	Excitation and propagation of surface plasmon polaritons on a non-structured surface with a permittivity gradient. Light: Science and Applications, 2016, 5, e16179-e16179.	7.7	27
40	Stress compensation for arbitrary curvature control in vanadium dioxide phase transition actuators. Applied Physics Letters, 2016, 109, .	1.5	19
41	2D Metals: 2D Metals by Repeated Size Reduction (Adv. Mater. 37/2016). Advanced Materials, 2016, 28, 8169-8169.	11.1	1
42	2D Metals by Repeated Size Reduction. Advanced Materials, 2016, 28, 8170-8176.	11.1	68
43	Self-Assembled, Nanostructured, Tunable Metamaterials via Spinodal Decomposition. ACS Nano, 2016, 10, 10237-10244.	7.3	47
44	Dynamic Control of Optical Response in Layered Metal Chalcogenide Nanoplates. Nano Letters, 2016, 16, 488-496.	4.5	26
45	Filling the Gaps between Graphene Oxide: A General Strategy toward Nanolayered Oxides. Advanced Functional Materials, 2015, 25, 5683-5690.	7.8	31
46	Optical transmission enhacement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. Nature Communications, 2014, 5, 5670.	5.8	99
47	Static Electricity Powered Copper Oxide Nanowire Microbicidal Electroporation for Water Disinfection. Nano Letters, 2014, 14, 5603-5608.	4.5	118
48	Transparent and conductive paper from nanocellulose fibers. Energy and Environmental Science, 2013, 6, 513-518.	15.6	431
49	Synthesis of MoS₂ and MoSe₂ Films with Vertically Aligned Layers. Nano Letters, 2013, 13, 1341-1347.	4.5	2,036
50	Three-dimensional Indefinite Metamaterial Nanocavities with Anomalous Scaling Law. , 2013, , .		0
51	Broadband light management using low-Q whispering gallery modes in spherical nanoshells. Nature Communications, 2012, 3, 664.	5.8	203
52	Experimental realization of three-dimensional indefinite cavities at the nanoscale with anomalous scaling laws. Nature Photonics, 2012, 6, 450-454.	15.6	316
53	Design, fabrication and characterization of indefinite metamaterials of nanowires. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3434-3446.	1.6	41
54	Three-dimensional nanometer-scale optical cavities of indefinite medium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11327-11331.	3.3	126

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55	Application of Anisotropic Metamaerials: Imaging Visible Light with Slab Lens. , 2010, , .		0
56	Plasmonic Fabry-PÃ©rot Nanocavity. Nano Letters, 2009, 9, 3489-3493.	4.5	148
57	Imaging visible light using anisotropic metamaterial slab lens. Optics Express, 2009, 17, 22380.	1.7	44
58	Broad Band Two-Dimensional Manipulation of Surface Plasmons. Nano Letters, 2009, 9, 462-466.	4.5	93
59	Bulky Nanowire Metamaterials for Negative Refraction at Broadband Frequencies from Visible to NIR. , 2009, , .		1
60	Optical Negative Refraction in Bulk Metamaterials of Nanowires. Science, 2008, 321, 930-930.	6.0	798
61	Surface plasmon beats formed on thin metal films. , 2006, 6323, 215.		2