

Jing Wu

List of Publications by Year in descending order

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79
papers

15,656
citations

109321

35
h-index

71685

76
g-index

80
all docs

80
docs citations

80
times ranked

43236
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Thymoquinone on radiation enteritis in mice. <i>Scientific Reports</i> , 2018, 8, 1-7.	3.3	10,654
2	Length-dependent thermal conductivity in suspended single-layer graphene. <i>Nature Communications</i> , 2014, 5, 3689.	12.8	735
3	Topological polaritons and photonic magic angles in twisted \pm -MoO ₃ bilayers. <i>Nature</i> , 2020, 582, 209-213.	27.8	413
4	Surface transfer doping induced effective modulation on ambipolar characteristics of few-layer black phosphorus. <i>Nature Communications</i> , 2015, 6, 6485.	12.8	335
5	Vapour-liquid-solid growth of monolayer MoS ₂ nanoribbons. <i>Nature Materials</i> , 2018, 17, 535-542.	27.5	286
6	Coherent steering of nonlinear chiral valley photons with a synthetic Au-WS ₂ metasurface. <i>Nature Photonics</i> , 2019, 13, 467-472.	31.4	236
7	Two-dimensional multibit optoelectronic memory with broadband spectrum distinction. <i>Nature Communications</i> , 2018, 9, 2966.	12.8	211
8	Large Thermoelectricity via Variable Range Hopping in Chemical Vapor Deposition Grown Single-Layer MoS ₂ . <i>Nano Letters</i> , 2014, 14, 2730-2734.	9.1	210
9	Colossal Ultraviolet Photoresponsivity of Few-Layer Black Phosphorus. <i>ACS Nano</i> , 2015, 9, 8070-8077.	14.6	204
10	Graphene-Ferroelectric Hybrid Structure for Flexible Transparent Electrodes. <i>ACS Nano</i> , 2012, 6, 3935-3942.	14.6	167
11	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013, 6, 200-207.	10.4	140
12	Recent developments in 2D transition metal dichalcogenides: phase transition and applications of the (quasi-)metallic phases. <i>Chemical Society Reviews</i> , 2021, 50, 10087-10115.	38.1	135
13	Bandgap Engineering of Phosphorene by Laser Oxidation toward Functional 2D Materials. <i>ACS Nano</i> , 2015, 9, 10411-10421.	14.6	126
14	Surface Functionalization of Black Phosphorus via Potassium toward High-Performance Complementary Devices. <i>Nano Letters</i> , 2017, 17, 4122-4129.	9.1	117
15	Multidimensional nanoscopic chiroptics. <i>Nature Reviews Physics</i> , 2022, 4, 113-124.	26.6	87
16	Thermal Conductance of the 2D MoS ₂ /h-BN and graphene/h-BN Interfaces. <i>Scientific Reports</i> , 2017, 7, 43886.	3.3	79
17	Perspectives on Thermoelectricity in Layered and 2D Materials. <i>Advanced Electronic Materials</i> , 2018, 4, 1800248.	5.1	77
18	Wafer-scale and deterministic patterned growth of monolayer MoS ₂ via vapor-liquid-solid method. <i>Nanoscale</i> , 2019, 11, 16122-16129.	5.6	76

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19	Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Two-Dimensional Electronics. <i>Advanced Science</i> , 2021, 8, e2004438.	11.2	66
20	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18880-18890.	10.3	61
21	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. <i>Materials Today Physics</i> , 2020, 14, 100239.	6.0	61
22	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS ₂ using electron beam self-heating technique. <i>Science Bulletin</i> , 2018, 63, 452-458.	9.0	54
23	Improving carrier mobility in two-dimensional semiconductors with rippled materials. <i>Nature Electronics</i> , 2022, 5, 489-496.	26.0	52
24	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. <i>Advanced Materials</i> , 2018, 30, e1804928.	21.0	50
25	Low-Symmetry PdSe ₂ for High Performance Thermoelectric Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2004896.	14.9	49
26	Monolayer W _x Mo _{1-x} S ₂ Grown by Atmospheric Pressure Chemical Vapor Deposition: Bandgap Engineering and Field Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1606469.	14.9	48
27	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi ₂ O ₂ Se for High-Performance Thermoelectrics. <i>Advanced Materials</i> , 2021, 33, e2004786.	21.0	48
28	Ultralow Thermal Conductivity of Single-Crystalline Porous Silicon Nanowires. <i>Advanced Functional Materials</i> , 2017, 27, 1702824.	14.9	47
29	Oxygen induced strong mobility modulation in few-layer black phosphorus. <i>2D Materials</i> , 2017, 4, 021007.	4.4	45
30	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018, 30, e1801931.	21.0	43
31	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , 2020, 2020, 9085782.	5.7	40
32	Enhanced Photoresponse from Phosphorene-Phosphorene ₂ S ₃ Junction Fashioned by Focused Laser Micromachining. <i>Advanced Materials</i> , 2016, 28, 4090-4096.	21.0	38
33	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23335-23344.	10.3	38
34	Selective Engineering of Chalcogen Defects in MoS ₂ by Low-Energy Helium Plasma. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24404-24411.	8.0	37
35	Black Phosphorus Based Field Effect Transistors with Simultaneously Achieved Near Ideal Subthreshold Swing and High Hole Mobility at Room Temperature. <i>Scientific Reports</i> , 2016, 6, 24920.	3.3	35
36	Realizing zT Values of 2.0 in Cubic GeTe. <i>ChemNanoMat</i> , 2021, 7, 476-482.	2.8	35

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37	Large enhancement of thermoelectric performance in MoS ₂ / h-BN heterostructure due to vacancy-induced band hybridization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13929-13936.	7.1	34
38	Effects Of Structural Phase Transition On Thermoelectric Performance in Lithium-Intercalated Molybdenum Disulfide (Li _x MoS ₂). ACS Applied Materials & Interfaces, 2019, 11, 12184-12189.	8.0	31
39	A wafer-scale graphene and ferroelectric multilayer for flexible and fast-switched modulation applications. Nanoscale, 2015, 7, 14730-14737.	5.6	26
40	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. Advanced Materials, 2022, 34, e2110518.	21.0	25
41	Growth and thermal properties of various In ₂ Se ₃ nanostructures prepared by single step PVD technique. Journal of Alloys and Compounds, 2019, 773, 698-705.	5.5	24
42	Suspended MoS ₂ Photodetector Using Patterned Sapphire Substrate. Small, 2021, 17, e2100246.	10.0	24
43	Designing good compatibility factor in segmented Bi _{0.5} Sb _{1.5} Te ₃ “ GeTe thermoelectrics for high power conversion efficiency. Nano Energy, 2022, 96, 107147.	16.0	24
44	MoS ₂ /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness. Advanced Materials, 2020, 32, e2002704.	21.0	23
45	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. ACS Applied Materials & Interfaces, 2021, 13, 8518-8527.	8.0	23
46	High-performance monolayer MoS ₂ photodetector enabled by oxide stress liner using scalable chemical vapor growth method. Nanophotonics, 2020, 9, 1981-1991.	6.0	21
47	Integrating recyclable polymers into thermoelectric devices for green electronics. Journal of Materials Chemistry A, 2022, 10, 19787-19796.	10.3	21
48	Flexible elemental thermoelectrics with ultra-high power density. Materials Today Energy, 2022, 25, 100964.	4.7	20
49	Low temperature carrier transport study of monolayer MoS ₂ field effect transistors prepared by chemical vapor deposition under an atmospheric pressure. Journal of Applied Physics, 2015, 118, .	2.5	19
50	Atomic Layer Deposition of High-Quality Al ₂ O ₃ Thin Films on MoS ₂ with Water Plasma Treatment. ACS Applied Materials & Interfaces, 2019, 11, 35438-35443.	8.0	15
51	AlGaIn/GaN Metal-Oxide-Semiconductor High-Electron-Mobility Transistor with Polarized P(VDF-TrFE) Ferroelectric Polymer Gating. Scientific Reports, 2015, 5, 14092.	3.3	14
52	Large-scale Transparent Molybdenum Disulfide Plasmonic Photodetector Using Split Bull Eye Structure. Advanced Optical Materials, 2018, 6, 1800461.	7.3	14
53	Studying thermal transport in suspended monolayer molybdenum disulfide prepared by a nano-manipulator-assisted transfer method. Nanotechnology, 2020, 31, 225702.	2.6	14
54	Modification of thermal transport in few-layer MoS ₂ by atomic-level defect engineering. Nanoscale, 2021, 13, 11561-11567.	5.6	12

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55	Effect of stress layer on thermal properties of SnSe ₂ few layers. Journal of Alloys and Compounds, 2019, 783, 226-231.	5.5	11
56	Band alignment of ZnO/multilayer MoS ₂ interface determined by x-ray photoelectron spectroscopy. Applied Physics Letters, 2016, 109, .	3.3	10
57	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. ACS Nano, 2019, 13, 14529-14539.	14.6	10
58	Employing a Bifunctional Molybdate Precursor To Grow the Highly Crystalline MoS ₂ for High-Performance Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 14239-14248.	8.0	10
59	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. Advanced Materials, 2020, 32, 2000153.	21.0	10
60	Enhanced photoresponse of highly air-stable palladium diselenide by thickness engineering. Nanophotonics, 2020, 9, 2467-2474.	6.0	10
61	Gate voltage and temperature dependent Ti-graphene junction resistance toward straightforward p-n junction formation. Journal of Applied Physics, 2018, 124, .	2.5	8
62	Effect of substrate angle on the growth of MoS ₂ vertical nanosheets using a one-step chemical vapor deposition. Materials Research Express, 2018, 5, 075026.	1.6	7
63	Probing thermal transport across amorphous region embedded in a single crystalline silicon nanowire. Scientific Reports, 2020, 10, 821.	3.3	7
64	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. Advanced Science, 2019, 6, 1900446.	11.2	6
65	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. Advanced Science, 2020, 7, 1902726.	11.2	6
66	Fatty Acid-Based Coacervates as a Membrane-free Protocell Model. Bioconjugate Chemistry, 2022, 33, 444-451.	3.6	6
67	Low-temperature study of neutral and charged excitons in the large-area monolayer WS ₂ . Japanese Journal of Applied Physics, 2018, 57, 060309.	1.5	5
68	Nitrogen-mediated aligned growth of hexagonal BN films for reliable high-performance InSe transistors. Journal of Materials Chemistry C, 2020, 8, 4421-4431.	5.5	5
69	Phosphorene: Enhanced Photoresponse from Phosphorene-Phosphorene-Suboxide Junction Fashioned by Focused Laser Micromachining (Adv. Mater. 21/2016). Advanced Materials, 2016, 28, 4164-4164.	21.0	4
70	Investigation of the Energy Band at the Molybdenum Disulfide and ZrO ₂ Heterojunctions. Nanoscale Research Letters, 2018, 13, 405.	5.7	4
71	Enhanced thermal conductivity of MoS ₂ /InSe-nanoparticles/MoS ₂ hybrid sandwich structure. Journal of Alloys and Compounds, 2019, 777, 1145-1151.	5.5	4
72	Modulation of Spin Dynamics in 2D Transition-Metal Dichalcogenide via Strain-Driven Symmetry Breaking. Advanced Science, 2022, , 2200816.	11.2	4

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73	Field-Effect Transistors: Low-Symmetry PdSe ₂ for High Performance Thermoelectric Applications (Adv. Funct. Mater. 52/2020). Advanced Functional Materials, 2020, 30, 2070347.	14.9	3
74	Bilayer twisting as a mean to isolate connected flat bands in a kagome lattice through Wigner crystallization*. Chinese Physics B, 2021, 30, 077104.	1.4	2
75	Memory Devices: MoS ₂ /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness (Adv. Mater. 42/2020). Advanced Materials, 2020, 32, 2070317.	21.0	1
76	Transition-Metal Dichalcogenides: Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides (Adv. Sci. 10/2020). Advanced Science, 2020, 7, .	11.2	1
77	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870325.	21.0	0
78	Fractals via Generalized Jungck's Iterative Scheme. Discrete Dynamics in Nature and Society, 2021, 2021, 1-12.	0.9	0
79	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). Advanced Materials, 2022, 34, .	21.0	0