

# Jia-Fu Wang

## List of Publications by Year in descending order

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56  
papers

690  
citations

516710

16  
h-index

580821

25  
g-index

56  
all docs

56  
docs citations

56  
times ranked

645  
citing authors

#	ARTICLE	IF	CITATIONS
1	18-Electron half-Heusler compound $\text{Ti}_{0.75}\text{NiSb}$ with intrinsic Ti vacancies as a promising thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9655-9669.	10.3	12
2	Synthesis mechanism and magnetoresistance effect of millimeter-sized GeTe faceted crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 165, 110671.	4.0	1
3	Structural, Magnetic and Magnetocaloric Properties of DyCoO <sub>3</sub> Nanoparticles. <i>Journal of Low Temperature Physics</i> , 2022, 208, 289-297.	1.4	1
4	Realizing high thermoelectric performance in GeTe by defect engineering on cation sites. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9052-9061.	5.5	5
5	Two-dimensional V-shaped PdI <sub>2</sub> : Auxetic semiconductor with ultralow lattice thermal conductivity and ultrafast alkali ion mobility. <i>Applied Surface Science</i> , 2022, 601, 154176.	6.1	10
6	Tellurium vacancy in two-dimensional Si <sub>2</sub> Te <sub>3</sub> for resistive random-access memory. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122448.	2.9	2
7	Prediction of two-dimensional M <sub>2</sub> As (M = Mn, Fe) with high Curie temperature and large perpendicular magnetic anisotropy. <i>Computational Materials Science</i> , 2021, 200, 110838.	3.0	5
8	Designing stable 2D materials solely from VIA elements. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
9	Nb <sub>2</sub> SiTe <sub>4</sub> and Nb <sub>2</sub> GeTe <sub>4</sub> : Unexplored 2D Ternary Layered Tellurides with High Stability, Narrow Band Gap and High Electron Mobility. <i>Journal of Electronic Materials</i> , 2020, 49, 959-968.	2.2	39
10	The feasibility analysis of growing the modified borophene on substrates: First-principles calculation. <i>Applied Surface Science</i> , 2020, 507, 144154.	6.1	2
11	A new family of two-dimensional ferroelastic semiconductors with negative Poisson's ratios. <i>Nanoscale</i> , 2020, 12, 14150-14159.	5.6	21
12	Monolayer $\text{Ti}_2\text{C}$ MXene: manipulating magnetic properties and electronic structures by an electric field. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11266-11272.	2.8	38
13	Improved phase change properties in layered $\text{Sc}_x\text{In}_{2-x}\text{Se}_3$ for multilevel information storage. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 285101.	2.8	1
14	$\text{Pt}_5\text{Se}_4$ Monolayer: A Highly Efficient Electrocatalyst toward Hydrogen and Oxygen Electrode Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13896-13903.	8.0	26
15	Synergic Effect in a New Electrocatalyst $\text{Ni}_2\text{SbTe}_2$ for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3671-3680.	3.1	11
16	Negative differential resistance and unsaturated magnetoresistance effects based on avalanche breakdown. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 305701.	1.8	2
17	Memristive and magnetoresistance effects of $\text{SnSe}$ . <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 117301.	0.5	0
18	Ti-doped Sn <sub>2</sub> Se <sub>3</sub> phase change material for improved thermal stability. <i>Materials Letters</i> , 2019, 254, 186-189.	2.6	2

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19	Gallium Thiophosphate: An Emerging Bidirectional Auxetic Two-Dimensional Crystal with Wide Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4455-4462.	4.6	35
20	Giant magnetocaloric effect in the antiferromagnet GdScO <sub>3</sub> single crystal. <i>Journal of Alloys and Compounds</i> , 2019, 803, 992-997.	5.5	20
21	Two novel triangular borophenes B <sub>3</sub> H and B <sub>6</sub> O: first-principles prediction. <i>Nanotechnology</i> , 2019, 30, 495201.	2.6	2
22	KTlO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. <i>Nanoscale</i> , 2019, 11, 1131-1139.	5.6	50
23	Planar penta-transition metal phosphide and arsenide as narrow-gap semiconductors with ultrahigh carrier mobility. <i>Journal of Materials Science</i> , 2019, 54, 7035-7047.	3.7	20
24	TIP <sub>5</sub> : an unexplored direct band gap 2D semiconductor with ultra-high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2019, 7, 639-644.	5.5	30
25	A large magnetocaloric effect of GdCoO <sub>3</sub> epitaxial thin films prepared by a polymer assisted spin-coating method. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14970-14976.	5.5	13
26	First-principle study on honeycomb fluorated-InTe monolayer with large Rashba spin splitting and direct bandgap. <i>Applied Surface Science</i> , 2019, 471, 18-22.	6.1	19
27	Effective modes investigation of transmitted and reflective heterocore optical fiber surface plasmon resonance sensors. <i>Applied Optics</i> , 2019, 58, 6975.	1.8	2
28	Giant magnetic entropy change in gadolinium orthoferrite near liquid hydrogen temperature. <i>Journal of Alloys and Compounds</i> , 2018, 739, 897-900.	5.5	21
29	Tunable Rashba spin splitting in two-dimensional graphene/As-I heterostructures. <i>Applied Surface Science</i> , 2018, 427, 10-14.	6.1	7
30	Design lateral heterostructure of monolayer ZrS <sub>2</sub> and HfS <sub>2</sub> from first principles calculations. <i>Applied Surface Science</i> , 2018, 436, 919-926.	6.1	33
31	Electric field manipulation of multiple nonequivalent Dirac cones in the electronic structures of hexagonal CrB <sub>4</sub> sheet. <i>Chinese Physics B</i> , 2018, 27, 097304.	1.4	1
32	Prediction of new group IV-V-VI monolayer semiconductors based on first principle calculation. <i>Computational Materials Science</i> , 2017, 135, 160-164.	3.0	19
33	The tuning effect of the electric field on the physical properties of some typical wurtzite semiconductors. <i>Modern Physics Letters B</i> , 2017, 31, 1750310.	1.9	1
34	Surface regulated arsenenes as Dirac materials: From density functional calculations. <i>Applied Surface Science</i> , 2017, 394, 625-629.	6.1	17
35	Effects of surface regulation on monolayers SbAs and BiSb. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 217101.	0.5	2
36	First-Principles Calculations of the Electronic Structure and Optical Properties of Y-Cu Co-Doped ZnO. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2015, 31, 1302-1308.	4.9	13

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37	ELECTRONIC STRUCTURES AND THE STABILITY OF $\text{MgO}$ SURFACE: DENSITY FUNCTIONAL STUDY. <i>Surface Review and Letters</i> , 2015, 22, 1550037.	1.1	15
38	Synthesis and characterization of hybrid latexes from soybean oil-based polyurethane and poly(2,2,2-trifluoroethyl methacrylate). <i>Fibers and Polymers</i> , 2014, 15, 208-214.	2.1	5
39	First-Principle Study of the Electronic and Optical Properties of Ti Doped ZnS. <i>Advanced Materials Research</i> , 2012, 430-432, 173-176.	0.3	1
40	Study on Non-uniform Transmission Line by Using Matlab Simulation. <i>International Journal of Advancements in Computing Technology</i> , 2012, 4, 567-576.	0.1	0
41	The I-V Measurement System for Solar Cells Based on MCU. <i>Journal of Physics: Conference Series</i> , 2011, 276, 012161.	0.4	0
42	Influence of temperature on neuronal excitability in cochlear nucleus. <i>Indian Journal of Physics</i> , 2010, 84, 309-317.	1.8	0
43	Slot-waveguide-assisted temperature-independent Mach-Zehnder interferometer based optical filter. <i>Journal of Modern Optics</i> , 2010, 57, 545-551.	1.3	7
44	Intrinsic Rhythmic Fluctuation of Membrane Voltage Evoked by Membrane Noise in the Hodgkin-Huxley System. <i>Acta Physica Polonica A</i> , 2010, 117, 435-438.	0.5	2
45	Thermal impact on spiking properties in Hodgkin-Huxley neuron with synaptic stimulus. <i>Pramana - Journal of Physics</i> , 2008, 70, 183-190.	1.8	4
46	Frequency Selectivity Behaviour in the Auditory Midbrain: Implications of Model Study. <i>Chinese Physics Letters</i> , 2006, 23, 3380-3383.	3.3	3
47	Resonance-enhanced signal detection and transduction in the Hodgkin-Huxley neuronal systems. <i>Physical Review E</i> , 2001, 63, 021907.	2.1	97
48	SCALING LAWS OF REVERSIBLE AGGREGATION IN COMPACT CLUSTER SYSTEMS. <i>International Journal of Modern Physics B</i> , 2000, 14, 983-991.	2.0	1
49	Title is missing!. <i>International Journal of Modern Physics B</i> , 2000, 14, 983.	2.0	0
50	Frequency sensitivity in weak signal detection. <i>Physical Review E</i> , 1999, 59, 3453-3460.	2.1	56
51	Frequency characteristics and intrinsic oscillations in a neuronal network. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 256, 181-187.	2.1	7
52	Analytical Results for the Critical Exponents of Fully Directed Levy Flights. <i>Communications in Theoretical Physics</i> , 1998, 29, 357-362.	2.5	0
53	Exact Results for Fully Directed Flights in $d$ -Dimensions. <i>Communications in Theoretical Physics</i> , 1994, 21, 397-402.	2.5	0
54	Critical Exponents of Fully Directed Flights: A Laplacian Transformation Method. <i>Communications in Theoretical Physics</i> , 1992, 17, 235-238.	2.5	0

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55	The Critical Behavior of Partially Directed SAW on Sierpinski Carpets. Communications in Theoretical Physics, 1991, 16, 355-358.	2.5	1
56	Directed true self-avoiding Levy flights. Journal of Physics A, 1991, 24, 4843-4851.	1.6	2