Jia-Fu Wang

List of Publications by Year in descending order

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| | | 516710 | 580821 |
|----------|----------------|--------------|----------------|
| 56 | 690 | 16 | 25 |
| papers | citations | h-index | g-index |
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| 56 | 56 | 56 | 645 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 1 | Resonance-enhanced signal detection and transduction in the Hodgkin-Huxley neuronal systems. Physical Review E, 2001, 63, 021907. | 2.1 | 97 |
| 2 | Frequency sensitivity in weak signal detection. Physical Review E, 1999, 59, 3453-3460. | 2.1 | 56 |
| 3 | KTIO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. Nanoscale, 2019, 11, 1131-1139. | 5.6 | 50 |
| 4 | Nb2SiTe4 and Nb2GeTe4: Unexplored 2D Ternary Layered Tellurides with High Stability, Narrow Band Gap and High Electron Mobility. Journal of Electronic Materials, 2020, 49, 959-968. | 2.2 | 39 |
| 5 | Monolayer Ti ₂ C MXene: manipulating magnetic properties and electronic structures by an electric field. Physical Chemistry Chemical Physics, 2020, 22, 11266-11272. | 2.8 | 38 |
| 6 | Gallium Thiophosphate: An Emerging Bidirectional Auxetic Two-Dimensional Crystal with Wide Direct Band Gap. Journal of Physical Chemistry Letters, 2019, 10, 4455-4462. | 4.6 | 35 |
| 7 | Design lateral heterostructure of monolayer ZrS2 and HfS2 from first principles calculations. Applied Surface Science, 2018, 436, 919-926. | 6.1 | 33 |
| 8 | TlP ₅ : an unexplored direct band gap 2D semiconductor with ultra-high carrier mobility. Journal of Materials Chemistry C, 2019, 7, 639-644. | 5. 5 | 30 |
| 9 | Pt ₅ Se ₄ Monolayer: A Highly Efficient Electrocatalyst toward Hydrogen and Oxygen Electrode Reactions. ACS Applied Materials & Interfaces, 2020, 12, 13896-13903. | 8.0 | 26 |
| 10 | Giant magnetic entropy change in gadolinium orthoferrite near liquid hydrogen temperature. Journal of Alloys and Compounds, 2018, 739, 897-900. | 5 . 5 | 21 |
| 11 | A new family of two-dimensional ferroelastic semiconductors with negative Poisson's ratios. Nanoscale, 2020, 12, 14150-14159. | 5.6 | 21 |
| 12 | Giant magnetocaloric effect in the antiferromagnet GdScO3 single crystal. Journal of Alloys and Compounds, 2019, 803, 992-997. | 5 . 5 | 20 |
| 13 | Planar penta-transition metal phosphide and arsenide as narrow-gap semiconductors with ultrahigh carrier mobility. Journal of Materials Science, 2019, 54, 7035-7047. | 3.7 | 20 |
| 14 | Prediction of new group IV-V-VI monolayer semiconductors based on first principle calculation. Computational Materials Science, 2017, 135, 160-164. | 3.0 | 19 |
| 15 | First-principle study on honeycomb fluorated-InTe monolayer with large Rashba spin splitting and direct bandgap. Applied Surface Science, 2019, 471, 18-22. | 6.1 | 19 |
| 16 | Surface regulated arsenenes as Dirac materials: From density functional calculations. Applied Surface Science, 2017, 394, 625-629. | 6.1 | 17 |
| 17 | ELECTRONIC STRUCTURES AND THE STABILITY OF MgO SURFACE: DENSITY FUNCTIONAL STUDY. Surface Review and Letters, 2015, 22, 1550037. | 1.1 | 15 |
| 18 | First-Principles Calculations of the Electronic Structure and Optical Properties of Y-Cu Co-Doped ZnO. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 1302-1308. | 4.9 | 13 |

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|----|--|-------------|-----------|
| 19 | A large magnetocaloric effect of GdCoO3â^î^ê epitaxial thin films prepared by a polymer assisted spin-coating method. Journal of Materials Chemistry C, 2019, 7, 14970-14976. | 5. 5 | 13 |
| 20 | 18-Electron half-Heusler compound Ti _{0.75} NiSb with intrinsic Ti vacancies as a promising thermoelectric material. Journal of Materials Chemistry A, 2022, 10, 9655-9669. | 10.3 | 12 |
| 21 | Synergic Effect in a New Electrocatalyst Ni ₂ SbTe ₂ for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 3671-3680. | 3.1 | 11 |
| 22 | Two-dimensional V-shaped PdI2: Auxetic semiconductor with ultralow lattice thermal conductivity and ultrafast alkali ion mobility. Applied Surface Science, 2022, 601, 154176. | 6.1 | 10 |
| 23 | Frequency characteristics and intrinsic oscillations in a neuronal network. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 256, 181-187. | 2.1 | 7 |
| 24 | Slot-waveguide-assisted temperature-independent Mach–Zehnder interferometer based optical filter. Journal of Modern Optics, 2010, 57, 545-551. | 1.3 | 7 |
| 25 | Tunable Rashba spin splitting in two-dimensional graphene/As-I heterostructures. Applied Surface Science, 2018, 427, 10-14. | 6.1 | 7 |
| 26 | Designing stable 2D materials solely from VIA elements. Applied Physics Letters, 2021, 119, . | 3.3 | 6 |
| 27 | Synthesis and characterization of hybrid latexes from soybean oil-based polyurethane and poly(2,2,2-trifluoroethyl methacrylate). Fibers and Polymers, 2014, 15, 208-214. | 2.1 | 5 |
| 28 | Prediction of two-dimensional M2As (MÂ=ÂMn, Fe) with high Curie temperature and large perpendicular magnetic anisotropy. Computational Materials Science, 2021, 200, 110838. | 3.0 | 5 |
| 29 | Realizing high thermoelectric performance in GeTe by defect engineering on cation sites. Journal of Materials Chemistry C, 2022, 10, 9052-9061. | 5.5 | 5 |
| 30 | Thermal impact on spiking properties in Hodgkin-Huxley neuron with synaptic stimulus. Pramana - Journal of Physics, 2008, 70, 183-190. | 1.8 | 4 |
| 31 | Frequency Selectivity Behaviour in the Auditory Midbrain: Implications of Model Study. Chinese Physics Letters, 2006, 23, 3380-3383. | 3.3 | 3 |
| 32 | Directed true self-avoiding Levy flights. Journal of Physics A, 1991, 24, 4843-4851. | 1.6 | 2 |
| 33 | Ti-doped Sn2Se3 phase change material for improved thermal stability. Materials Letters, 2019, 254, 186-189. | 2.6 | 2 |
| 34 | Two novel triangular borophenes B3H and B6O: first-principles prediction. Nanotechnology, 2019, 30, 495201. | 2.6 | 2 |
| 35 | The feasibility analysis of growing the modified borophene on substrates: First-principles calculation. Applied Surface Science, 2020, 507, 144154. | 6.1 | 2 |
| 36 | Tellurium vacancy in two-dimensional Si2Te3 for resistive random-access memory. Journal of Solid State Chemistry, 2021, 303, 122448. | 2.9 | 2 |

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|----|--|-----|-----------|
| 37 | Intrinsic Rhythmic Fluctuation of Membrane Voltage Evoked by Membrane Noise in the Hodgkin-Huxley System. Acta Physica Polonica A, 2010, 117, 435-438. | 0.5 | 2 |
| 38 | Effects of surface regulation on monolayers SbAs and BiSb. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 217101. | 0.5 | 2 |
| 39 | Effective modes investigation of transmitted and reflective heterocore optical fiber surface plasmon resonance sensors. Applied Optics, 2019, 58, 6975. | 1.8 | 2 |
| 40 | Negative differential resistance and unsaturated magnetoresistance effects based on avalanche breakdown. Journal of Physics Condensed Matter, 2020, 32, 305701. | 1.8 | 2 |
| 41 | The Critical Behavior of Partially Directed SAW on Sierpinski Carpets. Communications in Theoretical Physics, 1991, 16, 355-358. | 2.5 | 1 |
| 42 | SCALING LAWS OF REVERSIBLE AGGREGATION IN COMPACT CLUSTER SYSTEMS. International Journal of Modern Physics B, 2000, 14, 983-991. | 2.0 | 1 |
| 43 | First-Principle Study of the Electronic and Optical Properties of Ti Doped ZnS. Advanced Materials Research, 2012, 430-432, 173-176. | 0.3 | 1 |
| 44 | The tuning effect of the electric field on the physical properties of some typical wurtzite semiconductors. Modern Physics Letters B, 2017, 31, 1750310. | 1.9 | 1 |
| 45 | Electric field manipulation of multiple nonequivalent Dirac cones in the electronic structures of hexagonal CrB ₄ sheet. Chinese Physics B, 2018, 27, 097304. | 1.4 | 1 |
| 46 | Improved phase change properties in layered ScxIn2â^'xSe3 for multilevel information storage. Journal Physics D: Applied Physics, 2020, 53, 285101. | 2.8 | 1 |
| 47 | Synthesis mechanism and magnetoresistance effect of millimeter-sized GeTe faceted crystals. Journal of Physics and Chemistry of Solids, 2022, 165, 110671. | 4.0 | 1 |
| 48 | Structural, Magnetic and Magnetocaloric Properties of DyCoO3 Nanoparticles. Journal of Low Temperature Physics, 2022, 208, 289-297. | 1.4 | 1 |
| 49 | Critical Exponents of Fully Directed Flights: A Laplacian Transformation Method. Communications in Theoretical Physics, 1992, 17, 235-238. | 2.5 | 0 |
| 50 | Exact Results for Fully Directed Flights is <i>s</i> -Dimensions. Communications in Theoretical Physics, 1994, 21, 397-402. | 2.5 | 0 |
| 51 | Analytical Results for the Critical Exponents of Fully Directed Levy Flights. Communications in Theoretical Physics, 1998, 29, 357-362. | 2.5 | 0 |
| 52 | Influence of temperature on neuronal excitability in cochlear nucleus. Indian Journal of Physics, 2010, 84, 309-317. | 1.8 | 0 |
| 53 | The I-V Measurement System for Solar Cells Based on MCU. Journal of Physics: Conference Series, 2011, 276, 012161. | 0.4 | 0 |
| 54 | Title is missing!. International Journal of Modern Physics B, 2000, 14, 983. | 2.0 | 0 |

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| 55 | Study on Non-uniform Transmission Line by Using Matlab Simulation. International Journal of Advancements in Computing Technology, 2012, 4, 567-576. | 0.1 | O |
| 56 | Memristive and magnetoresistance effects of SnSe ₂ . Wuli Xuebao/Acta Physica Sinica, 2020, 69, 117301. | 0.5 | 0 |