## Ya-Dong Wei

## List of Publications by Year in descending order

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414414 394421 1,063 45 19 32 citations h-index g-index papers 45 45 45 1214 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Device Postannealing Enabling over 12% Efficient Solutionâ€Processed Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells with Cd <sup>2+</sup> Substitution. Advanced Materials, 2020, 32, e2000121.	21.0	201
2	Engineering the electronic and optoelectronic properties of $InX$ (X = S, Se, Te) monolayers via strain. Physical Chemistry Chemical Physics, 2017, 19, 4855-4860.	2.8	71
3	Spin-dependent Seebeck effects in graphene-based molecular junctions. Physical Review B, 2016, 93, .	3.2	63
4	Novel Two-Dimensional Layered MoSi2Z4 ( $Z = P$ , As): New Promising Optoelectronic Materials. Nanomaterials, 2021, 11, 559.	4.1	52
5	Electronics and optoelectronics of lateral heterostructures within monolayer indium monochalcogenides. Journal of Materials Chemistry C, 2016, 4, 11253-11260.	5.5	49
6	Rational construction of dual cobalt active species encapsulated by ultrathin carbon matrix from MOF for boosting photocatalytic H2 generation. Applied Catalysis B: Environmental, 2021, 286, 119924.	20.2	49
7	Investigation of Stacking Effects of Bilayer MoSSe on Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2019, 123, 22570-22577.	3.1	41
8	Oscillatory thermopower of carbon chains: First-principles calculations. Physical Review B, 2005, 71, .	3.2	38
9	Inorganic and Pb-Free CsBi <sub>3</sub> 1 <sub>10</sub> Thin Film for Photovoltaic Applications. Journal of Physical Chemistry C, 2019, 123, 27423-27428.	3.1	37
10	Discovery of Novel Two-Dimensional Photovoltaic Materials Accelerated by Machine Learning. Journal of Physical Chemistry Letters, 2020, 11, 3075-3081.	4.6	35
11	Current conserving nonequilibrium ac transport theory. Physical Review B, 2009, 79, .	3.2	31
12	Data-Driven Systematic Search of Promising Photocatalysts for Water Splitting under Visible Light. Journal of Physical Chemistry Letters, 2019, 10, 5211-5218.	4.6	31
13	Engineering of the interactions of volatile organic compounds with MoS <sub>2</sub> . Journal of Materials Chemistry C, 2017, 5, 1463-1470.	5.5	30
14	Nonadiabatic quantum spin pump: Interplay between spatial interference and photon-assisted tunneling in two-dimensional Rashba systems. Physical Review B, 2007, 75, .	3.2	29
15	Unraveling the Mechanism of Photoinduced Charge-Transfer Process in Bilayer Heterojunction. ACS Applied Materials & Samp; Interfaces, 2018, 10, 25401-25408.	8.0	29
16	Spin-valve effect in a carbon atomic wire. Physical Review B, 2004, 70, .	3.2	27
17	Oscillation of dynamic conductance of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Al-C</mml:mtext></mml:mrow><mml:mi>Nonequilibrium Green's function and density functional theory study. Physical Review B, 2009, 79, .</mml:mi></mml:msub></mml:mrow></mml:math>	n< <b>\$r<u>a</u>ml:</b> m	ni> <b>2</b> 5mml:msu
18	Spin pump in the presence of a superconducting lead. Physical Review B, 2004, 70, .	3.2	22

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19	Hexagonal layered group IV–VI semiconductors and derivatives: fresh blood of the 2D family. Nanoscale, 2020, 12, 13450-13459.	5.6	20
20	Heat current and spin current through a carbon-nanotube-based molecular quantum pump. Physical Review B, 2004, 70, .	<b>3.2</b>	18
21	Highly Tunable Electronic Structures of Phosphorene/Carbon Nanotube Heterostructures through External Electric Field and Atomic Intercalation. Nano Letters, 2017, 17, 7995-8004.	9.1	15
22	Spin-resolved quantum transport in graphene-based nanojunctions. Frontiers of Physics, 2017, 12, 1.	5.0	14
23	Two-dimensional few-layered PC <sub>3</sub> as a promising photocatalyst for overall water splitting. Physical Chemistry Chemical Physics, 2020, 22, 9477-9486.	2.8	12
24	Dissipative dynamics in a tunable Rabi dimer with periodic harmonic driving. Journal of Chemical Physics, 2019, 150, 184116.	3.0	11
25	Gate controlled electronic transport in monolayer MoS2 field effect transistor. Journal of Applied Physics, 2015, 117, .	2.5	10
26	Tunable electronic properties and band alignments of InS–arsenene heterostructures <i>via</i> external strain and electric field. New Journal of Chemistry, 2021, 45, 2508-2519.	2.8	10
27	Promises of Main-Group Metal Chalcogenide-Based Broken-Gap van der Waals Heterojunctions for Tunneling Field Effect Transistors. ACS Applied Electronic Materials, 2021, 3, 898-904.	4.3	9
28	Optical, Electronic, and Contact Properties of Janus-MoSO/MoS <sub>2</sub> Heterojunction. Journal of Physical Chemistry C, 2020, 124, 15988-15994.	3.1	8
29	Engineering Photon Delocalization in a Rabi Dimer with a Dissipative Bath. Annalen Der Physik, 2018, 530, 1800351.	2.4	7
30	Size dependence in two-dimensional lateral heterostructures of transition metal dichalcogenides. Journal of Materials Chemistry C, 2019, 7, 3837-3842.	5 <b>.</b> 5	7
31	Transport induced dimer state from topological corner states. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	7
32	Strain-gated nonlinear Hall effect in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MoSe</mml:mi><mi .<="" 104,="" 2021,="" b,="" der="" heterostructure.="" physical="" review="" td="" van="" waals=""><td>ml<b>:เลเอ</b>&gt;2<!--</td--><td>/m<b>m</b>l:mn&gt;</td></td></mi></mml:msub></mml:mrow></mml:math>	ml <b>:เลเอ</b> >2 </td <td>/m<b>m</b>l:mn&gt;</td>	/m <b>m</b> l:mn>
33	First-principles calculation of the Andreev conductance of carbon wires. Physical Review B, 2012, 86, .	3.2	6
34	Full counting statistics of conductance for disordered systems. Physical Review B, 2017, 96, .	3.2	6
35	Modulating Blue Phosphorene by Synergetic Codoping: Indirect to Direct Gap Transition and Strong Bandgap Bowing. Advanced Functional Materials, 2019, 29, 1808721.	14.9	6
36	Unveiling the layer-dependent electronic properties in transition-metal dichalcogenide heterostructures assisted by machine learning. Nanoscale, 2022, 14, 2511-2520.	5.6	6

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#	Article	IF	CITATIONS
37	Toward barrier free contact to MoSe2/WSe2 heterojunctions using two-dimensional metal electrodes. Nanotechnology, 2019, 30, 015707.	2.6	5
38	Electronic and Magnetic Diversity of Graphone/Graphene Superlattices. Chemistry of Materials, 2021, 33, 2090-2098.	6.7	5
39	Transport features of topological corner states in honeycomb lattice with multihollow structure. Frontiers of Physics, 2022, 17, 1.	5.0	5
40	NONLINEAR THERMOELECTRIC TRANSPORT THROUGH A DOUBLE BARRIER STRUCTURE. Modern Physics Letters B, 2006, 20, 215-223.	1.9	3
41	Noncollinear frustrated antiferromagnetic Mn3P monolayer and its tunability via a spin degree of freedom. Journal of Materials Chemistry C, 2020, 8, 11369-11375.	<b>5.</b> 5	3
42	Frequency-dependent transport properties in disordered systems: A generalized coherent potential approximation approach. Physical Review B, 2019, 99, .	3.2	2
43	Dynamic response of silicon nanostructures at finite frequency: An orbital-free density functional theory and non-equilibrium Green's function study. Journal of Applied Physics, 2013, 114, 153703.	2.5	1
44	Statistical analysis for current fluctuations in a disordered quantum pump. Physical Review B, 2007, 76, .	3.2	0
45	Multi-energy X-ray CT and data-constrained modeling of shale 3D microstructure. Materialpruefung/Materials Testing, 2022, 64, 105-115.	2.2	0