

# Ya-Dong Wei

## List of Publications by Year in descending order

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45  
papers

1,063  
citations

394421

19  
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414414

32  
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all docs

45  
docs citations

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times ranked

1214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the layer-dependent electronic properties in transition-metal dichalcogenide heterostructures assisted by machine learning. <i>Nanoscale</i> , 2022, 14, 2511-2520.	5.6	6
2	Multi-energy X-ray CT and data-constrained modeling of shale 3D microstructure. <i>Materialprüfung/Materials Testing</i> , 2022, 64, 105-115.	2.2	0
3	Transport features of topological corner states in honeycomb lattice with multihollow structure. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	5
4	Promises of Main-Group Metal Chalcogenide-Based Broken-Gap van der Waals Heterojunctions for Tunneling Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 898-904.	4.3	9
5	Novel Two-Dimensional Layered MoSi <sub>2</sub> Z <sub>4</sub> (Z = P, As): New Promising Optoelectronic Materials. <i>Nanomaterials</i> , 2021, 11, 559.	4.1	52
6	Electronic and Magnetic Diversity of Graphene/Graphene Superlattices. <i>Chemistry of Materials</i> , 2021, 33, 2090-2098.	6.7	5
7	Transport induced dimer state from topological corner states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	7
8	Rational construction of dual cobalt active species encapsulated by ultrathin carbon matrix from MOF for boosting photocatalytic H <sub>2</sub> generation. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119924.	20.2	49
9	Tunable electronic properties and band alignments of InSb <sup>α</sup> arsenene heterostructures <i>via</i> external strain and electric field. <i>New Journal of Chemistry</i> , 2021, 45, 2508-2519.	2.8	10
10	Strain-gated nonlinear Hall effect in two-dimensional $\text{MoSe}_2$ van der Waals heterostructure. <i>Physical Review B</i> , 2021, 104, .		
11	Noncollinear frustrated antiferromagnetic Mn <sub>3</sub> P monolayer and its tunability via a spin degree of freedom. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11369-11375.	5.5	3
12	Hexagonal layered group IV <sup>α</sup> VI semiconductors and derivatives: fresh blood of the 2D family. <i>Nanoscale</i> , 2020, 12, 13450-13459.	5.6	20
13	Optical, Electronic, and Contact Properties of Janus-MoSO <sub>2</sub> /MoS <sub>2</sub> Heterojunction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15988-15994.	3.1	8
14	Device Postannealing Enabling over 12% Efficient Solution-Processed Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells with Cd <sup>2+</sup> Substitution. <i>Advanced Materials</i> , 2020, 32, e2000121.	21.0	201
15	Two-dimensional few-layered PC <sub>3</sub> as a promising photocatalyst for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9477-9486.	2.8	12
16	Discovery of Novel Two-Dimensional Photovoltaic Materials Accelerated by Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3075-3081.	4.6	35
17	Investigation of Stacking Effects of Bilayer MoSSe on Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22570-22577.	3.1	41
18	Dissipative dynamics in a tunable Rabi dimer with periodic harmonic driving. <i>Journal of Chemical Physics</i> , 2019, 150, 184116.	3.0	11

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19	Data-Driven Systematic Search of Promising Photocatalysts for Water Splitting under Visible Light. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5211-5218.	4.6	31
20	Inorganic and Pb-Free CsBi <sub>3</sub> I <sub>10</sub> Thin Film for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27423-27428.	3.1	37
21	Modulating Blue Phosphorene by Synergetic Codoping: Indirect to Direct Gap Transition and Strong Bandgap Bowing. <i>Advanced Functional Materials</i> , 2019, 29, 1808721.	14.9	6
22	Frequency-dependent transport properties in disordered systems: A generalized coherent potential approximation approach. <i>Physical Review B</i> , 2019, 99, .	3.2	2
23	Size dependence in two-dimensional lateral heterostructures of transition metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3837-3842.	5.5	7
24	Toward barrier free contact to MoSe <sub>2</sub> /WSe <sub>2</sub> heterojunctions using two-dimensional metal electrodes. <i>Nanotechnology</i> , 2019, 30, 015707.	2.6	5
25	Engineering Photon Delocalization in a Rabi Dimer with a Dissipative Bath. <i>Annalen Der Physik</i> , 2018, 530, 1800351.	2.4	7
26	Unraveling the Mechanism of Photoinduced Charge-Transfer Process in Bilayer Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25401-25408.	8.0	29
27	Engineering the electronic and optoelectronic properties of InX (X = S, Se, Te) monolayers via strain. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4855-4860.	2.8	71
28	Engineering of the interactions of volatile organic compounds with MoS <sub>2</sub> . <i>Journal of Materials Chemistry C</i> , 2017, 5, 1463-1470.	5.5	30
29	Full counting statistics of conductance for disordered systems. <i>Physical Review B</i> , 2017, 96, .	3.2	6
30	Highly Tunable Electronic Structures of Phosphorene/Carbon Nanotube Heterostructures through External Electric Field and Atomic Intercalation. <i>Nano Letters</i> , 2017, 17, 7995-8004.	9.1	15
31	Spin-resolved quantum transport in graphene-based nanojunctions. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	14
32	Spin-dependent Seebeck effects in graphene-based molecular junctions. <i>Physical Review B</i> , 2016, 93, .	3.2	63
33	Electronics and optoelectronics of lateral heterostructures within monolayer indium monochalcogenides. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11253-11260.	5.5	49
34	Gate controlled electronic transport in monolayer MoS <sub>2</sub> field effect transistor. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	10
35	Dynamic response of silicon nanostructures at finite frequency: An orbital-free density functional theory and non-equilibrium Green's function study. <i>Journal of Applied Physics</i> , 2013, 114, 153703.	2.5	1
36	First-principles calculation of the Andreev conductance of carbon wires. <i>Physical Review B</i> , 2012, 86, .	3.2	6

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37	Oscillation of dynamic conductance of $\langle \text{Al-C} \rangle$ Nonequilibrium Green's function and density functional theory study. Physical Review B, 2009, 79, .	3.2	25
38	Current conserving nonequilibrium ac transport theory. Physical Review B, 2009, 79, .	3.2	31
39	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
40	Statistical analysis for current fluctuations in a disordered quantum pump. Physical Review B, 2007, 76, .	3.2	0
41	NONLINEAR THERMOELECTRIC TRANSPORT THROUGH A DOUBLE BARRIER STRUCTURE. Modern Physics Letters B, 2006, 20, 215-223.	1.9	3
42	Oscillatory thermopower of carbon chains: First-principles calculations. Physical Review B, 2005, 71, .	3.2	38
43	Spin-valve effect in a carbon atomic wire. Physical Review B, 2004, 70, .	3.2	27
44	Spin pump in the presence of a superconducting lead. Physical Review B, 2004, 70, .	3.2	22
45	Heat current and spin current through a carbon-nanotube-based molecular quantum pump. Physical Review B, 2004, 70, .	3.2	18