Junguang Tao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50 papers	1,916 citations	15 h-index	43 g-index
53 ext. papers	2,196 ext. citations	4.5 avg, IF	4.95 L-index

#	Paper	IF	Citations
50	Low-cost single-atom transition metals on two-dimensional SnO nanosheets for efficient hydrogen evolution catalysis in all pH-range. *Applied Surface Science*, **2022**, 578, 152021	6.7	1
49	Hierarchical design of Ni3S2@Co9S8 nanotubes for supercapacitors with long cycle-life and high energy density. *Journal of Alloys and Compounds*, **2022**, 900, 163503	5.7	4
48	Tunable magnetic coupling and high Curie temperature of two□dimensional PtBr3 via van der waals heterostructures. *Applied Surface Science*, **2022**, 572, 151478	6.7	1
47	Effect of morphology and stacking on atomic interaction and magnetic characteristics in two-dimensional H-phase VS2 few layers. *Journal of Materials Science*, **2022**, 57, 5873-5884	4.3	1
46	Nano-dendrite structured cobalt phosphide based hybrid supercapacitor with high energy storage and cycling stability. *Nanotechnology*, **2021**, 33,	3.4	4
45	Prospect of Ni-related metal oxides for high-performance supercapacitor electrodes. *Journal of Materials Science*, **2021**, 56, 1897-1918	4.3	8
44	Boosted cycling stability of CoP nano-needles based hybrid supercapacitor with high energy density upon surface phosphorization. *Electrochimica Acta*, **2021**, 368, 137690	6.7	10
43	Atomically dispersed low-cost transition metals catalyze efficient hydrogen evolution on two-dimensional SnO nanosheets. *International Journal of Hydrogen Energy*, **2021**, 46, 28602-28612	6.7	1
42	Facile synthesis of MoS2/Ni2V3O8 nanosheets for pH-universal efficient hydrogen evolution catalysis. *Chemical Engineering Journal*, **2021**, 423, 130196	14.7	4
41	Defect-mediated strong exciton-phonon coupling between flower-like WS2 film with vicinity layers. *Journal of Luminescence*, **2020**, 226, 117483	3.8	4
40	The Magnetic Proximity Effect Induced Large Valley Splitting in 2D InSe/FeI Heterostructures. *Nanomaterials*, **2020**, 10,	5.4	2
39	Inward growth of monolayer MoS2 single crystals from molten Na2MoO4 droplets. *Materials Chemistry and Physics*, **2020**, 240, 122203	4.4	4
38	A 2D Rashba electron gas with large spin splitting in Janus structures of SnPbO. *Physical Chemistry Chemical Physics*, **2020**, 22, 11409-11416	3.6	3
37	Origin of high hydrogen evolution activity on InSe nanoribbons: A first-principles study. *International Journal of Hydrogen Energy*, **2019**, 44, 24174-24183	6.7	5
36	Prediction of directional magnetic-exchange coupling in Mn doped □nSe monolayer. *Results in Physics*, **2019**, 14, 102416	3.7	0
35	Origin of Intrinsic Direct Band Gap of Janus Group-III Chalcogenide Monolayers. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900070	1.3	5
34	Surface engineering of layered SnO micro-plates for impressive high supercapacitor performance. *Materials Chemistry and Physics*, **2019**, 238, 121889	4.4	7

33	Morphology control of Ni3S2 multiple structures and their effect on supercapacitor performances. *Journal of Materials Science*, **2019**, 54, 12737-12746	4.3	16
32	Phase Transition-Promoted Hydrogen Evolution Performance of MoS2/VO2 Hybrids. *Journal of Physical Chemistry C*, **2018**, 122, 2618-2623	3.8	16
31	Well-patterned Au nanodots on MoS2/TiO2 hybrids for enhanced hydrogen evolution activity. *Electrochimica Acta*, **2018**, 283, 419-427	6.7	12
30	Tungsten and nitrogen co-doped TiO2 nanobelts with significant visible light photoactivity. *Surface and Interface Analysis*, **2018**, 50, 146-153	1.5	1
29	Well-ordered vertically aligned ZnO/CdS core/shell nanowires with enhanced photocatalytic performance. *Surface and Coatings Technology*, **2017**, 320, 467-471	4.4	9
28	Tailoring the electronic and magnetic properties of monolayer SnO by B, C, N, O and F adatoms. *Scientific Reports*, **2017**, 7, 44568	4.9	11
27	Competitive Growth Mechanism of WS2/MoS2 Vertical Heterostructures at High Temperature. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700219	1.3	4
26	Mechanism of Magnetic Coupling in Carrier-Doped SnO Nanosheets. *Physical Review Applied*, **2017**, 8,	4.3	6
25	Strain effect on electronic structure of two-dimensional □nSe nanosheets. *Applied Physics Express*, **2017**, 10, 125202	2.4	4
24	Effect of growth rate on the structure and physical properties of Mo doped ZnO films. *Superlattices and Microstructures*, **2016**, 99, 175-181	2.8	3
23	Subsurface growth of ultrathin Ni films on Cu(001) surfaces: Photoemission singularity index study. *Journal of Crystal Growth*, **2016**, 433, 160-164	1.6	
22	Effect of inplane strain on the electronic structure of mono- and bilayer black phosphorus. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 1729-1733	1.3	2
21	Effect of substrate temperature on the structure, electrical and optical properties of Mo doped ZnO films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 211, 135-140	3.1	12
20	Prediction of the electronic structure of single-walled black phosphorus nanotubes. *Physical Chemistry Chemical Physics*, **2016**, 18, 15177-81	3.6	8
19	Interfacial engineering of MoS2/TiO2hybrids for enhanced electrocatalytic hydrogen evolution reaction. *Applied Physics Express*, **2016**, 9, 095801	2.4	23
18	Defect assisted coupling of a□MoS2/TiO2 interface and tuning of its□electronic structure. *Nanotechnology*, **2016**, 27, 355203	3.4	18
17	Effect of interfacial coupling on photocatalytic performance of large scale MoS2/TiO2 hetero-thin films. *Applied Physics Letters*, **2015**, 106, 081602	3.4	40
16	Growth of wafer-scale MoS2 monolayer by magnetron sputtering. *Nanoscale*, **2015**, 7, 2497-503	7.7	182

15	Why is anatase a better photocatalyst than rutile?--Model studies on epitaxial TiO2 films. *Scientific Reports*, **2014**, 4, 4043	4.9	776
14	Atomic N Modified Rutile TiO2(110) Surface Layer with Significant Visible Light Photoactivity. *Journal of Physical Chemistry C*, **2014**, 118, 994-1000	3.8	26
13	Mechanism of insulator-to-metal transition in heavily Nb doped anatase TiO2. *Materials Research Express*, **2014**, 1, 015911	1.7	9
12	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. *Applied Physics Letters*, **2014**, 104, 232110	3.4	46
11	Combined Surface Science and DFT Study of the Adsorption of Dinitrotoluene (2,4-DNT) on Rutile TiO2(110): Molecular Scale Insight into Sensing of Explosives. *Journal of Physical Chemistry C*, **2013**, 117, 16468-16476	3.8	10
10	Growth of single crystalline TaON on yttria-stabilized zirconia (YSZ). *Journal of Solid State Chemistry* , **2013**, 204, 27-31	3.3	14
9	Surface Science Studies of Metal Oxide Gas Sensing Materials **2013**, 35-67		2
8	Role of surface stoichiometry on the interfacial electron behavior at Ni/TiO2(0 0 1) interfaces. *Materials Chemistry and Physics*, **2012**, 133, 871-875	4.4	6
7	Diffusion and Reaction of Hydrogen on Rutile TiO2(011)-2□1: The Role of Surface Structure. *Journal of Physical Chemistry C*, **2012**, 116, 20438-20446	3.8	39
6	Adsorbate induced restructuring of TiO2(011)-(2□1) leads to one-dimensional nanocluster formation. *Physical Review Letters*, **2012**, 108, 106105	7.4	25
5	A two-dimensional phase of TiO□with a reduced bandgap. *Nature Chemistry*, **2011**, 3, 296-300	17.6	339
4	Adsorption of Acetic Acid on Rutile TiO2(110) vs (011)-2 □1 Surfaces. *Journal of Physical Chemistry C*, **2011**, 115, 3434-3442	3.8	44
3	Ultrathin Y2O3(111) films on Pt(111) substrates. *Surface Science*, **2011**, 605, 1826-1833	1.8	15
2	Role of Surface Structure on the Charge Trapping in TiO2 Photocatalysts. *Journal of Physical Chemistry Letters*, **2010**, 1, 3200-3206	6.4	44
1	Reversible UV-light-induced ultrahydrophobic-to-ultrahydrophilic transition in an alpha-Fe2O3 nanoflakes film. *Langmuir*, **2008**, 24, 10569-71	4	87