

Junguang Tao

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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	Why is anatase a better photocatalyst than rutile?--Model studies on epitaxial TiO ₂ films. <i>Scientific Reports</i> , 2014 , 4, 4043	4.9	776
49	A two-dimensional phase of TiO ₂ with a reduced bandgap. <i>Nature Chemistry</i> , 2011 , 3, 296-300	17.6	339
48	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. <i>Nanoscale</i> , 2015 , 7, 2497-503	7.7	182
47	Reversible UV-light-induced ultrahydrophobic-to-ultrahydrophilic transition in an alpha-Fe ₂ O ₃ nanoflakes film. <i>Langmuir</i> , 2008 , 24, 10569-71	4	87
46	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. <i>Applied Physics Letters</i> , 2014 , 104, 232110	3.4	46
45	Role of Surface Structure on the Charge Trapping in TiO ₂ Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3200-3206	6.4	44
44	Adsorption of Acetic Acid on Rutile TiO ₂ (110) vs (011)-2 × Surfaces. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3434-3442	3.8	44
43	Effect of interfacial coupling on photocatalytic performance of large scale MoS ₂ /TiO ₂ hetero-thin films. <i>Applied Physics Letters</i> , 2015 , 106, 081602	3.4	40
42	Diffusion and Reaction of Hydrogen on Rutile TiO ₂ (011)-2 ×: The Role of Surface Structure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20438-20446	3.8	39
41	Atomic N Modified Rutile TiO ₂ (110) Surface Layer with Significant Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 994-1000	3.8	26
40	Adsorbate induced restructuring of TiO ₂ (011)-(2 ×) leads to one-dimensional nanocluster formation. <i>Physical Review Letters</i> , 2012 , 108, 106105	7.4	25
39	Interfacial engineering of MoS ₂ /TiO ₂ hybrids for enhanced electrocatalytic hydrogen evolution reaction. <i>Applied Physics Express</i> , 2016 , 9, 095801	2.4	23
38	Defect assisted coupling of a MoS ₂ /TiO ₂ interface and tuning of its electronic structure. <i>Nanotechnology</i> , 2016 , 27, 355203	3.4	18
37	Phase Transition-Promoted Hydrogen Evolution Performance of MoS ₂ /VO ₂ Hybrids. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2618-2623	3.8	16
36	Morphology control of Ni ₃ S ₂ multiple structures and their effect on supercapacitor performances. <i>Journal of Materials Science</i> , 2019 , 54, 12737-12746	4.3	16
35	Ultrathin Y ₂ O ₃ (111) films on Pt(111) substrates. <i>Surface Science</i> , 2011 , 605, 1826-1833	1.8	15
34	Growth of single crystalline TaON on yttria-stabilized zirconia (YSZ). <i>Journal of Solid State Chemistry</i> , 2013 , 204, 27-31	3.3	14

33	Well-patterned Au nanodots on MoS ₂ /TiO ₂ hybrids for enhanced hydrogen evolution activity. <i>Electrochimica Acta</i> , 2018 , 283, 419-427	6.7	12
32	Effect of substrate temperature on the structure, electrical and optical properties of Mo doped ZnO films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 211, 135-140	3.1	12
31	Tailoring the electronic and magnetic properties of monolayer SnO by B, C, N, O and F adatoms. <i>Scientific Reports</i> , 2017 , 7, 44568	4.9	11
30	Combined Surface Science and DFT Study of the Adsorption of Dinitrotoluene (2,4-DNT) on Rutile TiO ₂ (110): Molecular Scale Insight into Sensing of Explosives. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16468-16476	3.8	10
29	Boosted cycling stability of CoP nano-needles based hybrid supercapacitor with high energy density upon surface phosphorization. <i>Electrochimica Acta</i> , 2021 , 368, 137690	6.7	10
28	Well-ordered vertically aligned ZnO/CdS core/shell nanowires with enhanced photocatalytic performance. <i>Surface and Coatings Technology</i> , 2017 , 320, 467-471	4.4	9
27	Mechanism of insulator-to-metal transition in heavily Nb doped anatase TiO ₂ . <i>Materials Research Express</i> , 2014 , 1, 015911	1.7	9
26	Prediction of the electronic structure of single-walled black phosphorus nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15177-81	3.6	8
25	Prospect of Ni-related metal oxides for high-performance supercapacitor electrodes. <i>Journal of Materials Science</i> , 2021 , 56, 1897-1918	4.3	8
24	Surface engineering of layered SnO micro-plates for impressive high supercapacitor performance. <i>Materials Chemistry and Physics</i> , 2019 , 238, 121889	4.4	7
23	Role of surface stoichiometry on the interfacial electron behavior at Ni/TiO ₂ (0 0 1) interfaces. <i>Materials Chemistry and Physics</i> , 2012 , 133, 871-875	4.4	6
22	Mechanism of Magnetic Coupling in Carrier-Doped SnO Nanosheets. <i>Physical Review Applied</i> , 2017 , 8,	4.3	6
21	Origin of high hydrogen evolution activity on InSe nanoribbons: A first-principles study. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24174-24183	6.7	5
20	Origin of Intrinsic Direct Band Gap of Janus Group-III Chalcogenide Monolayers. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900070	1.3	5
19	Defect-mediated strong exciton-phonon coupling between flower-like WS ₂ film with vicinity layers. <i>Journal of Luminescence</i> , 2020 , 226, 117483	3.8	4
18	Competitive Growth Mechanism of WS ₂ /MoS ₂ Vertical Heterostructures at High Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700219	1.3	4
17	Strain effect on electronic structure of two-dimensional InSe nanosheets. <i>Applied Physics Express</i> , 2017 , 10, 125202	2.4	4
16	Nano-dendrite structured cobalt phosphide based hybrid supercapacitor with high energy storage and cycling stability. <i>Nanotechnology</i> , 2021 , 33,	3.4	4

15	Hierarchical design of Ni ₃ S ₂ @Co ₉ S ₈ nanotubes for supercapacitors with long cycle-life and high energy density. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163503	5.7	4
14	Inward growth of monolayer MoS ₂ single crystals from molten Na ₂ MoO ₄ droplets. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122203	4.4	4
13	Facile synthesis of MoS ₂ /Ni ₂ V ₃ O ₈ nanosheets for pH-universal efficient hydrogen evolution catalysis. <i>Chemical Engineering Journal</i> , 2021 , 423, 130196	14.7	4
12	Effect of growth rate on the structure and physical properties of Mo doped ZnO films. <i>Superlattices and Microstructures</i> , 2016 , 99, 175-181	2.8	3
11	A 2D Rashba electron gas with large spin splitting in Janus structures of SnPbO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11409-11416	3.6	3
10	Surface Science Studies of Metal Oxide Gas Sensing Materials 2013 , 35-67		2
9	The Magnetic Proximity Effect Induced Large Valley Splitting in 2D InSe/FeI Heterostructures. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
8	Effect of inplane strain on the electronic structure of mono- and bilayer black phosphorus. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1729-1733	1.3	2
7	Low-cost single-atom transition metals on two-dimensional SnO nanosheets for efficient hydrogen evolution catalysis in all pH-range. <i>Applied Surface Science</i> , 2022 , 578, 152021	6.7	1
6	Tunable magnetic coupling and high Curie temperature of two-dimensional PtBr ₃ via van der waals heterostructures. <i>Applied Surface Science</i> , 2022 , 572, 151478	6.7	1
5	Tungsten and nitrogen co-doped TiO ₂ nanobelts with significant visible light photoactivity. <i>Surface and Interface Analysis</i> , 2018 , 50, 146-153	1.5	1
4	Atomically dispersed low-cost transition metals catalyze efficient hydrogen evolution on two-dimensional SnO nanosheets. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28602-28612	6.7	1
3	Effect of morphology and stacking on atomic interaction and magnetic characteristics in two-dimensional H-phase VS ₂ few layers. <i>Journal of Materials Science</i> , 2022 , 57, 5873-5884	4.3	1
2	Prediction of directional magnetic-exchange coupling in Mn doped InSe monolayer. <i>Results in Physics</i> , 2019 , 14, 102416	3.7	0
1	Subsurface growth of ultrathin Ni films on Cu(001) surfaces: Photoemission singularity index study. <i>Journal of Crystal Growth</i> , 2016 , 433, 160-164	1.6	