

Junguang Tao

List of Publications by Year in descending order

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53
papers

2,527
citations

471061

17
h-index

189595

50
g-index

53
all docs

53
docs citations

53
times ranked

4909
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is anatase a better photocatalyst than rutile? - Model studies on epitaxial TiO ₂ films. Scientific Reports, 2014, 4, 4043.	1.6	1,081
2	A two-dimensional phase of TiO ₂ with a reduced bandgap. Nature Chemistry, 2011, 3, 296-300.	6.6	374
3	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. Nanoscale, 2015, 7, 2497-2503.	2.8	225
4	Reversible UV-Light-Induced Ultrahydrophobic-to-Ultrahydrophilic Transition in an Fe_2O_3 Nanoflakes Film. Langmuir, 2008, 24, 10569-10571.	1.6	95
5	The energy-band alignment at molybdenum disulphide and high- κ dielectrics interfaces. Applied Physics Letters, 2014, 104, .	1.5	53
6	Role of Surface Structure on the Charge Trapping in TiO ₂ Photocatalysts. Journal of Physical Chemistry Letters, 2010, 1, 3200-3206.	2.1	48
7	Adsorption of Acetic Acid on Rutile TiO ₂ (110) vs (011)-2 \AA -1 Surfaces. Journal of Physical Chemistry C, 2011, 115, 3434-3442.	1.5	48
8	Effect of interfacial coupling on photocatalytic performance of large scale MoS ₂ /TiO ₂ hetero-thin films. Applied Physics Letters, 2015, 106, 081602.	1.5	47
9	Diffusion and Reaction of Hydrogen on Rutile TiO ₂ (011)-2 \AA -1: The Role of Surface Structure. Journal of Physical Chemistry C, 2012, 116, 20438-20446.	1.5	42
10	Atomic N Modified Rutile TiO ₂ (110) Surface Layer with Significant Visible Light Photoactivity. Journal of Physical Chemistry C, 2014, 118, 994-1000.	1.5	31
11	Boosted cycling stability of CoP nano-needles based hybrid supercapacitor with high energy density upon surface phosphorization. Electrochimica Acta, 2021, 368, 137690.	2.6	29
12	Interfacial engineering of MoS ₂ /TiO ₂ hybrids for enhanced electrocatalytic hydrogen evolution reaction. Applied Physics Express, 2016, 9, 095801.	1.1	27
13	Adsorbate-induced restructuring of $\text{TiO}_2(110)$ surface. $\text{TiO}_2(110)$ surface layer with significant visible light photoactivity. Journal of Physical Chemistry C, 2014, 118, 994-1000.	2.9	26
14	Morphology control of Ni ₃ S ₂ multiple structures and their effect on supercapacitor performances. Journal of Materials Science, 2019, 54, 12737-12746.	1.7	26
15	Defect assisted coupling of a MoS ₂ /TiO ₂ interface and tuning of its electronic structure. Nanotechnology, 2016, 27, 355203.	1.3	24
16	Tailoring the electronic and magnetic properties of monolayer SnO by B, C, N, O and F adatoms. Scientific Reports, 2017, 7, 44568.	1.6	21
17	Phase Transition-Promoted Hydrogen Evolution Performance of MoS ₂ /VO ₂ Hybrids. Journal of Physical Chemistry C, 2018, 122, 2618-2623.	1.5	20
18	Growth of single crystalline TaON on yttria-stabilized zirconia (YSZ). Journal of Solid State Chemistry, 2013, 204, 27-31.	1.4	17

#	ARTICLE	IF	CITATIONS
19	Ultrathin Y ₂ O ₃ (111) films on Pt(111) substrates. <i>Surface Science</i> , 2011, 605, 1826-1833.	0.8	16
20	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.	1.7	16
21	Well-patterned Au nanodots on MoS ₂ /TiO ₂ hybrids for enhanced hydrogen evolution activity. <i>Electrochimica Acta</i> , 2018, 283, 419-427.	2.6	16
22	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.	2.8	16
23	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.	6.6	15
24	Mechanism of Magnetic Coupling in Carrier-Doped SnO Nanosheets. <i>Physical Review Applied</i> , 2017, 8, .	1.5	13
25	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.	1.5	12
26	Origin of Intrinsic Direct Band Gap of Janus Group-VI Chalcogenide Monolayers. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900070.	0.7	12
27	Strong Spin-Phonon Coupling in Two-Dimensional Magnetic Semiconductor CrSBr. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10574-10583.	1.5	12
28	Prediction of the electronic structure of single-walled black phosphorus nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15177-15181.	1.3	11
29	Prospect of Ni-related metal oxides for high-performance supercapacitor electrodes. <i>Journal of Materials Science</i> , 2021, 56, 1897-1918.	1.7	11
30	Surface engineering of layered SnO micro-plates for impressive high supercapacitor performance. <i>Materials Chemistry and Physics</i> , 2019, 238, 121889.	2.0	10
31	Inward growth of monolayer MoS ₂ single crystals from molten Na ₂ MoO ₄ droplets. <i>Materials Chemistry and Physics</i> , 2020, 240, 122203.	2.0	10
32	Nano-dendrite structured cobalt phosphide based hybrid supercapacitor with high energy storage and cycling stability. <i>Nanotechnology</i> , 2022, 33, 085403.	1.3	10
33	Mechanism of insulator-to-metal transition in heavily Nb doped anatase TiO ₂ . <i>Materials Research Express</i> , 2014, 1, 015911.	0.8	9
34	Well-ordered vertically aligned ZnO/CdS core/shell nanowires with enhanced photocatalytic performance. <i>Surface and Coatings Technology</i> , 2017, 320, 467-471.	2.2	9
35	Origin of high hydrogen evolution activity on InSe nanoribbons: A first-principles study. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24174-24183.	3.8	9
36	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.	3.1	9

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37	Strain effect on electronic structure of two-dimensional $\hat{1}^3$ -InSe nanosheets. Applied Physics Express, 2017, 10, 125202.	1.1	8
38	Defect-mediated strong exciton-phonon coupling between flower-like WS ₂ film with vicinity layers. Journal of Luminescence, 2020, 226, 117483.	1.5	8
39	Effect of morphology and stacking on atomic interaction and magnetic characteristics in two-dimensional H-phase VS ₂ few layers. Journal of Materials Science, 2022, 57, 5873-5884.	1.7	8
40	The Magnetic Proximity Effect Induced Large Valley Splitting in 2D InSe/Fel ₂ Heterostructures. Nanomaterials, 2020, 10, 1642.	1.9	7
41	A 2D Rashba electron gas with large spin splitting in Janus structures of SnPbO ₂ . Physical Chemistry Chemical Physics, 2020, 22, 11409-11416.	1.3	7
42	Atomically dispersed low-cost transition metals catalyze efficient hydrogen evolution on two-dimensional SnO nanosheets. International Journal of Hydrogen Energy, 2021, 46, 28602-28612.	3.8	7
43	Role of surface stoichiometry on the interfacial electron behavior at Ni/TiO ₂ (001) interfaces. Materials Chemistry and Physics, 2012, 133, 871-875.	2.0	6
44	Effect of growth rate on the structure and physical properties of Mo doped ZnO films. Superlattices and Microstructures, 2016, 99, 175-181.	1.4	5
45	Tunable magnetic coupling and high Curie temperature of two-dimensional PtBr ₃ via van der waals heterostructures. Applied Surface Science, 2022, 572, 151478.	3.1	5
46	Competitive Growth Mechanism of WS ₂ /MoS ₂ Vertical Heterostructures at High Temperature. Physica Status Solidi (B): Basic Research, 2017, 254, 1700219.	0.7	4
47	Prediction of directional magnetic-exchange coupling in Mn doped $\hat{1}^3$ -InSe monolayer. Results in Physics, 2019, 14, 102416.	2.0	3
48	Surface Science Studies of Metal Oxide Gas Sensing Materials. , 2013, , 35-67.		2
49	Effect of inplane strain on the electronic structure of mono- and bilayer black phosphorus. Physica Status Solidi (B): Basic Research, 2016, 253, 1729-1733.	0.7	2
50	Tungsten and nitrogen co-doped TiO ₂ nanobelts with significant visible light photoactivity. Surface and Interface Analysis, 2018, 50, 146-153.	0.8	2
51	Editorial: Visible Light-Responsive Photocatalysts for Energy Production. Frontiers in Chemistry, 2019, 7, 304.	1.8	2
52	Strong valley splitting in d ⁰ two-dimensional SnO induced by magnetic proximity effect. Nanotechnology, 2021, 32, 225201.	1.3	1
53	Subsurface growth of ultrathin Ni films on Cu(001) surfaces: Photoemission singularity index study. Journal of Crystal Growth, 2016, 433, 160-164.	0.7	0