

Jiajun Wang

List of Publications by Year in descending order

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31
papers

1,151
citations

471509

17
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic mechanism for the hybrid g-C ₃ N ₄ /MoS ₂ nanocomposite. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7960-7966.	10.3	347
2	Band Structure Tuning of TiO ₂ for Enhanced Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7451-7457.	3.1	95
3	Tunable interlayer coupling and Schottky barrier in graphene and Janus MoSSe heterostructures by applying an external field. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24109-24116.	2.8	86
4	Single-layer cadmium chalcogenides: promising visible-light driven photocatalysts for water splitting. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17029-17036.	2.8	75
5	Single- and few-layer BiOI as promising photocatalysts for solar water splitting. <i>RSC Advances</i> , 2017, 7, 24446-24452.	3.6	59
6	A rechargeable electrochromic energy storage device enabling effective energy recovery. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6451-6459.	10.3	43
7	Interfacial coupling induced direct Z-scheme water splitting in metal-free photocatalyst: C ₃ N/g-C ₃ N ₄ heterojunctions. <i>Nanotechnology</i> , 2018, 29, 365401.	2.6	39
8	Hollow Co ₉ S ₈ /CdS Nanocages as Efficient Photocatalysts for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 2743-2751.	5.0	35
9	Double-hole codoped huge-gap semiconductor ZrO ₂ for visible-light photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17517-17524.	2.8	32
10	First-principles calculations of stability of graphene-like BC ₃ monolayer and its high-performance potassium storage. <i>Chinese Chemical Letters</i> , 2021, 32, 900-905.	9.0	32
11	Two-dimensional blue-phase CX (X = S, Se) monolayers with high carrier mobility and tunable photocatalytic water splitting capability. <i>Chinese Chemical Letters</i> , 2021, 32, 1977-1982.	9.0	31
12	Band structure engineering of anatase TiO ₂ by metal-assisted P-O coupling. <i>Journal of Chemical Physics</i> , 2014, 140, 174705.	3.0	29
13	Î ² -SnS/GaSe heterostructure: a promising solar-driven photocatalyst with low carrier recombination for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3443-3453.	10.3	28
14	Enhanced photoelectrochemical performance of anatase TiO ₂ for water splitting via surface codoping. <i>RSC Advances</i> , 2017, 7, 39877-39884.	3.6	25
15	Computational study of the electronic, optical and photocatalytic properties of single-layer hexagonal zinc chalcogenides. <i>Computational Materials Science</i> , 2018, 150, 432-438.	3.0	24
16	Computational prediction of Mo ₂ @g-C ₆ N ₆ monolayer as an efficient electrocatalyst for N ₂ reduction. <i>Chinese Chemical Letters</i> , 2022, 33, 4623-4627.	9.0	24
17	Anatase TiO ₂ codoping with sulfur and acceptor IIB metals for water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13050-13057.	7.1	22
18	Thgraphene: a novel two-dimensional carbon allotrope as a potential multifunctional material for electrochemical water splitting and potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9848-9857.	10.3	20

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19	C ₇ N ₆ /Sc ₂ CCl ₂ Weak van der Waals Heterostructure: A Promising Visible-Light-Driven Z-Scheme Water Splitting Photocatalyst with Interface Ultrafast Carrier Recombination. Journal of Physical Chemistry Letters, 2022, 13, 1473-1479.	4.6	16
20	CuS co-catalyst modified hydrogenated SrTiO ₃ nanoparticles as an efficient photocatalyst for H ₂ evolution. Dalton Transactions, 2021, 50, 7768-7775.	3.3	15
21	Achieving indirect-to-direct band gap transition and enhanced photocatalytic performance in blue phosphorene through doping and strain. International Journal of Quantum Chemistry, 2020, 120, e26230.	2.0	14
22	Double-hole-mediated coupling of anionic dopants in perovskite NaNbO ₃ for efficient solar water splitting. International Journal of Quantum Chemistry, 2019, 119, e25930.	2.0	11
23	Sodium tungsten bronze-supported Pt electrocatalysts for the high-performance hydrogen evolution reaction. Catalysis Science and Technology, 2022, 12, 4498-4510.	4.1	11
24	NiO nanobelts with exposed {110} crystal planes as an efficient electrocatalyst for the oxygen evolution reaction. Physical Chemistry Chemical Physics, 2022, 24, 6087-6092.	2.8	10
25	Morphology Controllable Fabrication of Tungsten Oxide for Enhanced Photocatalytic Performance. Catalysis Surveys From Asia, 2021, 25, 334-345.	2.6	8
26	Computational Identification of B substitutional doped C ₉ N ₄ monolayer for electrocatalytic N ₂ evolution. Physical Chemistry Chemical Physics, 2022, 24, 6087-6092.	2.0	8
27	Crystal structure of an oxalate-bridged tetranuclear 8-hydroxyquinoline Zn(II) cluster: [Zn ₄ Q ₆ (Ox)] _{0.5} n. Journal of the Serbian Chemical Society, 2011, 76, 529-537.	0.8	4
28	Okra-like hollow Cu _{0.15} -CoP/Co ₃ O ₄ @CC nanotube arrays catalyst for overall water splitting. International Journal of Hydrogen Energy, 2022, 47, 7168-7179.	7.1	3
29	Hybrid density functional study on band structure engineering of ZnS(110) surface by anion-cation codoping for overall water splitting. New Journal of Chemistry, 0, , .	2.8	2
30	Theoretical insights into the diverse and tunable charge transport behavior of stilbene-based single-molecule junctions. Chemical Physics, 2022, 556, 111478.	1.9	2
31	Synthesis, crystal structure and theoretical calculation of triphenyltin (IV) polymer based on 2,4-dichlorophenylacrylic acid. Inorganic and Nano-Metal Chemistry, 2020, 50, 187-193.	1.6	1