Jiajun Wang

List of Publications by Year
in descending order

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	Î²-SnS/GaSe heterostructure: a promising solar-driven photocatalyst with low carrier recombination for overall water splitting. Journal of Materials Chemistry A, 2022, 10, 3443-3453.	10.3	28
2	Okra-like hollow Cu0.15-CoP/Co3O4@CC nanotube arrays catalyst for overall water splitting. International Journal of Hydrogen Energy, 2022, 47, 7168-7179.	7.1	3
3	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
4	C₇N₆/Sc₂CCl₂ Weak van der Waals Heterostructure: A Promising Visible-Light-Driven <i>Z</i>-Scheme Water Splitting Photocatalyst with Interface Ultrafast Carrier Recombination. Journal of Physical Chemistry Letters, 2022, 13, 1473-1479.	4.6	16
5	Thgraphene: a novel two-dimensional carbon allotrope as a potential multifunctional material for electrochemical water splitting and potassium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 9848-9857.	10.3	20
6	Theoretical insights into the diverse and tunable charge transport behavior of stilbene-based single-molecule junctions. Chemical Physics, 2022, 556, 111478.	1.9	2
7	Computational prediction of Mo2@g-C6N6 monolayer as an efficient electrocatalyst for N2 reduction. Chinese Chemical Letters, 2022, 33, 4623-4627.	9.0	24
8	Sodium tungsten bronze-supported Pt electrocatalysts for the high-performance hydrogen evolution reaction. Catalysis Science and Technology, 2022, 12, 4498-4510.	4.1	11
9	First-principles calculations of stability of graphene-like BC3 monolayer and its high-performance potassium storage. Chinese Chemical Letters, 2021, 32, 900-905.	9.0	32
10	Two-dimensional blue-phase CX (X = S, Se) monolayers with high carrier mobility and tunable photocatalytic water splitting capability. Chinese Chemical Letters, 2021, 32, 1977-1982.	9.0	31
11	CuS co-catalyst modified hydrogenated SrTiO₃ nanoparticles as an efficient photocatalyst for H₂ evolution. Dalton Transactions, 2021, 50, 7768-7775.	3.3	15
12	Hollow Co₉S₈/CdS Nanocages as Efficient Photocatalysts for Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 2743-2751.	5.0	35
13	Morphology Controllable Fabrication of Tungsten Oxide for Enhanced Photocatalytic Performance. Catalysis Surveys From Asia, 2021, 25, 334-345.	2.6	8
14	Computational identification of B substitutional doped C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mn>9</mml:mn></mml:msub></mml:math>N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math> monolayer for electrocatalytic N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:msub><mml:mrow /><mml:	2.0	8
15	A rechargeable electrochromic energy storage device enabling effective energy recovery. Journal of Materials Chemistry A, 2021, 9, 6451-6459.	10.3	43
16	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
17	Achieving indirectâ€toâ€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
18	Doubleâ€holeâ€mediated coupling of anionic dopants in perovskite NaNbO₃ for efficient solar water splitting. International Journal of Quantum Chemistry, 2019, 119, e25930.	2.0	11

#	Article	IF	Citations
19	Computational study of the electronic, optical and photocatalytic properties of single-layer hexagonal zinc chalcogenides. Computational Materials Science, 2018, 150, 432-438.	3.0	24
20	Tunable interlayer coupling and Schottky barrier in graphene and Janus MoSSe heterostructures by applying an external field. Physical Chemistry Chemical Physics, 2018, 20, 24109-24116.	2.8	86
21	Interfacial coupling induced direct Z-scheme water splitting in metal-free photocatalyst: C₃N/g-C₃N₄ heterojunctions. Nanotechnology, 2018, 29, 365401.	2.6	39
22	Single- and few-layer BiOI as promising photocatalysts for solar water splitting. RSC Advances, 2017, 7, 24446-24452.	3.6	59
23	Enhanced photoelectrochemical performance of anatase TiO₂ for water splitting via surface codoping. RSC Advances, 2017, 7, 39877-39884.	3.6	25
24	Single-layer cadmium chalcogenides: promising visible-light driven photocatalysts for water splitting. Physical Chemistry Chemical Physics, 2016, 18, 17029-17036.	2.8	75
25	Anatase TiO2 codoping with sulfur and acceptor IIB metals for water splitting. International Journal of Hydrogen Energy, 2016, 41, 13050-13057.	7.1	22
26	Double-hole codoped huge-gap semiconductor ZrO₂ for visible-light photocatalysis. Physical Chemistry Chemical Physics, 2016, 18, 17517-17524.	2.8	32
27	Band structure engineering of anatase TiO2 by metal-assisted P-O coupling. Journal of Chemical Physics, 2014, 140, 174705.	3.0	29
28	Enhanced photocatalytic mechanism for the hybrid g-C₃N₄/MoS₂ nanocomposite. Journal of Materials Chemistry A, 2014, 2, 7960-7966.	10.3	347
29	Band Structure Tuning of TiO₂ for Enhanced Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2014, 118, 7451-7457.	3.1	95
30	Crystal structure of an oxalate-bridged tetranuclear 8-hydroxyquinoline Zn(II) cluster: [Zn4Q6(Ox)]0.5n. Journal of the Serbian Chemical Society, 2011, 76, 529-537.	0.8	4
31	Hybrid density functional study on band structure engineering of ZnS(110) surface by anionâ€“cation codoping for overall water splitting. New Journal of Chemistry, 0, , .	2.8	2