Wei Chen

List of Publications by Year
in descending order

48 papers	10,047 citations	159525 30 h-index	206029 48 g-index
48 all docs	48 docs citations	48 times ranked	13557 citing authors

#	Article	IF	Citations
1	Commentary: The Materials Project: A materials genome approach to accelerating materials innovation. APL Materials, 2013, 1, .	2.2	6,913
2	Evidence for the Active Species Involved in the Photodegradation Process of Methyl Orange on TiO₂. Journal of Physical Chemistry C, 2012, 116, 3552-3560.	1.5	314
3	Novel mesoporous P-doped graphitic carbon nitride nanosheets coupled with ZnIn₂S₄nanosheets as efficient visible light driven heterostructures with remarkably enhanced photo-reduction activity. Nanoscale, 2016, 8, 3711-3719.	2.8	223
4	Direct Z-scheme 2D/2D MnIn2S4/g-C3N4 architectures with highly efficient photocatalytic activities towards treatment of pharmaceutical wastewater and hydrogen evolution. Chemical Engineering Journal, 2019, 359, 244-253.	6.6	194
5	Direct Z-scheme 1D/2D WO2.72/ZnIn2S4 hybrid photocatalysts with highly-efficient visible-light-driven photodegradation towards tetracycline hydrochloride removal. Journal of Hazardous Materials, 2020, 384, 121308.	6.5	171
6	In situ fabrication of novel Z-scheme Bi 2 WO 6 quantum dots/g-C 3 N 4 ultrathin nanosheets heterostructures with improved photocatalytic activity. Applied Surface Science, 2015, 355, 379-387.	3.1	141
7	Step-scheme WO3/CdIn2S4 hybrid system with high visible light activity for tetracycline hydrochloride photodegradation. Applied Surface Science, 2021, 535, 147682.	3.1	122
8	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. Composites Part B: Engineering, 2019, 177, 107377.	5.9	117
9	Two-dimensional mesoporous g-C 3 N 4 nanosheet-supported MgIn 2 S 4 nanoplates as visible-light-active heterostructures for enhanced photocatalytic activity. Journal of Catalysis, 2017, 349, 8-18.	3.1	113
10	Accelerated photocatalytic degradation of tetracycline hydrochloride over CuAl2O4/g-C3N4 p-n heterojunctions under visible light irradiation. Separation and Purification Technology, 2021, 277, 119461.	3.9	110
11	Hierarchical CdIn2S4 microspheres wrapped by mesoporous g-C3N4 ultrathin nanosheets with enhanced visible light driven photocatalytic reduction activity. Journal of Hazardous Materials, 2016, 320, 529-538.	6.5	102
12	Multifunctional graphene-based nano-additives toward high-performance polymer nanocomposites with enhanced mechanical, thermal, flame retardancy and smoke suppressive properties. Chemical Engineering Journal, 2021, 410, 127590.	6.6	101
13	Direct Z-scheme CdFe2O4/g-C3N4 hybrid photocatalysts for highly efficient ceftiofur sodium photodegradation. Journal of Materials Science and Technology, 2020, 56, 133-142.	5.6	100
14	NbS₂ Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li⁺ and Na⁺ Storage. ACS Nano, 2017, 11, 10599-10607.	7.3	95
15	Efficient and stable charge transfer channels for photocatalytic water splitting activity of CdS without sacrificial agents. Journal of Materials Chemistry A, 2020, 8, 20963-20969.	5.2	95
16	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO₄ Surfaces for Photoelectrochemical Applications. ACS Applied Materials & Interfaces, 2018, 10, 5475-5484.	4.0	93
17	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO₄ Anode with Oxygen Vacancy. Journal of Physical Chemistry C, 2017, 121, 18702-18709.	1.5	89
18	Fabrication of direct Z-scheme FeIn2S4/Bi2WO6 hierarchical heterostructures with enhanced photocatalytic activity for tetracycline hydrochloride photodagradation. Ceramics International, 2021, 47, 6318-6328.	2.3	69

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19	Boosting the catalytic activity of a step-scheme In2O3/ZnIn2S4 hybrid system for the photofixation of nitrogen. Chinese Journal of Catalysis, 2022, 43, 265-275.	6.9	67
20	A novel yet simple strategy to fabricate visible light responsive C,N-TiO₂/g-C₃N₄ heterostructures with significantly enhanced photocatalytic hydrogen generation. RSC Advances, 2015, 5, 101214-101220.	1.7	63
21	Highly efficient visible-light-driven photocatalytic hydrogen evolution by all-solid-state Z-scheme CdS/QDs/ZnIn2S4 architectures with MoS2 quantum dots as solid-state electron mediator. Applied Surface Science, 2020, 504, 144406.	3.1	61
22	One-pot hydrothermal route to synthesize the ZnIn2S4/g-C3N4 composites with enhanced photocatalytic activity. Journal of Materials Science, 2015, 50, 8142-8152.	1.7	56
23	Fabrication of Bi2MoO6 nanoplates hybridized with g-C3N4 nanosheets as highly efficient visible light responsive heterojunction photocatalysts for Rhodamine B degradation. Materials Science in Semiconductor Processing, 2015, 35, 45-54.	1.9	53
24	Scaleâ€Up of BiVO₄ Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. Energy Technology, 2018, 6, 100-109.	1.8	49
25	Au/ZnO nanoarchitectures with Au as both supporter and antenna of visible-light. Applied Surface Science, 2017, 392, 616-623.	3.1	48
26	ZnIn 2 S 4 hybrid with MoS 2 : A non-noble metal photocatalyst with efficient photocatalytic activity for hydrogen evolution. Powder Technology, 2017, 315, 157-162.	2.1	47
27	Self-assembled MoS₂-GO Framework as an Efficient Cocatalyst of CuInZnS for Visible-Light Driven Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 4671-4679.	3.2	44
28	Enhanced Charge Transport and Increased Active Sites on Î±-Fe₂O₃ (110) Nanorod Surface Containing Oxygen Vacancies for Improved Solar Water Oxidation Performance. ACS Omega, 2018, 3, 14973-14980.	1.6	36
29	Hydrothermal route to synthesize helical CdS@ZnIn2S4 core-shell heterostructures with enhanced photocatalytic hydrogeneration activity. Ceramics International, 2019, 45, 1803-1811.	2.3	34
30	Synergistic effects of interface coupling and defect sites in WO3/InVO4 architectures for highly efficient nitrogen photofixation. Separation and Purification Technology, 2022, 290, 120875.	3.9	31
31	Nitrogen and sulfur dual-doped carbon nanotube derived from a thiazolothiazole based conjugated microporous polymer as efficient metal-free electrocatalysts for oxygen reduction reaction. Journal of Power Sources, 2020, 461, 228145.	4.0	29
32	Synthesis of homogeneous one-dimensional Ni x Cd1â^'x S nanorods with enhanced visible-light response by ethanediamine-assisted decomposition of complex precursors. Journal of Materials Science, 2015, 50, 3920-3928.	1.7	28
33	Well-dispersed ultrafine nitrogen-doped TiO 2 with polyvinylpyrrolidone (PVP) acted as N-source and stabilizer for water splitting. Journal of Energy Chemistry, 2016, 25, 1-9.	7.1	28
34	Hybrid of AgInZnS and MoS 2 as efficient visible-light driven photocatalyst for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 12254-12261.	3.8	26
35	Mesoporous Bi2MoO6 quasi-nanospheres anchored on activated carbon cloth for flexible all-solid-state supercapacitors with enhanced energy density. Journal of Power Sources, 2020, 463, 228202.	4.0	24
36	Fabrication of highly visible light sensitive graphite-like C3N4 hybridized with Zn0.28Cd0.72S heterjunctions photocatalyst for degradation of organic pollutants. Journal of Environmental Chemical Engineering, 2014, 2, 1889-1897.	3.3	22

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37	The Influence of Ti Doping on Morphology and Photoelectrochemical Properties of Hematite Grown from Aqueous Solution for Water Splitting. Energy Technology, 2018, 6, 2188-2199.	1.8	18
38	Flower-like ZnIn2S4 microspheres with highly efficient catalytic activity for visible-light-driven sulfamethoxazole photodegradation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 643, 128779.	2.3	18
39	Ultrasound-assisted growth of Zn0.2Cd0.8S nanoparticles on mesoporous P-doped graphitic carbon nitride nanosheets for superior photocatalytic activities. Journal of Alloys and Compounds, 2017, 690, 503-511.	2.8	17
40	Mesoporous g-C3N4 ultrathin nanosheets coupled with QDs self-decorated SnIn4S8 homojunctions towards highly efficient photocatalytic functional transformation. Journal of Alloys and Compounds, 2019, 809, 151859.	2.8	17
41	Titania-on-gold nanoarchitectures for visible-light-driven hydrogen evolution from water splitting. Journal of Materials Science, 2016, 51, 6987-6997.	1.7	15
42	Catalytically Active Sites on Ni5P4 for Efficient Hydrogen Evolution Reaction From Atomic Scale Calculation. Frontiers in Chemistry, 2019, 7, 444.	1.8	15
43	Biomolecule-assisted solvothermal synthesis and enhanced visible light photocatalytic performance of Bi2S3/BiOCl composites. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 765-772.	0.4	14
44	Mechanistic Study of Monolayer NiP₂ (100) toward Solar Hydrogen Production. Solar Rrl, 2020, 4, 1900360.	3.1	8
45	Stable Active Sites on Ni 12 P 5 Surfaces for the Hydrogen Evolution Reaction. Energy Technology, 2019, 7, 1900013.	1.8	7
46	Fast preparation of fluorescent carbon nanoparticles from Î²-cyclodextrin via precursor design treatment. Materials Letters, 2015, 139, 122-125.	1.3	6
47	Several recent designs or choices of nanomaterials for photocatalysis: Ag/AgCl composite, silicate and Bi2MoO6. SPR Nanoscience, 2016, , 211-275.	0.3	3
48	A new strategy to immobilize molecular Fe sites into a cationic polymer to fabricate an oxygen reduction catalyst. Electrochemistry Communications, 2020, 117, 106781.	2.3	1