

Xiao Wei

List of Publications by Year in descending order

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45
papers

2,358
citations

236925

25
h-index

214800

47
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docs citations

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times ranked

4420
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-Coated V_2O_5 Nanocrystals as High Performance Cathode Material for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2011, 23, 5290-5292.	6.7	230
2	Novel $Bi_2S_3/Bi_2O_2CO_3$ heterojunction photocatalysts with enhanced visible light responsive activity and wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4208.	10.3	203
3	MoO_2/Mo_2C Heteronanotubes Function as High-Performance Li-ion Battery Electrode. <i>Advanced Functional Materials</i> , 2014, 24, 3399-3404.	14.9	185
4	Effect of Heterojunction on the Behavior of Photogenerated Charges in $Fe_3O_4@Fe_2O_3$ Nanoparticle Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8637-8642.	3.1	112
5	Nitrogen-doped graphene microtubes with opened inner voids: Highly efficient metal-free electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016, 9, 2606-2615.	10.4	92
6	Sol-gel preparation of efficient red phosphor $Mg_2TiO_4:Mn^{4+}$ and XAFS investigation on the substitution of Mn^{4+} for Ti^{4+} . <i>Journal of Materials Chemistry C</i> , 2013, 1, 4327.	5.5	90
7	Nitrogen-doped carbon nets with micro/mesoporous structures as electrodes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16698-16705.	10.3	88
8	Oxygen Vacancy Engineering of Co_3O_4 Nanocrystals through Coupling with Metal Support for Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 2875-2879.	6.8	88
9	Lithiation mechanism of hierarchical porous MoO_2 nanotubes fabricated through one-step carbothermal reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 80-86.	10.3	84
10	A Composite of Carbon-Wrapped Mo_2C Nanoparticle and Carbon Nanotube Formed Directly on Ni Foam as a High-Performance Binder-Free Cathode for Li-ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 8514-8520.	14.9	83
11	A study of the dynamic properties of photo-induced charge carriers at nanoporous TiO_2 /conductive substrate interfaces by the transient photovoltage technique. <i>Nanotechnology</i> , 2008, 19, 275707.	2.6	82
12	Research on the Effect of Different Sizes of ZnO Nanorods on the Efficiency of TiO_2 -Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18417-18422.	3.1	79
13	Construction of Three-Dimensional Uranyl-Organic Frameworks with Benzenetricarboxylate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3780-3788.	2.0	75
14	Random Organic Nanolaser Arrays for Cryptographic Primitives. <i>Advanced Materials</i> , 2019, 31, e1807880.	21.0	72
15	Uniform hierarchical MoO_2 /carbon spheres with high cycling performance for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12038.	10.3	62
16	Nitrogen-doped carbon nanotube sponge with embedded Fe/Fe_3C nanoparticles as binder-free cathodes for high capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17473-17480.	10.3	60
17	In situ catalytic growth of large-area multilayered graphene/ MoS_2 heterostructures. <i>Scientific Reports</i> , 2014, 4, 4673.	3.3	58
18	Toward Lower Overpotential through Improved Electron Transport Property: Hierarchically Porous CoN Nanorods Prepared by Nitridation for Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2016, 16, 5902-5908.	9.1	43

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19	N-type hedgehog-like CuBi_2O_4 hierarchical microspheres: room temperature synthesis and their photoelectrochemical properties. <i>CrystEngComm</i> , 2015, 17, 4019-4025.	2.6	39
20	General transfer hydrogenation by activating ammonia-borane over cobalt nanoparticles. <i>RSC Advances</i> , 2015, 5, 102736-102740.	3.6	38
21	Activating Oxygen Molecules over Carbonyl-Modified Graphitic Carbon Nitride: Merging Supramolecular Oxidation with Photocatalysis in a Metal-Free Catalyst for Oxidative Coupling of Amines into Imines. <i>ChemCatChem</i> , 2016, 8, 3441-3445.	3.7	35
22	Free-standing hybrid porous membranes integrated with transition metal nitride and carbide nanoparticles for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2019, 378, 122208.	12.7	35
23	Converting waste paper to multifunctional graphene-decorated carbon paper: from trash to treasure. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13926-13932.	10.3	34
24	Ultra-durable two-electrode Zn-air secondary batteries based on bifunctional titania nanocatalysts: a Co^{2+} dopant boosts the electrochemical activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7841-7847.	10.3	30
25	Boosting the electrochemical performance of Li-O ₂ batteries with DPPH redox mediator and graphene-luteolin-protected lithium anode. <i>Energy Storage Materials</i> , 2020, 31, 373-381.	18.0	28
26	Enhanced oxygen electroreduction over nitrogen-free carbon nanotube-supported CuFeO_2 nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4331-4336.	10.3	27
27	Cerium vanadate nanoparticles as a new anode material for lithium ion batteries. <i>RSC Advances</i> , 2013, 3, 7403.	3.6	24
28	Sodium phthalate as an anode material for sodium ion batteries: effect of the bridging carbonyl group. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8469-8475.	10.3	23
29	3D ordered macroporous MoO_2 attached on carbonized cloth for high performance free-standing binder-free lithium-sulfur electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24524-24531.	10.3	21
30	Light-Driven Preparation, Microstructure, and Visible-Light Photocatalytic Property of Porous Carbon-Doped TiO_2 . <i>International Journal of Photoenergy</i> , 2012, 2012, 1-9.	2.5	19
31	Direct observation of charge transfer between molecular heterojunctions based on inorganic semiconductor clusters. <i>Chemical Science</i> , 2020, 11, 4085-4096.	7.4	16
32	Highly Ordered Semiconducting Polymer Arrays for Sensitive Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15829-15836.	8.0	15
33	Chemical "top-down" synthesis of amphiphilic superparamagnetic Fe_3O_4 nanobelts from exfoliated FeOCl layers. <i>Dalton Transactions</i> , 2014, 43, 16173-16177.	3.3	13
34	In situ growth of ultrafine tin oxide nanocrystals embedded in graphitized carbon nanosheets for use in high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6960-6965.	10.3	13
35	$\text{Cu}_2\text{SnSe}_3/\text{CNTs}$ Composite as a Promising Anode Material for Sodium-ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 91-96.	2.6	12
36	Rubber-based carbon electrode materials derived from dumped tires for efficient sodium-ion storage. <i>Dalton Transactions</i> , 2018, 47, 4885-4892.	3.3	11

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37	Trapping oxygen in hierarchically porous carbon nano-nets: graphitic nitrogen dopants boost the electrocatalytic activity. RSC Advances, 2016, 6, 56765-56771.	3.6	8
38	Construction of Large Non-Localized π -Electron System for Enhanced Sodium-Ion Storage. Small, 2022, 18, e2105825.	10.0	7
39	Design of Functional Carbon Composite Materials for Energy Conversion and Storage. Chemical Research in Chinese Universities, 2022, 38, 677-687.	2.6	7
40	Supramolecular nano-assemblies with tailorable surfaces: recyclable hard templates for engineering hollow nanocatalysts. Science China Materials, 2014, 57, 7-12.	6.3	6
41	Towards high performance lithium-oxygen batteries: Co ₃ O ₄ -NiO heterostructure induced preferential growth of ultrathin Li ₂ O ₂ film. Journal of Alloys and Compounds, 2021, 863, 158073.	5.5	6
42	Formation of a built-in field at the porphyrin/ITO interface directly proven by the time-resolved photovoltage technique. Physical Chemistry Chemical Physics, 2015, 17, 5202-5206.	2.8	4
43	Rational Design of Zirconium-doped Titania Photocatalysts with Synergistic Brønsted Acidity and Photoactivity. ChemSusChem, 2016, 9, 2759-2764.	6.8	4
44	Top-down fabrication of hierarchical nanocubes on nanosheets composite for high-rate lithium storage. Dalton Transactions, 2018, 47, 16155-16163.	3.3	4
45	Impact of photogenerated charge behaviors on luminescence of Eu ³⁺ -incorporated microporous titanasilicate ETS-10. Science China Chemistry, 2013, 56, 428-434.	8.2	2