

Debao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,956
citations

279798

23
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

2710
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO ₂ reduction and H ₂ O oxidation. <i>Nature Communications</i> , 2020, 11, 3043.	12.8	200
2	Fabrication of Hollow Spheres and Thin Films of Nickel Hydroxide and Nickel Oxide with Hierarchical Structures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1125-1129.	2.6	186
3	Sandwich-like Ni ₂ P nanoarray/nitrogen-doped graphene nanoarchitecture as a high-performance anode for sodium and lithium ion batteries. <i>Energy Storage Materials</i> , 2018, 15, 234-241.	18.0	179
4	NiS _{1.03} Hollow Spheres and Cages as Superhigh Rate Capacity and Stable Anode Materials for Half/Full Sodium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 8277-8287.	14.6	127
5	High-Performance Asymmetric Electrochromic-Supercapacitor Device Based on Poly(indole-6-carboxylic acid)/TiO ₂ Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6491-6501.	8.0	117
6	Rational fabrication of CoS ₂ /Co ₄ S ₃ @N-doped carbon microspheres as excellent cycling performance anode for half/full sodium ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 679-686.	18.0	111
7	A one-step deep eutectic solvent assisted synthesis of carbon nitride/metal oxide composites for photocatalytic nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5719-5725.	10.3	105
8	Controllable Synthesis of ZnO Nanorod and Prism Arrays in a Large Area. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12697-12700.	2.6	102
9	In Situ Growth of Ag Nanodots Decorated Cu ₂ O Porous Nanobelts Networks on Copper Foam for Efficient HER Electrocatalysis. <i>Small</i> , 2019, 15, e1804268.	10.0	82
10	High Performance Multicolor Intelligent Supercapacitor and Its Quantitative Monitoring of Energy Storage Level by Electrochromic Parameters. <i>ACS Applied Energy Materials</i> , 2020, 3, 2727-2736.	5.1	73
11	Ultrafine Co _{1-x} S nanoparticles embedded in a nitrogen-doped porous carbon hollow nanosphere composite as an anode for superb sodium-ion batteries and lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 2804-2811.	5.6	69
12	Fabricating Amorphous g-C ₃ N ₄ /ZrO ₂ Photocatalysts by One-Step Pyrolysis for Solar-Driven Ambient Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44360-44365.	8.0	57
13	Crystal phase- and morphology-controlled synthesis of MoO ₃ materials. <i>CrystEngComm</i> , 2017, 19, 1479-1485.	2.6	51
14	Iron Selenide-Based Heterojunction Construction and Defect Engineering for Fast Potassium/Sodium-Ion Storage. <i>Small</i> , 2022, 18, e2107252.	10.0	46
15	Polymeric Carbon Nitride-Derived Photocatalysts for Water Splitting and Nitrogen Fixation. <i>Small</i> , 2021, 17, e2005149.	10.0	45
16	Phosphorus-modified Fe ₄ N@N,P co-doped graphene as an efficient sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6538-6546.	10.3	37
17	Yolk-shell structured CoSe ₂ /C nanospheres as multifunctional anode materials for both full/half sodium-ion and full/half potassium-ion batteries. <i>Nanoscale</i> , 2021, 13, 10385-10392.	5.6	36
18	A facile and controllable, deep eutectic solvent aided strategy for the synthesis of graphene encapsulated metal phosphides for enhanced electrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13455-13459.	10.3	34

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19	Morphology-controlled synthesis of Bi ₂ S ₃ microstructures. CrystEngComm, 2011, 13, 3087.	2.6	30
20	Space-confined growth of Bi ₂ Se ₃ nanosheets encapsulated in N-doped carbon shell lollipop-like composite for full/half potassium-ion and lithium-ion batteries. Nano Today, 2022, 43, 101408.	11.9	30
21	Self-assembled PANI/CeO ₂ /Ni(OH) ₂ hierarchical hybrid spheres with improved energy storage capacity for high-performance supercapacitors. Electrochimica Acta, 2021, 367, 137525.	5.2	28
22	Hierarchical hollow microspheres Na ₃ V ₂ (PO ₄) ₂ F ₃ C@rGO as high-performance cathode materials for sodium ion batteries. New Journal of Chemistry, 2020, 44, 12985-12992.	2.8	25
23	Design and in-situ synthesis of unique catalyst via embedding graphene oxide shell membrane in NiS ₂ for efficient hydrogen evolution. Applied Surface Science, 2020, 510, 145483.	6.1	25
24	Construction and electrochemical mechanism investigation of hierarchical core-shell like composite as high performance anode for potassium ion batteries. Nano Research, 2021, 14, 3552-3561.	10.4	21
25	Photogenerated Oxygen Vacancies in Hierarchical Ag/TiO ₂ Nanoflowers for Enhanced Photocatalytic Reactions. ACS Omega, 2020, 5, 13994-14005.	3.5	20
26	Design, controlled synthesis, and properties of 2D CeO ₂ /NiO heterostructure assemblies. CrystEngComm, 2017, 19, 7339-7346.	2.6	18
27	Solution processing of V ₂ VI ₃ chalcogenides with a deep eutectic solvent for enhanced visible-light-driven hydrogen production. Green Chemistry, 2018, 20, 5266-5270.	9.0	18
28	Low Temperature Electrochemical Deposition of Aluminum in Organic Bases/Thiourea-Based Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2018, 6, 15480-15486.	6.7	18
29	Facile synthesis of CeO ₂ decorated Ni(OH) ₂ hierarchical composites for enhanced electrocatalytic sensing of H ₂ O ₂ . RSC Advances, 2015, 5, 24101-24109.	3.6	15
30	Graphene oxide coupled high-index facets CdZnS with rich sulfur vacancies for synergistic boosting visible-light-catalytic hydrogen evolution in natural seawater: Experimental and DFT study. Journal of Colloid and Interface Science, 2022, 623, 34-43.	9.4	13
31	CeO ₂ decorated CuO hierarchical composites as inverse catalyst for enhanced CO oxidation. RSC Advances, 2016, 6, 102931-102937.	3.6	12
32	NiO nanosheets rooting into Ni-doped CeO ₂ microspheres for high performance of CO catalytic oxidation. Materials Letters, 2017, 198, 168-171.	2.6	10
33	Synthesis of Mono-Dispersed Mg(OH) ₂ Nanoflakelets. Journal of Dispersion Science and Technology, 2008, 29, 1010-1012.	2.4	6
34	Surfactant-Assisted Synthesis of Cube-Shaped PbTe and PbSe Nanocrystals. Journal of Dispersion Science and Technology, 2007, 28, 1197-1200.	2.4	4
35	Synthesis and optical property of ZnO nano-/micro-rods. Frontiers of Optoelectronics in China, 2011, 4, 156-160.	0.2	3
36	Shape controllable growth of PbS polyhedral crystals. Crystal Research and Technology, 2012, 47, 1008-1013.	1.3	3

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37	General Route to Synthesize Monodisperse Oxide (Hydroxide) Nanoparticles. Journal of Dispersion Science and Technology, 2009, 30, 336-339.	2.4	0