

Hua Cheng

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36
papers

1,028
citations

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h-index

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38
ext. papers

1,223
ext. citations

6.3
avg, IF

4.26
L-index

#	Paper	IF	Citations
36	A facile method to improve the high rate capability of Co ₃ O ₄ nanowire array electrodes. <i>Nano Research</i> , 2010 , 3, 895-901	10	153
35	Bimetallic organic frameworks derived CuNi/carbon nanocomposites as efficient electrocatalysts for oxygen reduction reaction. <i>Science China Materials</i> , 2017 , 60, 654-663	7.1	93
34	Facile electrodeposition of 3D concentration-gradient Ni-Co hydroxide nanostructures on nickel foam as high performance electrodes for asymmetric supercapacitors. <i>Nano Research</i> , 2015 , 8, 2744-2754 ¹⁰	10	80
33	Sulfur-deficient MoS ₂ grown inside hollow mesoporous carbon as a functional polysulfide mediator. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12068-12074	13	77
32	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17954-17962	13	61
31	Flexible Membrane Consisting of MoP Ultrafine Nanoparticles Highly Distributed Inside N and P Codoped Carbon Nanofibers as High-Performance Anode for Potassium-Ion Batteries. <i>Small</i> , 2020 , 16, e1905301	11	51
30	Understanding and suppressing side reactions in Li ⁺ batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2495-2510	7.8	46
29	One-pot scalable synthesis of Cu ₂ Fe ₂ O ₄ /graphene composites as anode materials for lithium-ion batteries with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13892	13	44
28	One-Pot Synthesis of Co-Doped VSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 644-653	6.1	41
27	Evaporation-induced synthesis of carbon-supported Fe ₃ O ₄ nanocomposites as anode material for lithium-ion batteries. <i>CrystEngComm</i> , 2013 , 15, 1324	3.3	38
26	A general aqueous sol-gel route to Ln ₂ Sn ₂ O ₇ nanocrystals. <i>Nanotechnology</i> , 2008 , 19, 025706	3.4	37
25	WS ₂ Nanosheets with Highly-Enhanced Electrochemical Activity by Facile Control of Sulfur Vacancies. <i>ChemCatChem</i> , 2019 , 11, 2667-2675	5.2	36
24	Rugated porous Fe ₃ O ₄ thin films as stable binder-free anode materials for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22692		29
23	Encapsulated MnO in N-doping carbon nanofibers as efficient ORR electrocatalysts. <i>Science China Materials</i> , 2017 , 60, 937-946	7.1	22
22	Cobalt-Vanadium Hydroxide Nanoneedles with a Free-Standing Structure as High-Performance Oxygen Evolution Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2019 , 6, 2050-2055	4.3	19
21	SnS/SnSb@C Nanofibers with Enhanced Cycling Stability via Vulcanization as an Anode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1098-1104	4.3	18
20	Rapid microwave-assisted refluxing synthesis of hierarchical mulberry-shaped Na ₃ V ₂ (PO ₄) ₂ O ₂ F@C as high performance cathode for sodium & lithium-ion batteries. <i>Science China Materials</i> , 2019 , 62, 474-486 ^{7.1}	7.1	18

19	Selective electrodeposition of Ni into the intertubular voids of anodic TiO ₂ nanotubes for improved photocatalytic properties. <i>Journal of Materials Research</i> , 2013 , 28, 405-410	2.5	16
18	Sol-gel synthesis and photoluminescence characterization of La ₂ Ti ₂ O ₇ :Eu ³⁺ nanocrystals. <i>Rare Metals</i> , 2011 , 30, 602-606	5.5	16
17	Facile synthesis of hierarchically structured manganese oxides as anode for lithium-ion batteries. <i>Journal of Central South University</i> , 2019 , 26, 1481-1492	2.1	15
16	Synthesis and characterization of Cu-Cr-O nanocomposites. <i>Central South University</i> , 2007 , 14, 291-295		15
15	An all-in-one supercapacitor working at sub-zero temperatures. <i>Science China Materials</i> , 2020 , 63, 660-666	6.1	12
14	Circular Plate-Based YBO ₃ :Eu ³⁺ Assemblies: Synthesis and Photoluminescence Properties. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 591-594	3.8	12
13	Co and N co-modified carbon nanotubes as efficient electrocatalyst for oxygen reduction reaction. <i>Rare Metals</i> , 2021 , 40, 90-95	5.5	12
12	Hydrothermal synthesis and energy storage performance of ultrafine Ce ₂ Sn ₂ O ₇ nanocubes. <i>Journal of Central South University</i> , 2019 , 26, 1416-1425	2.1	9
11	Ultrafine NaTi(PO) Nanoparticles Encapsulated in N-CNFs as Ultra-Stable Electrode for Sodium Storage. <i>Frontiers in Chemistry</i> , 2018 , 6, 270	5	8
10	Selective edge etching to improve the rate capability of Prussian blue analogues for sodium ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1361-1366	6.8	7
9	Si Wire Supported MnO/Al/Fluorocarbon 3D Core/Shell Nanoenergetic Arrays with Long-Term Storage Stability. <i>Scientific Reports</i> , 2017 , 7, 6678	4.9	7
8	Gradient TiO ₂ nanotube arrays. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1812-1814		7
7	Photonic porous silicon-based hybrid particles by soft-lithography. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1754-1758		6
6	Hierarchical Ultrafine Ni ₃ V ₂ O ₈ Nanoparticles Anchored on rGO as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1800784	3.5	6
5	Electrochemical Fabrication of Coaxial Wavy-Channel Ni ₃ VO(OH)/Ni Nanocomposites for High-Performance Supercapacitor Electrode Materials. <i>Energy Technology</i> , 2013 , 1, 478-483	3.5	5
4	Facile one-pot fabrication of Fe ₂ O ₃ nano-coffee beans by etching along [001] direction for high lithium storage. <i>Science China Materials</i> , 2017 , 60, 1187-1195	7.1	4
3	Anodic TiO ₂ -based porous photonic films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1389-1393	1.6	4
2	TiO ₂ Nanotubes: Selective Removal of the Outer Shells of Anodic TiO ₂ Nanotubes (Small 1/2013). <i>Small</i> , 2013 , 9, 36-36	11	2

1 High-performance 2.5 V aqueous asymmetric supercapacitor based on MnO₂ nanowire/hierarchical porous carbon composite. *Materials Technology*, 1-9

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