

Zailei Zhang

List of Publications by Year in descending order

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39
papers

2,538
citations

186265

28
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

4305
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally stable single atom Pt/m-Al ₂ O ₃ for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	12.8	545
2	Suppressing self-discharge of supercapacitors via electrorheological effect of liquid crystals. Nano Energy, 2018, 47, 43-50.	16.0	183
3	Scalable Synthesis of Interconnected Porous Silicon/Carbon Composites by the Rochow Reaction as High-Performance Anodes of Lithium Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 5165-5169.	13.8	175
4	Facile solvothermal synthesis of mesoporous manganese ferrite (MnFe ₂ O ₄) microspheres as anode materials for lithium-ion batteries. Journal of Colloid and Interface Science, 2013, 398, 185-192.	9.4	145
5	Platinum single-atom catalysts: a comparative review towards effective characterization. Catalysis Science and Technology, 2019, 9, 4821-4834.	4.1	122
6	Mesoporous CoFe ₂ O ₄ nanospheres cross-linked by carbon nanotubes as high-performance anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7444.	10.3	118
7	Carbon-coated porous silicon composites as high performance Li-ion battery anode materials: can the production process be cheaper and greener?. Journal of Materials Chemistry A, 2016, 4, 552-560.	10.3	88
8	Graphitized porous carbon microspheres assembled with carbon black nanoparticles as improved anode materials in Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 10161.	10.3	75
9	Multishelled Si@Cu Microparticles Supported on 3D Cu Current Collectors for Stable and Binder-free Anodes of Lithium-Ion Batteries. ACS Nano, 2018, 12, 3587-3599.	14.6	74
10	Yolk Bishell Mn _x Co _{1-x} Fe ₂ O ₄ Hollow Microspheres and Their Embedded Form in Carbon for Highly Reversible Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 6300-6309.	8.0	63
11	Preparation of hierarchical dandelion-like CuO microspheres with enhanced catalytic performance for dimethyldichlorosilane synthesis. Catalysis Science and Technology, 2012, 2, 1953.	4.1	62
12	Preparation of porous silicon/carbon microspheres as high performance anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 5859-5865.	10.3	60
13	In-Situ Capture of Mercury in Coal-Fired Power Plants Using High Surface Energy Fly Ash. Environmental Science & Technology, 2019, 53, 7913-7920.	10.0	56
14	Shape-controlled synthesis of Cu ₂ O microparticles and their catalytic performances in the Rochow reaction. Catalysis Science and Technology, 2012, 2, 1207.	4.1	54
15	High-frequency supercapacitors based on carbonized melamine foam as energy storage devices for triboelectric nanogenerators. Nano Energy, 2019, 55, 447-453.	16.0	54
16	Facile Solvothermal Synthesis of Porous Cubic Cu Microparticles as Copper Catalysts for Rochow Reaction. ACS Applied Materials & Interfaces, 2012, 4, 1295-1302.	8.0	48
17	Self-discharge of supercapacitors based on carbon nanotubes with different diameters. Electrochimica Acta, 2020, 357, 136855.	5.2	45
18	Flower-like CuO microspheres with enhanced catalytic performance for dimethyldichlorosilane synthesis. RSC Advances, 2012, 2, 2254.	3.6	44

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19	Amorphous silicon-carbon nanospheres synthesized by chemical vapor deposition using cheap methyltrichlorosilane as improved anode materials for Li-ion batteries. <i>Nanoscale</i> , 2013, 5, 5384.	5.6	44
20	One-dimensional Cu-based catalysts with layered Cu-Cu ₂ O-CuO walls for the Rochow reaction. <i>Nano Research</i> , 2016, 9, 1377-1392.	10.4	42
21	Triboelectric nanogenerators with simultaneous outputs in both single-electrode mode and freestanding-triboelectric-layer mode. <i>Nano Energy</i> , 2019, 66, 104169.	16.0	41
22	Synergistic effect in bimetallic copper-silver (Cu _x Ag) nanoparticles enhances silicon conversion in Rochow reaction. <i>RSC Advances</i> , 2015, 5, 54364-54371.	3.6	38
23	Preparation of porous carbon microspheres anode materials from fine needle coke powders for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 11115-11123.	3.6	35
24	Multiple transition metal oxide mesoporous nanospheres with controllable composition for lithium storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5041-5050.	10.3	29
25	Growth of linked silicon/carbon nanospheres on copper substrate as integrated electrodes for Li-ion batteries. <i>Nanoscale</i> , 2014, 6, 371-377.	5.6	29
26	Ultrafast lithium-ion capacitors for efficient storage of energy generated by triboelectric nanogenerators. <i>Energy Storage Materials</i> , 2020, 24, 297-303.	18.0	29
27	Scalable synthesis of porous silicon/carbon microspheres as improved anode materials for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 43114-43120.	3.6	28
28	Designed synthesis of MO _x (M = Zn, Fe, Sn, Ni, Mn, Co, Ce, Mg, Ag), Pt, and Au nanoparticles supported on hierarchical CuO hollow structures. <i>Nanoscale</i> , 2016, 8, 19684-19695.	5.6	20
29	Controllably oxidized copper flakes as multicomponent copper-based catalysts for the Rochow reaction. <i>RSC Advances</i> , 2014, 4, 7826.	3.6	18
30	Low-Cost Synthesis of Porous Silicon via Ferrite-Assisted Chemical Etching and Their Application as Si-Based Anodes for Li-Ion Batteries. <i>Advanced Electronic Materials</i> , 2015, 1, 1400059.	5.1	18
31	Mn _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles highly dispersed in porous carbon microspheres as high performance anode materials in Li-ion batteries. <i>Nanoscale</i> , 2014, 6, 6805.	5.6	14
32	Hydrogels with highly concentrated salt solution as electrolytes for solid-state supercapacitors with a suppressed self-discharge rate. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2966-2972.	10.3	14
33	Magnesium Anodes with Extended Cycling Stability for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806400.	14.9	12
34	Porous (CuO) _x ZnO hollow spheres as efficient Rochow reaction catalysts. <i>CrystEngComm</i> , 2016, 18, 2808-2819.	2.6	11
35	Diffusion-controlled synthesis of Cu-based for the Rochow reaction. <i>Science China Materials</i> , 2017, 60, 1215-1226.	6.3	9
36	High-performance nickel manganese ferrite/oxidized graphene composites as flexible and binder-free anodes for Li-ion batteries. <i>RSC Advances</i> , 2015, 5, 40018-40025.	3.6	8

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37	Synthesis of porous microspheres composed of graphitized carbon@amorphous silicon/carbon layers as high performance anode materials for Li-ion batteries. RSC Advances, 2014, 4, 55010-55015.	3.6	6
38	Ni _{0.33} Mn _{0.33} Co _{0.33} Fe ₂ O ₄ nanoparticles anchored on oxidized carbon nanotubes as advanced anode materials in Li-ion batteries. RSC Advances, 2014, 4, 33769-33775.	3.6	4
39	One-pot catalytic conversion of methanol to C ₆ –C ₂₁ hydrocarbons over bi-functional MFe ₂ O ₄ (M = Ni, Zn, Mn, Co) catalysts. RSC Advances, 2015, 5, 13374-13384.	3.6	2