Junhua Song

List of Publications by Year
in descending order

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48 papers	5,577 citations	101384 36 h-index	205818 48 g-index
49 all docs	49 docs citations	49 times ranked	8412 citing authors

#	Article	IF	Citations
1	Enhancing Chemical Interaction of Polysulfide and Carbon through Synergetic Nitrogen and Phosphorus Doping. ACS Sustainable Chemistry and Engineering, 2020, 8, 806-813.	3.2	11
2	Hierarchical porous silicon structures with extraordinary mechanical strength as high-performance lithium-ion battery anodes. Nature Communications, 2020, 11, 1474.	5.8	298
3	Optimized Al Doping Improves Both Interphase Stability and Bulk Structural Integrity of Ni-Rich NMC Cathode Materials. ACS Applied Energy Materials, 2020, 3, 3369-3377.	2.5	66
4	Stable Sodium Metal Batteries via Manipulation of Electrolyte Solvation Structure. Small Methods, 2020, 4, 1900856.	4.6	73
5	Controlling Surface Phase Transition and Chemical Reactivity of O3-Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. ACS Energy Letters, 2020, 5, 1718-1725.	8.8	64
6	Enhanced Stability of Li Metal Anodes by Synergetic Control of Nucleation and the Solid Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1901764.	10.2	108
7	A comparative study of pomegranate Sb@C yolkâ€“shell microspheres as Li and Na-ion battery anodes. Nanoscale, 2019, 11, 348-355.	2.8	45
8	Metalâ€“organic frameworks-based catalysts for electrochemical oxygen evolution. Materials Horizons, 2019, 6, 684-702.	6.4	149
9	Self-supporting lithium titanate nanorod/carbon nanotube/reduced graphene oxide flexible electrode for high performance hybrid lithium-ion capacitor. Journal of Alloys and Compounds, 2019, 790, 1157-1166.	2.8	13
10	Assembling Carbon Pores into Carbon Sheets: Rational Design of Three-Dimensional Carbon Networks for a Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2019, 11, 5911-5918.	4.0	24
11	Coreâ€“shell PdPb@Pd aerogels with multiply-twinned intermetallic nanostructures: facile synthesis with accelerated gelation kinetics and their enhanced electrocatalytic properties. Journal of Materials Chemistry A, 2018, 6, 7517-7521.	5.2	49
12	Porous Carbonâ€Hosted Atomically Dispersed Ironâ€“Nitrogen Moiety as Enhanced Electrocatalysts for Oxygen Reduction Reaction in a Wide Range of pH. Small, 2018, 14, e1703118.	5.2	117
13	Insights into the Electrochemical Reaction Mechanism of a Novel Cathode Material CuNi₂(PO₄)₂/C for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3522-3529.	4.0	7
14	Extremely Stable Sodium Metal Batteries Enabled by Localized High-Concentration Electrolytes. ACS Energy Letters, 2018, 3, 315-321.	8.8	373
15	Simultaneous Stabilization of LiNi_{0.76}Mn_{0.14}Co_{0.10}O₂ Cathode and Lithium Metal Anode by Lithium Bis(oxalato)borate as Additive. ChemSusChem, 2018, 11, 2211-2220.	3.6	89
16	Interphases in Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703082.	10.2	236
17	Self-supporting activated carbon/carbon nanotube/reduced graphene oxide flexible electrode for high performance supercapacitor. Carbon, 2018, 129, 236-244.	5.4	244
18	Ultrafine and highly disordered Ni2Fe1 nanofoams enabled highly efficient oxygen evolution reaction in alkaline electrolyte. Nano Energy, 2018, 44, 319-326.	8.2	118

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19	Tubular titanium oxide/reduced graphene oxide-sulfur composite for improved performance of lithium sulfur batteries. Carbon, 2018, 128, 63-69.	5.4	43
20	Catalytic Activity of Coâ€“X (X = S, P, O) and Its Dependency on Nanostructure/Chemical Composition in Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2018, 1, 7014-7021.	2.5	46
21	A novel approach to synthesize micrometer-sized porous silicon as a high performance anode for lithium-ion batteries. Nano Energy, 2018, 50, 589-597.	8.2	191
22	Lithiumâ€Pretreated Hard Carbon as Highâ€Performance Sodiumâ€Ion Battery Anodes. Advanced Energy Materials, 2018, 8, 1801441.	10.2	105
23	Hierarchically Porous Mâ€“Nâ€“C (M = Co and Fe) Singleâ€Atom Electrocatalysts with Robust MN_x Active Moieties Enable Enhanced ORR Performance. Advanced Energy Materials, 2018, 8, 1801956.	10.2	540
24	Drug-Derived Bright and Color-Tunable N-Doped Carbon Dots for Cell Imaging and Sensitive Detection of Fe³⁺ in Living Cells. ACS Applied Materials & Interfaces, 2017, 9, 7399-7405.	4.0	267
25	Water Splitting: Bimetallic Cobaltâ€Based Phosphide Zeolitic Imidazolate Framework: CoP_x Phaseâ€Dependent Electrical Conductivity and Hydrogen Atom Adsorption Energy for Efficient Overall Water Splitting (Adv. Energy Mater. 2/2017). Advanced Energy Materials, 2017, 7, .	10.2	1
26	Three-dimensional Nitrogen-Doped Reduced Graphene Oxide/Carbon Nanotube Composite Catalysts for Vanadium Flow Batteries. Electroanalysis, 2017, 29, 1469-1473.	1.5	28
27	Selfâ€Assembled Feâ€“Nâ€Doped Carbon Nanotube Aerogels with Singleâ€Atom Catalyst Feature as Highâ€Efficiency Oxygen Reduction Electrocatalysts. Small, 2017, 13, 1603407.	5.2	254
28	Nitrogen and Fluorineâ€Codoped Carbon Nanowire Aerogels as Metalâ€Free Electrocatalysts for Oxygen Reduction Reaction. Chemistry - A European Journal, 2017, 23, 10460-10464.	1.7	52
29	Metalâ€Organic Frameworkâ€Derived Nonâ€Precious Metal Nanocatalysts for Oxygen Reduction Reaction. Advanced Energy Materials, 2017, 7, 1700363.	10.2	297
30	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. Nano Research, 2017, 10, 1888-1895.	5.8	34
31	Low Pt-content ternary PdCuPt nanodendrites: an efficient electrocatalyst for oxygen reduction reaction. Nanoscale, 2017, 9, 1279-1284.	2.8	66
32	One-step synthesis of carbon nanosheet-decorated carbon nanofibers as a 3D interconnected porous carbon scaffold for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 23737-23743.	5.2	36
33	Two-Dimensional N,S-Codoped Carbon/Co₉S₈ Catalysts Derived from Co(OH)₂ Nanosheets for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 36755-36761.	4.0	45
34	Multifunctional SnO2/3D graphene hybrid materials for sodium-ion and lithium-ion batteries with excellent rate capability and long cycle life. Nano Research, 2017, 10, 4398-4414.	5.8	63
35	Yolk-shell structured Sb@C anodes for high energy Na-ion batteries. Nano Energy, 2017, 40, 504-511.	8.2	123
36	Tuning the structure and composition of graphite-phase polymeric carbon nitride/reduced graphene oxide composites towards enhanced lithium-sulfur batteries performance. Electrochimica Acta, 2017, 248, 541-546.	2.6	20

#	Article	IF	Citations
37	Sugar Blowingâ€Induced Porous Cobalt Phosphide/Nitrogenâ€Doped Carbon Nanostructures with Enhanced Electrochemical Oxidation Performance toward Water and Other Small Molecules. Small, 2017, 13, 1700796.	5.2	65
38	Bimetallic Cobaltâ€Based Phosphide Zeolitic Imidazolate Framework: CoP_x Phaseâ€Dependent Electrical Conductivity and Hydrogen Atom Adsorption Energy for Efficient Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1601555.	10.2	340
39	Sizeâ€Dependent Crystal Properties of Nanocuprite. International Journal of Applied Ceramic Technology, 2016, 13, 389-394.	1.1	10
40	Kinetically Controlled Synthesis of Pt-Based One-Dimensional Hierarchically Porous Nanostructures with Large Mesopores as Highly Efficient ORR Catalysts. ACS Applied Materials & Interfaces, 2016, 8, 35213-35218.	4.0	53
41	Three-dimensional PtNi hollow nanochains as an enhanced electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 8755-8761.	5.2	63
42	Graphene Quantum Dotâ€“MnO₂ Nanosheet Based Optical Sensing Platform: A Sensitive Fluorescence â€œTurn Offâ€“Onâ€•Nanosensor for Glutathione Detection and Intracellular Imaging. ACS Applied Materials & Interfaces, 2016, 8, 21990-21996.	4.0	220
43	PdCuPt Nanocrystals with Multibranches for Enzyme-Free Glucose Detection. ACS Applied Materials & Interfaces, 2016, 8, 22196-22200.	4.0	68
44	Efficient Synthesis of MCu (M = Pd, Pt, and Au) Aerogels with Accelerated Gelation Kinetics and their High Electrocatalytic Activity. Advanced Materials, 2016, 28, 8779-8783.	11.1	213
45	Highly Ordered Mesoporous Bimetallic Phosphides as Efficient Oxygen Evolution Electrocatalysts. ACS Energy Letters, 2016, 1, 792-796.	8.8	139
46	Optimization of cobalt/nitrogen embedded carbon nanotubes as an efficient bifunctional oxygen electrode for rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 4864-4870.	5.2	72
47	Reduction of Nano-Cu₂O: Crystallite Size Dependent and the Effect of Nano-Ceria Support. Journal of Physical Chemistry C, 2015, 119, 17667-17672.	1.5	23
48	Size dependent compressibility of nano-ceria: Minimum near 33â€‰nm. Applied Physics Letters, 2015, 106, .	1.5	14