Jian-Qiu Huang

List of Publications by Year in Descending Order

34 papers	2,239 citations	26 h-index	35 g-index
35 ext. papers	2,519 ext. citations	12.7 avg, IF	5.1 L-index

#	Paper	IF	Citations
34	Critical roles of microstructure and interphase on the stability of microsized germanium anode. *Journal of Power Sources*, **2021**, 481, 228916	8.9	4
33	Advances in multi-functional flexible interlayers for Li–S batteries and metal-based batteries. *Materials Today Communications*, **2021**, 28, 102566	2.5	2
32	Exploring the structure evolution of MoS upon Li/Na/K ion insertion and the origin of the unusual stability in potassium ion batteries. *Nanoscale Horizons*, **2020**, 5, 1618-1627	10.8	7
31	Realizing high-performance Zn-ion batteries by a reduced graphene oxide block layer at room and low temperatures. *Journal of Energy Chemistry*, **2020**, 43, 1-7	12	14
30	KVPOF as a novel insertion-type anode for potassium ion batteries. *Chemical Communications*, **2019**, 55, 11311-11314	5.8	18
29	Preserved Layered Structure Enables Stable Cyclic Performance of MoS2 upon Potassium Insertion. *Chemistry of Materials*, **2019**, 31, 8801-8809	9.6	27
28	Nanostructures of solid electrolyte interphases and their consequences for microsized Sn anodes in sodium ion batteries. *Energy and Environmental Science*, **2019**, 12, 1550-1557	35.4	103
27	Graphene/RuO2 nanocrystal composites as sulfur host for lithium-sulfur batteries. *Journal of Energy Chemistry*, **2019**, 35, 204-211	12	21
26	Hybrid Aqueous/Organic Electrolytes Enable the High-Performance Zn-Ion Batteries. *Research*, **2019**, 2019, 2635310	7.8	21
25	Electrosprayed multiscale porous carbon microspheres as sulfur hosts for long-life lithium-sulfur batteries. *Carbon*, **2019**, 141, 16-24	10.4	41
24	Understanding the roles of activated porous carbon nanotubes as sulfur support and separator coating for lithium-sulfur batteries. *Electrochimica Acta*, **2018**, 268, 1-9	6.7	49
23	Revealing Pseudocapacitive Mechanisms of Metal Dichalcogenide SnS2/Graphene-CNT Aerogels for High-Energy Na Hybrid Capacitors. *Advanced Energy Materials*, **2018**, 8, 1702488	21.8	107
22	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702267	21.8	74
21	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium-sulfur batteries. *Nanoscale*, **2018**, 10, 21132-21141	7.7	20
20	Novel 2D Sb2S3 Nanosheet/CNT Coupling Layer for Exceptional Polysulfide Recycling Performance. *Advanced Energy Materials*, **2018**, 8, 1800710	21.8	74
19	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. *Advanced Energy Materials*, **2017**, 7, 1602078	21.8	69
18	Heterogeneous, mesoporous NiCo2O4@MnO2/graphene foam for asymmetric supercapacitors with ultrahigh specific energies. *Journal of Materials Chemistry A*, **2017**, 5, 3547-3557	13	91

17	Sb-doped SnO2/graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. *Energy Storage Materials*, **2017**, 9, 85-95	19.4	65
16	Lithium–Sulfur Battery Cable Made from Ultralight, Flexible Graphene/Carbon Nanotube/Sulfur Composite Fibers. *Advanced Functional Materials*, **2017**, 27, 1604815	15.6	147
15	A high-performance lithium ion oxygen battery consisting of Li2O2 cathode and lithiated aluminum anode with nafion membrane for reduced O2 crossover. *Nano Energy*, **2017**, 40, 258-263	17.1	31
14	Enhanced conversion reaction kinetics in low crystallinity SnO2/CNT anodes for Na-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 10964-10973	13	102
13	Study of lithiation mechanisms of high performance carbon-coated Si anodes by in-situ microscopy. *Energy Storage Materials*, **2016**, 3, 45-54	19.4	41
12	Electrospun graphitic carbon nanofibers with in-situ encapsulated Co–Ni nanoparticles as freestanding electrodes for Li–O2 batteries. *Carbon*, **2016**, 100, 329-336	10.4	72
11	Carbon-coated mesoporous silicon microsphere anodes with greatly reduced volume expansion. *Journal of Materials Chemistry A*, **2016**, 4, 6098-6106	13	62
10	Porous graphene oxide/carbon nanotube hybrid films as interlayer for lithium-sulfur batteries. *Carbon*, **2016**, 99, 624-632	10.4	216
9	Three-Dimensional Porous Graphene Aerogel Cathode with High Sulfur Loading and Embedded TiO Nanoparticles for Advanced Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 28663-28670	9.5	87
8	Controlled synthesis of cobalt carbonate/graphene composites with excellent supercapacitive performance and pseudocapacitive characteristics. *Journal of Materials Chemistry A*, **2015**, 3, 17827-17836	13	38
7	In-situ TEM examination and exceptional long-term cyclic stability of ultrafine Fe3O4 nanocrystal/carbon nanofiber composite electrodes. *Energy Storage Materials*, **2015**, 1, 25-34	19.4	37
6	Electrospun Carbon Nanofibers with in Situ Encapsulated Co–Nanoparticles as Electrodes for High-Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 13503-11	9.5	165
5	Novel interlayer made from Fe3C/carbon nanofiber webs for high performance lithium–sulfur batteries. *Journal of Power Sources*, **2015**, 285, 43-50	8.9	143
4	Nanocavity-engineered Si/multi-functional carbon nanofiber composite anodes with exceptional high-rate capacities. *Journal of Materials Chemistry A*, **2014**, 2, 17944-17951	13	37
3	Cobalt carbonate/ and cobalt oxide/graphene aerogel composite anodes for high performance Li-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 18971-80	9.5	118
2	Carbon nanofibers containing Si nanoparticles and graphene-covered Ni for high performance anodes in Li ion batteries. *RSC Advances*, **2014**, 4, 22359-22366	3.7	34
1	Co3O4/porous electrospun carbon nanofibers as anodes for high performance Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 16939-16944	13	102