## Guangyuan Wesley Zheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Phase engineering of Mo-V oxides molecular sieves for zinc-ion batteries. Science China Materials, 2022, 65, 939-946.	3.5	4
2	Mixed Ionically/Electronically Conductive Double-Phase Interface Enhanced Solid-State Charge Transfer for a High-Performance All-Solid-State Li–S Battery. Nano Letters, 2022, 22, 433-440.	4.5	12
3	Cathode-Supported-Electrolyte Configuration for High-Performance All-Solid-State Lithium–Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 11540-11547.	2.5	15
4	Stabilizing a Lithium Metal Battery by an In Situ Li <sub>2</sub> S-modified Interfacial Layer via Amorphous-Sulfide Composite Solid Electrolyte. Nano Letters, 2020, 20, 8273-8281.	4.5	47
5	Thermal Conductive 2D Boron Nitride for Highâ€Performance Allâ€Solidâ€State Lithium–Sulfur Batteries. Advanced Science, 2020, 7, 2001303.	5.6	46
6	Synergistic Effect of Salinized Quinone for Entrapment of Polysulfides for High-Performance Li–S Batteries. ACS Applied Materials & Interfaces, 2020, 12, 23867-23873.	4.0	11
7	Mechanical rolling formation of interpenetrated lithium metal/lithium tin alloy foil for ultrahigh-rate battery anode. Nature Communications, 2020, 11, 829.	5.8	246
8	Simultaneous Cobalt and Phosphorous Doping of MoS <sub>2</sub> for Improved Catalytic Performance on Polysulfide Conversion in Lithium–Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1902096.	10.2	118
9	A Cathode-Integrated Sulfur-Deficient Co <sub>9</sub> S <sub>8</sub> Catalytic Interlayer for the Reutilization of "Lost―Polysulfides in Lithium–Sulfur Batteries. ACS Nano, 2019, 13, 7073-7082.	7.3	226
10	Large-Scale Color-Changing Thin Film Energy Storage Device with High Optical Contrast and Energy Storage Capacity. ACS Applied Energy Materials, 2018, 1, 1658-1663.	2.5	14
11	Robust Pinhole-free Li <sub>3</sub> N Solid Electrolyte Grown from Molten Lithium. ACS Central Science, 2018, 4, 97-104.	5.3	197
12	Elucidating the Catalytic Activity of Oxygen Deficiency in the Polysulfide Conversion Reactions of Lithium–Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1801868.	10.2	164
13	Lithium Silicide Surface Enrichment: A Solution to Lithium Metal Battery. Advanced Materials, 2018, 30, e1801745.	11.1	163
14	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. Chemical Society Reviews, 2018, 47, 5919-5945.	18.7	314
15	Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. Nano Letters, 2017, 17, 1132-1139.	4.5	1,081
16	Batteries: Just a spoonful of LiPF6. Nature Energy, 2017, 2, .	19.8	7
17	Core–Shell Nanoparticle Coating as an Interfacial Layer for Dendrite-Free Lithium Metal Anodes. ACS Central Science, 2017, 3, 135-140.	5.3	162
18	Electrocatalysis of polysulfide conversion by sulfur-deficient MoS <sub>2</sub> nanoflakes for lithium–sulfur batteries. Energy and Environmental Science, 2017, 10, 1476-1486.	15.6	805

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19	Phase Transformations in TiS <sub>2</sub> during K Intercalation. ACS Energy Letters, 2017, 2, 1835-1840.	8.8	104
20	<i>In Situ</i> Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS <sub>2</sub> Flakes. Journal of the American Chemical Society, 2017, 139, 10133-10141.	6.6	126
21	Graphite-Encapsulated Li-Metal Hybrid Anodes for High-Capacity Li Batteries. CheM, 2016, 1, 287-297.	5.8	247
22	Durable rechargeable zinc-air batteries with neutral electrolyte and manganese oxide catalyst. Journal of Power Sources, 2016, 332, 330-336.	4.0	129
23	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. ACS Energy Letters, 2016, 1, 1247-1255.	8.8	281
24	Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium–sulfur battery design. Nature Communications, 2016, 7, 11203.	5.8	1,136
25	A Stretchable Graphitic Carbon/Si Anode Enabled by Conformal Coating of a Selfâ€Healing Elastic Polymer. Advanced Materials, 2016, 28, 2455-2461.	11.1	197
26	In Situ Chemical Synthesis of Lithium Fluoride/Metal Nanocomposite for High Capacity Prelithiation of Cathodes. Nano Letters, 2016, 16, 1497-1501.	4.5	112
27	In Situ Observation of Divergent Phase Transformations in Individual Sulfide Nanocrystals. Nano Letters, 2015, 15, 1264-1271.	4.5	102
28	Transparent air filter for high-efficiency PM2.5 capture. Nature Communications, 2015, 6, 6205.	5.8	690
29	The synergetic effect of lithium polysulfide and lithium nitrate to prevent lithium dendrite growth. Nature Communications, 2015, 6, 7436.	5.8	1,250
30	A Sulfur Cathode with Pomegranate‣ike Cluster Structure. Advanced Energy Materials, 2015, 5, 1500211.	10.2	122
31	Polymer Nanofiber-Guided Uniform Lithium Deposition for Battery Electrodes. Nano Letters, 2015, 15, 2910-2916.	4.5	495
32	Lateral and Vertical Two-Dimensional Layered Topological Insulator Heterostructures. ACS Nano, 2015, 9, 10916-10921.	7.3	30
33	A phosphorene–graphene hybrid material as a high-capacity anode for sodium-ion batteries. Nature Nanotechnology, 2015, 10, 980-985.	15.6	1,287
34	In-operando optical imaging of temporal and spatial distribution of polysulfides in lithium-sulfur batteries. Nano Energy, 2015, 11, 579-586.	8.2	84
35	Improving lithium–sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. Nature Communications, 2014, 5, 3943.	5.8	369
36	Facile synthesis of Li2S–polypyrrole composite structures for high-performance Li2S cathodes. Energy and Environmental Science, 2014, 7, 672.	15.6	277

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37	High Electrochemical Selectivity of Edge versus Terrace Sites in Two-Dimensional Layered MoS <sub>2</sub> Materials. Nano Letters, 2014, 14, 7138-7144.	4.5	269
38	Charging-free electrochemical system for harvesting low-grade thermal energy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17011-17016.	3.3	206
39	Interconnected hollow carbon nanospheres for stable lithium metal anodes. Nature Nanotechnology, 2014, 9, 618-623.	15.6	1,535
40	Improved lithium–sulfur batteries with a conductive coating on the separator to prevent the accumulation of inactive S-related species at the cathode–separator interface. Energy and Environmental Science, 2014, 7, 3381-3390.	15.6	476
41	Ultrathin Two-Dimensional Atomic Crystals as Stable Interfacial Layer for Improvement of Lithium Metal Anode. Nano Letters, 2014, 14, 6016-6022.	4.5	656
42	Sulfur Cathodes with Hydrogen Reduced Titanium Dioxide Inverse Opal Structure. ACS Nano, 2014, 8, 5249-5256.	7.3	297
43	Formation of Stable Phosphorus–Carbon Bond for Enhanced Performance in Black Phosphorus Nanoparticle–Graphite Composite Battery Anodes. Nano Letters, 2014, 14, 4573-4580.	4.5	764
44	High-capacity Li2S–graphene oxide composite cathodes with stable cycling performance. Chemical Science, 2014, 5, 1396.	3.7	109
45	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. Nature Communications, 2014, 5, 4345.	5.8	411
46	Strong Sulfur Binding with Conducting Magnéli-Phase Ti <sub><i>n</i></sub> O <sub>2<i>n</i>–1</sub> Nanomaterials for Improving Lithium–Sulfur Batteries. Nano Letters, 2014, 14, 5288-5294.	4.5	643
47	Stable cycling of lithium sulfide cathodes through strong affinity with a bifunctional binder. Chemical Science, 2013, 4, 3673.	3.7	412
48	Understanding the Role of Different Conductive Polymers in Improving the Nanostructured Sulfur Cathode Performance. Nano Letters, 2013, 13, 5534-5540.	4.5	601
49	Electrochemical tuning of vertically aligned MoS <sub>2</sub> nanofilms and its application in improving hydrogen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19701-19706.	3.3	894
50	High-performance hollow sulfur nanostructured battery cathode through a scalable, room temperature, one-step, bottom-up approach. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7148-7153.	3.3	359
51	Transparent and conductive paper from nanocellulose fibers. Energy and Environmental Science, 2013, 6, 513-518.	15.6	431
52	Sulphur–TiO2 yolk–shell nanoarchitecture with internal void space for long-cycle lithium–sulphur batteries. Nature Communications, 2013, 4, 1331.	5.8	1,884
53	Amphiphilic Surface Modification of Hollow Carbon Nanofibers for Improved Cycle Life of Lithium Sulfur Batteries. Nano Letters, 2013, 13, 1265-1270.	4.5	668
54	A membrane-free lithium/polysulfide semi-liquid battery for large-scale energy storage. Energy and Environmental Science, 2013, 6, 1552.	15.6	359

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55	Nanostructured paper for flexible energy and electronic devices. MRS Bulletin, 2013, 38, 320-325.	1.7	199
56	Nanostructured sulfur cathodes. Chemical Society Reviews, 2013, 42, 3018.	18.7	1,778
57	Silicon-conductive nanopaper for Li-ion batteries. Nano Energy, 2013, 2, 138-145.	8.2	155
58	Crab Shells as Sustainable Templates from Nature for Nanostructured Battery Electrodes. Nano Letters, 2013, 13, 3385-3390.	4.5	208
59	MoSe <sub>2</sub> and WSe <sub>2</sub> Nanofilms with Vertically Aligned Molecular Layers on Curved and Rough Surfaces. Nano Letters, 2013, 13, 3426-3433.	4.5	653
60	High-Capacity Micrometer-Sized Li <sub>2</sub> S Particles as Cathode Materials for Advanced Rechargeable Lithium-Ion Batteries. Journal of the American Chemical Society, 2012, 134, 15387-15394.	6.6	624
61	Engineering Empty Space between Si Nanoparticles for Lithium-Ion Battery Anodes. Nano Letters, 2012, 12, 904-909.	4.5	658
62	Rechargeable Li–O2 batteries with a covalently coupled MnCo2O4–graphene hybrid as an oxygen cathode catalyst. Energy and Environmental Science, 2012, 5, 7931.	15.6	393
63	Paper supercapacitors by a solvent-free drawing method. Energy and Environmental Science, 2011, 4, 3368.	15.6	290
64	Hollow Carbon Nanofiber-Encapsulated Sulfur Cathodes for High Specific Capacity Rechargeable Lithium Batteries. Nano Letters, 2011, 11, 4462-4467.	4.5	1,194