

# Shuru Chen

## List of Publications by Year in descending order

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48  
papers

9,013  
citations

66343

42  
h-index

189892

50  
g-index

51  
all docs

51  
docs citations

51  
times ranked

9003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-tailored lithium deposition and dissolution in lithium metal batteries. <i>Nature Energy</i> , 2021, 6, 987-994.	39.5	208
2	Opportunities and Challenges of High-Energy Lithium Metal Batteries for Electric Vehicle Applications. <i>ACS Energy Letters</i> , 2020, 5, 3140-3151.	17.4	196
3	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. <i>Nature Energy</i> , 2019, 4, 551-559.	39.5	492
4	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. <i>Joule</i> , 2019, 3, 1094-1105.	24.0	358
5	Minimized Volume Expansion in Hierarchical Porous Silicon upon Lithiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13257-13263.	8.0	51
6	Enhanced Stability of Lithium Metal Anode by using a 3D Porous Nickel Substrate. <i>ChemElectroChem</i> , 2018, 5, 761-769.	3.4	58
7	Extremely Stable Sodium Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>ACS Energy Letters</i> , 2018, 3, 315-321.	17.4	373
8	Superior Performance of a Lithium-Sulfur Battery Enabled by a Dimethyl Trisulfide Containing Electrolyte. <i>Small Methods</i> , 2018, 2, 1800038.	8.6	44
9	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , 2018, 30, e1706102.	21.0	761
10	Electrode Edge Effects and the Failure Mechanism of Lithium-Metal Batteries. <i>ChemSusChem</i> , 2018, 11, 3821-3828.	6.8	35
11	High-Efficiency Lithium Metal Batteries with Fire-Retardant Electrolytes. <i>Joule</i> , 2018, 2, 1548-1558.	24.0	436
12	Lithium-Metal Batteries: High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes (Adv. Mater. 21/2018). <i>Advanced Materials</i> , 2018, 30, 1870144.	21.0	4
13	A Localized High-Concentration Electrolyte with Optimized Solvents and Lithium Difluoro(oxalate)borate Additive for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2059-2067.	17.4	257
14	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. <i>Chem</i> , 2018, 4, 1877-1892.	11.7	628
15	A Fluorinated Ether Electrolyte Enabled High Performance Prelithiated Graphite/Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6959-6966.	8.0	65
16	Exceptionally High Ionic Conductivity in $\text{Na}_3\text{P}_{0.62}\text{As}_{0.38}\text{S}_4$ with Improved Moisture Stability for Solid-State Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1605561.	21.0	164
17	High capacity of lithium-sulfur batteries at low electrolyte/sulfur ratio enabled by an organosulfide containing electrolyte. <i>Nano Energy</i> , 2017, 31, 418-423.	16.0	83
18	General Method of Manipulating Formation, Composition, and Morphology of Solid-Electrolyte Interphases for Stable Li-Alloy Anodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 17359-17367.	13.7	112

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19	Organosulfide-plasticized solid-electrolyte interphase layer enables stable lithium metal anodes for long-cycle lithium-sulfur batteries. <i>Nature Communications</i> , 2017, 8, 850.	12.8	240
20	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4231-4235.	13.8	149
21	Room-Temperature Synthesis of Mesoporous Sn/SnO <sub>2</sub> Composite as Anode for Sodium-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1950-1954.	2.0	23
22	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 4303-4307.	2.0	35
23	Self-Templated Synthesis of Mesoporous Carbon from Carbon Tetrachloride Precursor for Supercapacitor Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6779-6783.	8.0	75
24	Strong Lithium Polysulfide Chemisorption on Electroactive Sites of Nitrogen-Doped Carbon Composites For High-Performance Lithium-Sulfur Battery Cathodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4325-4329.	13.8	686
25	Facile synthesis of graphene-silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. <i>Solid State Ionics</i> , 2014, 254, 65-71.	2.7	89
26	Bottom-up synthesis of high surface area mesoporous crystalline silicon and evaluation of its hydrogen evolution performance. <i>Nature Communications</i> , 2014, 5, 3605.	12.8	212
27	Solvothermal synthesis of V <sub>2</sub> O <sub>5</sub> /graphene nanocomposites for high performance lithium ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 7-12.	3.5	58
28	Micro-sized silicon-carbon composites composed of carbon-coated sub-10 nm Si primary particles as high-performance anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1257-1262.	10.3	165
29	Titanium nitride coating to enhance the performance of silicon nanoparticles as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10375-10378.	10.3	79
30	Flexible freestanding sandwich-structured sulfur cathode with superior performance for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8623-8627.	10.3	87
31	High-Performance Hybrid Supercapacitor Enabled by a High-Rate Si-based Anode. <i>Advanced Functional Materials</i> , 2014, 24, 7433-7439.	14.9	208
32	Porous Spherical Carbon/Sulfur Nanocomposites by Aerosol-Assisted Synthesis: The Effect of Pore Structure and Morphology on Their Electrochemical Performance As Lithium/Sulfur Battery Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7596-7606.	8.0	84
33	Bis(2,2,2-trifluoroethyl) Ether As an Electrolyte Co-solvent for Mitigating Self-Discharge in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8006-8010.	8.0	161
34	Enhanced performance of SiO/Fe <sub>2</sub> O <sub>3</sub> composite as an anode for rechargeable Li-ion batteries. <i>Electrochemistry Communications</i> , 2013, 28, 79-82.	4.7	64
35	Mesoporous Carbon-Carbon Nanotube-Sulfur Composite Microspheres for High-Areal-Capacity Lithium-Sulfur Battery Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11355-11362.	8.0	230
36	Micro-sized Si-C Composite with Interconnected Nanoscale Building Blocks as High-Performance Anodes for Practical Application in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 295-300.	19.5	412

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37	Exceptional electrochemical performance of rechargeable Li <sup>+</sup> /S batteries with a polysulfide-containing electrolyte. <i>RSC Advances</i> , 2013, 3, 3540.	3.6	87
38	Amorphous Zn <sub>2</sub> GeO <sub>4</sub> nanoparticles as anodes with high reversible capacity and long cycling life for Li-ion batteries. <i>Nano Energy</i> , 2013, 2, 498-504.	16.0	120
39	Silicon core-hollow carbon shell nanocomposites with tunable buffer voids for high capacity anodes of lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12741.	2.8	196
40	Amorphous Si/SiO <sub>x</sub> /SiO <sub>2</sub> nanocomposites via facile scalable synthesis as anode materials for Li-ion batteries with long cycling life. <i>RSC Advances</i> , 2012, 2, 12710.	3.6	47
41	Facile synthesis of a interleaved expanded graphite-embedded sulphur nanocomposite as cathode of Li <sup>+</sup> /S batteries with excellent lithium storage performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 4744.	6.7	195
42	Formation of SnS nanoflowers for lithium ion batteries. <i>Chemical Communications</i> , 2012, 48, 5608.	4.1	167
43	Preparation of Pt nanoparticles supported on ordered mesoporous carbon FDU-15 for electrocatalytic oxidation of CO and methanol. <i>Electrochimica Acta</i> , 2012, 67, 127-132.	5.2	29
44	Ordered mesoporous carbon/sulfur nanocomposite of high performances as cathode for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2011, 56, 9549-9555.	5.2	329
45	A composite material of SnO <sub>2</sub> /ordered mesoporous carbon for the application in Lithium-ion Battery. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 185-191.	3.8	47
46	In situ microscope FTIR spectroscopic studies of interfacial reactions of Sn-Co alloy film anode of lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 171-176.	3.8	48
47	Synthesis and Durability of Highly Dispersed Platinum Nanoparticles Supported on Ordered Mesoporous Carbon and Their Electrocatalytic Properties for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19055-19061.	3.1	22
48	One-step fabrication of CuO nanoribbons array electrode and its excellent lithium storage performance. <i>Electrochimica Acta</i> , 2009, 54, 5825-5829.	5.2	147