

Susanne Dörfler

List of Publications by Year in descending order

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papers

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430874

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2382
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and Key Parameters of Lithium-Sulfur Batteries on Pouch Cell Level. <i>Joule</i> , 2020, 4, 539-554.	24.0	288
2	High capacity vertical aligned carbon nanotube/sulfur composite cathodes for lithium-sulfur batteries. <i>Chemical Communications</i> , 2012, 48, 4097.	4.1	282
3	Expansion-tolerant architectures for stable cycling of ultrahigh-loading sulfur cathodes in lithium-sulfur batteries. <i>Science Advances</i> , 2020, 6, eaay2757.	10.3	152
4	Lithium-sulfur batteries: Influence of C-rate, amount of electrolyte and sulfur loading on cycle performance. <i>Journal of Power Sources</i> , 2014, 268, 82-87.	7.8	139
5	Current status and future perspectives of lithium metal batteries. <i>Journal of Power Sources</i> , 2020, 480, 228803.	7.8	109
6	Nitrogen-Doped Biomass-Derived Carbon Formed by Mechanochemical Synthesis for Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2019, 12, 310-319.	6.8	81
7	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelithiated Silicon Nanowire-Carbon Anodes for Long Cycling Stability. <i>Scientific Reports</i> , 2016, 6, 27982.	3.3	69
8	On the mechanistic role of nitrogen-doped carbon cathodes in lithium-sulfur batteries with low electrolyte weight portion. <i>Nano Energy</i> , 2018, 54, 116-128.	16.0	67
9	High power supercap electrodes based on vertical aligned carbon nanotubes on aluminum. <i>Journal of Power Sources</i> , 2013, 227, 218-228.	7.8	66
10	Recent Progress and Emerging Application Areas for Lithium-Sulfur Battery Technology. <i>Energy Technology</i> , 2021, 9, 2000694.	3.8	58
11	Polysulfide Shuttle Suppression by Electrolytes with Low Density for High Energy Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2019, 7, 1900625.	3.8	57
12	The Role of Balancing Nanostructured Silicon Anodes and NMC Cathodes in Lithium-Ion Full-Cells with High Volumetric Energy Density. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020516.	2.9	46
13	Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. <i>Carbon</i> , 2020, 161, 190-197.	10.3	43
14	Importance of Capacity Balancing on The Electrochemical Performance of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ (NCM811)/Silicon Full Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3265-A3271.	2.9	40
15	Wet-chemical catalyst deposition for scalable synthesis of vertical aligned carbon nanotubes on metal substrates. <i>Chemical Physics Letters</i> , 2011, 511, 288-293.	2.6	37
16	Impact of Carbon Porosity on Sulfur Conversion in Li-S Battery Cathodes in a Sparingly Polysulfide Solvating Electrolyte. <i>Batteries and Supercaps</i> , 2021, 4, 823-833.	4.7	22
17	Sulfur: an intermediate template for advanced silicon anode architectures. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14787-14796.	10.3	21
18	Nanostructured Si-C Composites As High Capacity Anode Material For All-Solid-State Lithium-Ion Batteries**. <i>Batteries and Supercaps</i> , 2021, 4, 1323-1334.	4.7	19

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19	The Role of Carbon Electrodes Pore Size Distribution on the Formation of the Cathodeâ€“Electrolyte Interphase in Lithiumâ€“Sulfur Batteries. Batteries and Supercaps, 2021, 4, 612-622.	4.7	18
20	Symmetric Lithium Sulfide â€“ Sulfur Cells: A Method to Study Degradation Mechanisms of Cathode, Separator and Electrolyte Concepts for Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2018, 165, A1084-A1091.	2.9	16
21	Mechanistic Insights into the Role of Covalent Triazine Frameworks as Cathodes in Lithiumâ€“Sulfur Batteries. Batteries and Supercaps, 2020, 3, 1069-1079.	4.7	14
22	Sulfur Transfer Melt Infiltration for Highâ€“Power Carbon Nanotube Sheets in Lithiumâ€“Sulfur Pouch Cells. Batteries and Supercaps, 2021, 4, 989-1002.	4.7	14
23	Operando Radiography and Multimodal Analysis of Lithiumâ€“Sulfur Pouch Cellsâ€“Electrolyte Dependent Morphology Evolution at the Cathode. Advanced Energy Materials, 2022, 12, .	19.5	13
24	Stabilizing Effect of Polysulfides on Lithium Metal Anodes in Sparingly Solvating Solvents. Batteries and Supercaps, 2021, 4, 347-358.	4.7	10
25	Largeâ€“Scale Synthesis of Nanostructured Carbonâ€“Ti ₄ O ₇ Hollow Particles as Efficient Sulfur Host Materials for Multilayer Lithiumâ€“Sulfur Pouch Cells. Batteries and Supercaps, 2022, 5, .	4.7	8
26	The Importance of Swelling Effects on Cathode Density and Electrochemical Performance of Lithiumâ€“Sulfur Battery Cathodes Produced via Dry Processing. Energy Technology, 2022, 10, 2100721.	3.8	7
27	Influence of external stack pressure on the performance of Li-S pouch cell. JPhys Energy, 2022, 4, 014004.	5.3	5
28	Influence of Polysulfides on the Lithium Metal Anode and on Electrolyte Properties. ECS Meeting Abstracts, 2021, MA2021-02, 88-88.	0.0	0