

Shaofeng Li

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,793
citations

147801
31
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182427
51
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all docs

53
docs citations

53
times ranked

6198
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroactive edge site-enriched nickel–cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 1299-1307.	30.8	623
2	Trace doping of multiple elements enables stable battery cycling of LiCoO ₂ at 4.6%V. <i>Nature Energy</i> , 2019, 4, 594-603.	39.5	572
3	Ultrafine MoO ₂ –Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , 2017, 7, 1602880.	19.5	306
4	A superhydrophilic “nanoglue” for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1958-1965.	30.8	294
5	Enhanced sodium storage capability enabled by super wide-interlayer-spacing MoS ₂ integrated on carbon fibers. <i>Nano Energy</i> , 2017, 41, 66-74.	16.0	273
6	Iron-tuned super nickel phosphide microstructures with high activity for electrochemical overall water splitting. <i>Nano Energy</i> , 2017, 34, 472-480.	16.0	258
7	Strategies and insights towards the intrinsic capacitive properties of MnO ₂ for supercapacitors: Challenges and perspectives. <i>Nano Energy</i> , 2019, 57, 459-472.	16.0	232
8	Surface-Confined Fabrication of Ultrathin Nickel Cobalt Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803272.	14.9	215
9	Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. <i>Energy and Environmental Science</i> , 2021, 14, 576-601.	30.8	166
10	Starch Derived Porous Carbon Nanosheets for High-Performance Photovoltaic Capacitive Deionization. <i>Environmental Science & Technology</i> , 2017, 51, 9244-9251.	10.0	120
11	Bridging of Ultrathin NiCo ₂ O ₄ Nanosheets and Graphene with Polyaniline: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2016, 28, 5855-5863.	6.7	116
12	Decoupling and correlating the ion transport by engineering 2D carbon nanosheets for enhanced charge storage. <i>Nano Energy</i> , 2019, 64, 103921.	16.0	90
13	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , 2020, 4, 673-687.	24.0	88
14	High-Stacking-Density, Superior-Roughness LDH Bridged with Vertically Aligned Graphene for High-Performance Asymmetric Supercapacitors. <i>Small</i> , 2017, 13, 1701288.	10.0	83
15	Activation of transition metal oxides by in-situ electro-regulated structure-reconstruction for ultra-efficient oxygen evolution. <i>Nano Energy</i> , 2019, 58, 778-785.	16.0	81
16	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1901241.	21.0	81
17	A closed-loop and scalable process for the production of biomass-derived superhydrophilic carbon for supercapacitors. <i>Green Chemistry</i> , 2021, 23, 3400-3409.	9.0	80
18	Mutual modulation between surface chemistry and bulk microstructure within secondary particles of nickel-rich layered oxides. <i>Nature Communications</i> , 2020, 11, 4433.	12.8	78

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19	Phase controllable synthesis of Ni ²⁺ post-modified CoP nanowire for enhanced oxygen evolution. Nano Energy, 2019, 62, 136-143.	16.0	66
20	Decoupling atomic-layer-deposition ultrafine RuO ₂ for high-efficiency and ultralong-life Li-O ₂ batteries. Nano Energy, 2017, 34, 399-407.	16.0	63
21	Ultrafast construction of interfacial sites by wet chemical etching to enhance electrocatalytic oxygen evolution. Nano Energy, 2020, 69, 104367.	16.0	58
22	Ultrahigh-Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. Small, 2018, 14, e1803310.	10.0	48
23	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. Journal of the American Chemical Society, 2019, 141, 12079-12086.	13.7	47
24	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. Small, 2019, 15, e1901015.	10.0	46
25	Halide-based solid-state electrolyte as an interfacial modifier for high performance solid-state Li-O ₂ batteries. Nano Energy, 2020, 75, 105036.	16.0	45
26	Ultrasmall diiron phosphide nanodots anchored on graphene sheets with enhanced electrocatalytic activity for hydrogen production via high-efficiency water splitting. Journal of Materials Chemistry A, 2016, 4, 16028-16035.	10.3	44
27	Operando Tailoring of Defects and Strains in Corrugated Ni(OH) ₂ Nanosheets for Stable and High-Rate Energy Storage. Advanced Materials, 2021, 33, e2006147.	21.0	44
28	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage. Nature Communications, 2022, 13, 1409.	12.8	42
29	Activation of inert copper for significantly enhanced hydrogen evolution behaviors by trace ruthenium doping. Nano Energy, 2022, 92, 106763.	16.0	38
30	Interface Engineering of Ni ₃ N@Fe ₃ N Heterostructure Supported on Carbon Fiber for Enhanced Water Oxidation. Industrial & Engineering Chemistry Research, 2017, 56, 14245-14251.	3.7	35
31	Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 26235-26242.	8.0	35
32	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. Nature Communications, 2020, 11, 6342.	12.8	34
33	Thermal-healing of lattice defects for high-energy single-crystalline battery cathodes. Nature Communications, 2022, 13, 704.	12.8	33
34	Ultrathin Nitrogen-Enriched Hybrid Carbon Nanosheets for Supercapacitors with Ultrahigh Rate Performance and High Energy Density. ChemElectroChem, 2017, 4, 369-375.	3.4	32
35	High performance asymmetric capacitive mixing with oppositely charged carbon electrodes for energy production from salinity differences. Journal of Materials Chemistry A, 2017, 5, 20374-20380.	10.3	31
36	Boosting charge storage in 1D manganese oxide-carbon composite by phosphorus-assisted structural modification for supercapacitor applications. Energy Storage Materials, 2020, 31, 172-180.	18.0	30

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37	Phosphate Species up to 70% Mass Ratio for Enhanced Pseudocapacitive Properties. <i>Small</i> , 2018, 14, e1803811.	10.0	29
38	Insights into the electronic origin of enhancing the catalytic activity of Co ₃ O ₄ for oxygen evolution by single atom ruthenium. <i>Nano Today</i> , 2020, 34, 100955.	11.9	29
39	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. <i>Advanced Energy Materials</i> , 2021, 11, 2102122.	19.5	27
40	A recyclable route to produce biochar with a tailored structure and surface chemistry for enhanced charge storage. <i>Green Chemistry</i> , 2019, 21, 2095-2103.	9.0	23
41	Operando leaching of pre-incorporated Al and mechanism in transition-metal hybrids on carbon substrates for enhanced charge storage. <i>Matter</i> , 2021, 4, 2902-2918.	10.0	22
42	Microporous MOFs Engaged in the Formation of Nitrogen-Doped Mesoporous Carbon Nanosheets for High-Rate Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 2681-2686.	3.3	21
43	Graphite-graphene architecture stabilizing ultrafine Co ₃ O ₄ nanoparticles for superior oxygen evolution. <i>Carbon</i> , 2018, 140, 17-23.	10.3	20
44	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni ²⁺ into Single Atom Catalysts. <i>ACS Nano</i> , 2020, 14, 11662-11669.	14.6	20
45	A Phase Transformation-Resistant Electrode Enabled by a MnO ₂ -Confined Effect for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1901342.	14.9	18
46	An electrocatalyst with anti-oxidized capability for overall water splitting. <i>Nano Research</i> , 2018, 11, 3411-3418.	10.4	16
47	A Hierarchical-Structured Impeller with Engineered Pd Nanoparticles Catalyzing Suzuki Coupling Reactions for High-Purity Biphenyl. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17429-17438.	8.0	16
48	Reversible Mn/Cr dual redox in cation-disordered Li-excess cathode materials for stable lithium ion batteries. <i>Acta Materialia</i> , 2021, 212, 116935.	7.9	16
49	Multilevel Coupled Hybrids Made of Porous Cobalt Oxides and Graphene for High-Performance Lithium Storage. <i>Chemistry - A European Journal</i> , 2019, 25, 5527-5533.	3.3	6
50	Sodium-Ion Batteries: Ultrafine MoO ₂ -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance (<i>Adv. Energy Mater.</i> 15/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	2
51	Supercapacitors: High-Stacking-Density, Superior-Roughness LDH Bridged with Vertically Aligned Graphene for High-Performance Asymmetric Supercapacitors (<i>Small</i> 37/2017). <i>Small</i> , 2017, 13, .	10.0	1
52	Operando Leaching of Pre-Incorporated Al and Mechanism in Transition Metal Hybrids for Elaborately Enhanced Charge Storage. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0