Sheng Li

List of Publications by Year in descending order

82 papers	4,585 citations	94433 37 h-index	102487 66 g-index
82 all docs	82 docs citations	82 times ranked	6418 citing authors

#	Article	IF	Citations
1	Surface capacitive contributions: Towards high rate anode materials for sodium ion batteries. Nano Energy, 2015, 12, 224-230.	16.0	371
2	Microporous bamboo biochar for lithium-sulfur batteries. Nano Research, 2015, 8, 129-139.	10.4	284
3	Photocatalytic Synthesis of TiO₂ and Reduced Graphene Oxide Nanocomposite for Lithium Ion Battery. ACS Applied Materials & Interfaces, 2012, 4, 3636-3642.	8.0	276
4	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. Nano Energy, 2015, 12, 178-185.	16.0	236
5	Advances in Sn-Based Catalysts for Electrochemical CO2 Reduction. Nano-Micro Letters, 2019, 11, 62.	27.0	176
6	Hydrogenation Synthesis of Blue TiO₂ for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 8824-8830.	3.1	167
7	Conductive MOF-Modified Separator for Mitigating the Shuttle Effect of Lithiumâ€“Sulfur Battery through a Filtration Method. ACS Applied Materials & Interfaces, 2019, 11, 11459-11465.	8.0	141
8	Designing MOFs-Derived FeS₂@Carbon Composites for High-Rate Sodium Ion Storage with Capacitive Contributions. ACS Applied Materials & Interfaces, 2018, 10, 33097-33104.	8.0	126
9	Repurposed Leather with Sensing Capabilities for Multifunctional Electronic Skin. Advanced Science, 2019, 6, 1801283.	11.2	119
10	Photoelectrochemical Characterization of Hydrogenated TiO₂ Nanotubes as Photoanodes for Sensing Applications. ACS Applied Materials & Interfaces, 2013, 5, 11129-11135.	8.0	108
11	Resilient mesoporous TiO2/graphene nanocomposite for high rate performance lithium-ion batteries. Chemical Engineering Journal, 2014, 256, 247-254.	12.7	107
12	Multiple Active Sites of Carbon for Highâ€Rate Surfaceâ€Capacitive Sodiumâ€Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 13584-13589.	13.8	98
13	Multifunctional SA-PProDOT Binder for Lithium Ion Batteries. Nano Letters, 2015, 15, 4440-4447.	9.1	97
14	Oxygen-Vacancy-Enhanced Peroxidase-like Activity of Reduced Co₃O₄ Nanocomposites for the Colorimetric Detection of H₂O₂ and Glucose. Inorganic Chemistry, 2020, 59, 3152-3159.	4.0	92
15	The Role of Defects in Metalâ€“Organic Frameworks for Nitrogen Reduction Reaction: When Defects Switch to Features. Advanced Functional Materials, 2021, 31, 2010052.	14.9	92
16	Recent progress of structural designs of silicon for performance-enhanced lithium-ion batteries. Chemical Engineering Journal, 2020, 397, 125380.	12.7	89
17	Dual-component LixTiO2@silica functional coating in one layer for performance enhanced LiNi0.6Co0.2Mn0.2O2 cathode. Nano Energy, 2019, 58, 673-679.	16.0	84
18	Designing Li-protective layer via SOCl2 additive for stabilizing lithium-sulfur battery. Energy Storage Materials, 2019, 18, 222-228.	18.0	84

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19	SnSe₂ Nanoparticles Chemically Embedded in a Carbon Shell for High-Rate Sodium-Ion Storage. ACS Applied Materials & Interfaces, 2020, 12, 2346-2353.	8.0	77
20	Bismuth nano-spheres encapsulated in porous carbon network for robust and fast sodium storage. Chemical Engineering Journal, 2017, 320, 300-307.	12.7	72
21	Polar, catalytic, and conductive CoSe2/C frameworks for performance enhanced S cathode in Liâ€“S batteries. Journal of Energy Chemistry, 2020, 48, 128-135.	12.9	61
22	Pseudocapacitance of amorphous TiO2@nitrogen doped graphene composite for high rate lithium storage. Electrochimica Acta, 2015, 180, 112-119.	5.2	60
23	Blue hydrogenated lithium titanate as a high-rate anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 6353.	10.3	58
24	Synthesis and photocatalytic properties of the grapheneâ€“La2Ti2O7 nanocomposites. Chemical Engineering Journal, 2011, 178, 468-474.	12.7	55
25	Compartmentalization within Selfâ€Assembled Metalâ€“Organic Framework Nanoparticles for Tandem Reactions. Advanced Functional Materials, 2018, 28, 1802479.	14.9	55
26	Directional synthesis of tin oxide@graphene nanocomposites via a one-step up-scalable wet-mechanochemical route for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10211-10217.	10.3	54
27	Rational design of multi-functional CoS@rGO composite for performance enhanced Li-S cathode. Journal of Power Sources, 2019, 421, 132-138.	7.8	54
28	Low cost and environmentally benign crack-blocking structures for long life and high power Si electrodes in lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2036-2042.	10.3	53
29	Fabrication of Flexible Transparent Electrode with Enhanced Conductivity from Hierarchical Metal Grids. ACS Applied Materials & Interfaces, 2017, 9, 39110-39115.	8.0	52
30	Metalâ€“Organic Frameworks as Metal Ion Precursors for the Synthesis of Nanocomposites for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 4763-4769.	13.8	52
31	Hollow Niâ€“CoSe₂ Embedded in Nitrogen-Doped Carbon Nanocomposites Derived from Metalâ€“Organic Frameworks for High-Rate Anodes. ACS Applied Materials & Interfaces, 2018, 10, 38845-38852.	8.0	51
32	Anchoring ultra-fine TiO₂â€“SnO₂solid solution particles onto graphene by one-pot ball-milling for long-life lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 9700-9706.	10.3	47
33	Layer Structured Sulfur/Expanded Graphite Composite as Cathode for Lithium Battery. Electrochemical and Solid-State Letters, 2011, 14, A105-A107.	2.2	45
34	One-step turning leather wastes into heteroatom doped carbon aerogel for performance enhanced capacitive deionization. Microporous and Mesoporous Materials, 2020, 303, 110303.	4.4	45
35	SnO₂ decorated graphene nanocomposite anode materials prepared via an up-scalable wet-mechanochemical process for sodium ion batteries. RSC Advances, 2014, 4, 50148-50152.	3.6	43
36	An environmentally benign LIB fabrication process using a low cost, water soluble and efficient binder. Journal of Materials Chemistry A, 2013, 1, 11543.	10.3	42

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37	Fe2TiO5 nanochains as anode for high-performance lithium-ion capacitor. Rare Metals, 2021, 40, 2424-2431.	7.1	41
38	Multicomponent metalâ€“organic framework derivatives for optimizing the selective catalytic performance of styrene epoxidation reaction. Nanoscale, 2018, 10, 8772-8778.	5.6	40
39	Wearable Leather-Based Electronics for Respiration Monitoring. ACS Applied Bio Materials, 2019, 2, 1427-1431.	4.6	39
40	Leatherâ€Based Strain Sensor with Hierarchical Structure for Motion Monitoring. Advanced Materials Technologies, 2019, 4, 1900442.	5.8	37
41	Thermal Shrinkage Behavior of Metalâ€“Organic Frameworks. Advanced Functional Materials, 2020, 30, 2001389.	14.9	35
42	Î±-Fe 2 O 3 nanoplates with superior electrochemical performance for lithium-ion batteries. Green Energy and Environment, 2018, 3, 156-162.	8.7	34
43	Regulation of Cobaltâ€“Nickel LDHsâ€™ Structure and Components for Optimizing the Performance of an Electrochemical Sensor. ACS Applied Nano Materials, 2019, 2, 6387-6396.	5.0	33
44	Hydrophilic silica spheres layer as ions shunt for enhanced Zn metal anode. Chemical Engineering Journal, 2022, 431, 133931.	12.7	33
45	Hydrophilic nano-porous carbon derived from egg whites for highly efficient capacitive deionization. Applied Surface Science, 2020, 512, 145740.	6.1	31
46	Modifiers versus Channels: Creating Shapeâ€Selective Catalysis of Metal Nanoparticles/Porous Nanomaterials. Angewandte Chemie - International Edition, 2021, 60, 976-982.	13.8	30
47	Multiple Active Sites of Carbon for Highâ€Rate Surfaceâ€Capacitive Sodiumâ€Ion Storage. Angewandte Chemie, 2019, 131, 13718-13723.	2.0	28
48	Co nanoparticles combined with nitrogen-doped graphitic carbon anchored on carbon fibers as a self-standing air electrode for flexible zincâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 7184-7191.	10.3	28
49	Rational Design of the CoS/Co₉S₈@NC Composite Enabling High-Rate Sodium-Ion Storage. ACS Applied Energy Materials, 2021, 4, 5574-5582.	5.1	27
50	Dual modification of TiO 2 nanorods for selective photoelectrochemical detection of organic compounds. Sensors and Actuators B: Chemical, 2017, 250, 307-314.	7.8	24
51	Operando mechanistic and dynamic studies of N/P co-doped hard carbon nanofibers for efficient sodium storage. Chemical Communications, 2021, 57, 9610-9613.	4.1	24
52	Metalâ€“organic framework derived leaf-like CoSNC nanocomposites for supercapacitor electrodes. Nanoscale, 2018, 10, 17958-17964.	5.6	23
53	Regulating Electronic Status of Platinum Nanoparticles by Metalâ€“Organic Frameworks for Selective Catalysis. CCS Chemistry, 2021, 3, 1607-1614.	7.8	21
54	Transitional MOFs: Exposing Metal Sites with Porosity for Enhancing Catalytic Reaction Performance. ACS Applied Materials & Interfaces, 2020, 12, 23968-23975.	8.0	20

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55	Frontiers and Structural Engineering for Building Flexible Zincâ€“Air Batteries. Advanced Science, 2022, 9, e2103954.	11.2	20
56	Fast Intercalation in Locally Ordered Carbon Nanocrystallites for Superior Potassium Ions Storage. Advanced Functional Materials, 2022, 32, 2109672.	14.9	18
57	Interfacial engineering for metal oxide/nitride nano-heterojunctions towards high-rate lithium-ion storage. Journal of Materials Chemistry A, 2022, 10, 7391-7398.	10.3	18
58	High-performance amorphous carbonâ€“graphene nanocomposite anode for lithium-ion batteries. RSC Advances, 2014, 4, 18899.	3.6	16
59	Co₃O₄ nanoparticles embedded in nitrogen-doped graphitic carbon fibers as a free-standing electrode for promotion of lithium ion storage with capacitive contribution. Chemical Communications, 2020, 56, 5767-5770.	4.1	16
60	Simultaneous Efficient Decontamination of Bacteria and Heavy Metals via Capacitive Deionization Using Polydopamine/Polyhexamethylene Guanidine Co-deposited Activated Carbon Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 61669-61680.	8.0	16
61	Bi₂S₃ Nanorods Bonding on Reduced Graphene Oxide Surface as Advanced Anode Materials for Sodiumâ€ion Batteries. Energy Technology, 2019, 7, 1800876.	3.8	15
62	3D-conductive pathway written on leather for highly sensitive and durable electronic whisker. Journal of Materials Chemistry C, 2020, 8, 9748-9754.	5.5	15
63	Regenerating leather waste for flexible pressure sensing applications. Journal of Leather Science and Engineering, 2019, 1, .	6.0	14
64	Rational Design of Coâ€NiSe₂@Nâ€Doped Carbon Hollow Structure for Enhanced Liâ€“S Battery Performance. Energy Technology, 2020, 8, 2000302.	3.8	14
65	Oxygen vacancies boosted the electrochemical kinetics of Nb₂O_{5â^’x} for superior lithium storage. Chemical Communications, 2021, 57, 8182-8185.	4.1	14
66	Fabrication of Two-Dimensional Metalâ€“Organic Framework Nanosheets through Crystal Dissolutionâ€“Growth Kinetics. ACS Applied Materials & Interfaces, 2022, 14, 7192-7199.	8.0	13
67	The Encounter of Biomolecules in Metalâ€“Organic Framework Micro/Nano Reactors. ACS Applied Materials & Interfaces, 2021, 13, 52215-52233.	8.0	12
68	Hierarchical porous N, S co-doped carbon derived from fish scales for enhanced membrane capacitive deionization. Electrochimica Acta, 2022, 409, 139983.	5.2	12
69	Hybrid fluorophores-based fluorogenic paper device for visually high-throughput detection of Cu2+ in real samples. Dyes and Pigments, 2019, 170, 107639.	3.7	11
70	SnS Nanoparticles Grown on Sn-Atom-Modified N,S-Codoped Mesoporous Carbon Nanosheets as Electrocatalysts for CO₂ Reduction to Formate. ACS Applied Nano Materials, 2021, 4, 2257-2264.	5.0	11
71	Optimizing the microstructure of carbon nano-honeycombs for high-energy sodium-ion capacitor. Electrochimica Acta, 2022, 403, 139675.	5.2	11
72	Enhanced photoelectroctatlytic performance of etched 3Câ€“SiC thin film for water splitting under visible light. RSC Advances, 2014, 4, 54441-54446.	3.6	10

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73	Boosting selective H₂ sensing of ZnO derived from ZIF-8 by rGO functionalization. Inorganic Chemistry Frontiers, 2022, 9, 599-606.	6.0	10
74	CNT@leather-based electronic bidirectional pressure sensor. Science China Technological Sciences, 2020, 63, 2137-2146.	4.0	8
75	Metalâ€“Organic Frameworks as Metal Ion Precursors for the Synthesis of Nanocomposites for Lithiumâ€ion Batteries. Angewandte Chemie, 2020, 132, 4793-4799.	2.0	7
76	Tailored amorphous titanium oxide and carbon composites for enhanced pseudocapacitive sodium storage. Journal of Energy Chemistry, 2022, 65, 127-132.	12.9	7
77	Rational design of Ni3(HITP)2@GO composite for lithium-sulfur cathode. Applied Surface Science, 2022, 572, 151479.	6.1	7
78	Rambutanâ€Inspired Yolkâ€Shell Silica@Carbon Frameworks from Biomass for Longâ€Life Anode Materials. ChemistrySelect, 2019, 4, 14075-14081.	1.5	5
79	Three-Dimensional Multilayered Interconnected Network of Conjugated Carbon Nanofibers Encapsulated Silicon/Graphene Oxide for Lithium Storage. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 801-807.	3.7	5
80	An in situ decorated cathode with LiF and F@C for performance enhanced Liâ€“S batteries. Chemical Communications, 2020, 56, 6444-6447.	4.1	5
81	Modifiers versus Channels: Creating Shapeâ€Selective Catalysis of Metal Nanoparticles/Porous Nanomaterials. Angewandte Chemie, 2021, 133, 989-995.	2.0	3
82	A leather-based electrolyte for all-in-one configured flexible supercapacitors. Chemical Communications, 2022, 58, 7070-7073.	4.1	1