Songmei Li

List of Publications by Year
in descending order

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		159585	144013
81	3,385	30	57
papers	citations	h-index	g-index

81	81	81	5365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast Zincâ€“Ionâ€“Conductor Interface toward Highâ€Rate and Stable Zinc Metal Batteries. Advanced Energy Materials, 2021, 11, 2100186.	19.5	223
2	Vertically Aligned Sulfurâ€“Graphene Nanowalls on Substrates for Ultrafast Lithiumâ€“Sulfur Batteries. Nano Letters, 2015, 15, 3073-3079.	9.1	183
3	Flexible Ti3C2 MXene-lithium film with lamellar structure for ultrastable metallic lithium anodes. Nano Energy, 2017, 39, 654-661.	16.0	163
4	Conversion of non-van der Waals solids to 2D transition-metal chalcogenides. Nature, 2020, 577, 492-496.	27.8	145
5	Dendriteâ€Free Metallic Lithium in Lithiophilic Carbonized Metalâ€“Organic Frameworks. Advanced Energy Materials, 2018, 8, 1703505.	19.5	144
6	Polyhedralâ€Like NiMnâ€Layered Double Hydroxide/Porous Carbon as Electrode for Enhanced Electrochemical Performance Supercapacitors. Small, 2017, 13, 1702616.	10.0	140
7	Selective Etching Quaternary MAX Phase toward Single Atom Copper Immobilized MXene (Ti₃C₂Cl_x) for Efficient CO₂ Electroreduction to Methanol. ACS Nano, 2021, 15, 4927-4936.	14.6	139
8	Homogeneous guiding deposition of sodium through main group II metals toward dendrite-free sodium anodes. Science Advances, 2019, 5, eaau6264.	10.3	130
9	Polyaniline-Grafted Graphene Hybrid with Amide Groups and Its Use in Supercapacitors. Journal of Physical Chemistry C, 2012, 116, 19699-19708.	3.1	124
10	From Commercial Sponge Toward 3D Grapheneâ€“Silicon Networks for Superior Lithium Storage. Advanced Energy Materials, 2015, 5, 1500289.	19.5	114
11	In situ one-step synthesis of CoFe2O4/graphene nanocomposites as high-performance anode for lithium-ion batteries. Electrochimica Acta, 2014, 129, 33-39.	5.2	113
12	A new configured lithiated siliconâ€“sulfur battery built on 3D graphene with superior electrochemical performances. Energy and Environmental Science, 2016, 9, 2025-2030.	30.8	98
13	NiCo₂S₄ nanotube arrays grown on flexible nitrogen-doped carbon foams as three-dimensional binder-free integrated anodes for high-performance lithium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 4505-4512.	2.8	90
14	Gradientâ€Distributed Nucleation Seeds on Conductive Host for a Dendriteâ€Free and Highâ€Rate Lithium Metal Anode. Small, 2019, 15, e1903520.	10.0	83
15	Hierarchical NiMoO₄nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. Physical Chemistry Chemical Physics, 2016, 18, 908-915.	2.8	82
16	Ligninâ€derived electrochemical energy materials and systems. Biofuels, Bioproducts and Biorefining, 2020, 14, 650-672.	3.7	73
17	Integration of network-like porous NiMoO₄ nanoarchitectures assembled with ultrathin mesoporous nanosheets on three-dimensional graphene foam for highly reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 13691-13698.	10.3	72
18	Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. Journal of Materials Chemistry A, 2016, 4, 11789-11799.	10.3	71

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19	Fabrication of inhibitor anion-intercalated layered double hydroxide host films on aluminum alloy 2024 and their anticorrosion properties. Journal of Coatings Technology Research, 2015, 12, 293-302.	2.5	57
20	Preparation and evaluation of the microwave absorption properties of template-free graphene foam-supported Ni nanoparticles. RSC Advances, 2017, 7, 14733-14741.	3.6	56
21	Hydrothermal synthesis of NiCo 2 O 4 nanowires/nitrogen-doped graphene for high-performance supercapacitor. Applied Surface Science, 2014, 314, 1000-1006.	6.1	55
22	Self-assembly of ultrathin mesoporous CoMoO₄ nanosheet networks on flexible carbon fabric as a binder-free anode for lithium-ion batteries. New Journal of Chemistry, 2016, 40, 2259-2267.	2.8	51
23	From biomass chitin to mesoporous nanosheets assembled loofa sponge-like N-doped carbon/g-C 3 N 4 3D network architectures as ultralow-cost bifunctional oxygen catalysts. Microporous and Mesoporous Materials, 2017, 240, 216-226.	4.4	51
24	Continuously 3D printed quantum dot-based electrodes for lithium storage with ultrahigh capacities. Journal of Materials Chemistry A, 2018, 6, 19960-19966.	10.3	49
25	A facile approach to superhydrophobic LiAl-layered double hydroxide film on Alâ€“Li alloy substrate. Journal of Coatings Technology Research, 2015, 12, 595-601.	2.5	47
26	In situ template synthesis of hollow nanospheres assembled from NiCo₂S₄@C ultrathin nanosheets with high electrochemical activities for lithium storage and ORR catalysis. Physical Chemistry Chemical Physics, 2017, 19, 11554-11562.	2.8	47
27	An artificial TiO₂/lithium n-butoxide hybrid SEI layer with facilitated lithium-ion transportation ability for stable lithium anodes. Nanoscale, 2019, 11, 2194-2201.	5.6	43
28	Mesoporous Hybrid Electrolyte for Simultaneously Inhibiting Lithium Dendrites and Polysulfide Shuttle in Liâ€“S Batteries. Advanced Energy Materials, 2018, 8, 1703124.	19.5	42
29	Ultralight Interconnected Grapheneâ€“Amorphous Carbon Hierarchical Foam with Mechanical Resiliency for High Sensitivity and Durable Strain Sensors. ACS Applied Materials & Interfaces, 2017, 9, 27127-27134.	8.0	41
30	High-Throughput Production of 1T MoS₂ Monolayers Based on Controllable Conversion of Mo-Based MXenes. ACS Nano, 2021, 15, 19275-19283.	14.6	32
31	Electrophoretic deposition of hierarchical Co₃O₄@graphene hybrid films as binder-free anodes for high-performance lithium-ion batteries. RSC Advances, 2015, 5, 33438-33444.	3.6	31
32	Mesoporous Hollow Nested Nanospheres of Ni, Cu, Co-Based Mixed Sulfides for Electrocatalytic Oxygen Reduction and Evolution. ACS Applied Nano Materials, 2019, 2, 4921-4932.	5.0	30
33	In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. Electrochemical Energy Reviews, 2019, 2, 467-491.	25.5	30
34	Bioinspired synthesis of Ag@TiO2 plasmonic nanocomposites to enhance the light harvesting of dye-sensitized solar cells. RSC Advances, 2013, 3, 18587.	3.6	29
35	Facile and large-scale fabrication of hierarchical ZnFe₂O₄/graphene hybrid films as advanced binder-free anodes for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 1725-1733.	2.8	29
36	A liquid metal-based self-adaptive sulfurâ€“gallium composite for long-cycling lithiumâ€“sulfur batteries. Nanoscale, 2019, 11, 412-417.	5.6	29

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37	Pre-planted nucleation seeds for rechargeable metallic lithium anodes. Journal of Materials Chemistry A, 2017, 5, 18862-18869.	10.3	28
38	Graphene foam supported multilevel network-like NiCo2S4 nanoarchitectures for robust lithium storage and efficient ORR catalysis. New Journal of Chemistry, 2017, 41, 115-125.	2.8	25
39	Endowing the Lithium Metal Surface with Self-Healing Property via an in Situ Gasâ€“Solid Reaction for High-Performance Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28878-28884.	8.0	24
40	Interlamellar Lithiumâ€Ion Conductor Reformed Interface for High Performance Lithium Metal Anode. Advanced Functional Materials, 2021, 31, 2102336.	14.9	23
41	Atomic Layers of MoO₂ with Exposed Highâ€Energy (010) Facets for Efficient Oxygen Reduction. Small, 2018, 14, e1703960.	10.0	22
42	Controllable synthesis of micro/nano-structured MnCo₂O₄ with multiporous coreâ€“shell architectures as high-performance anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 8416-8423.	2.8	21
43	Mesoporous Ni Co based nanowire arrays supported on three-dimensional N-doped carbon foams as non-noble catalysts for efficient oxygen reduction reaction. Microporous and Mesoporous Materials, 2016, 231, 128-137.	4.4	20
44	Mo₂C-embedded biomass-derived honeycomb-like nitrogen-doped carbon nanosheet/graphene aerogel films for highly efficient electrocatalytic hydrogen evolution. New Journal of Chemistry, 2020, 44, 1147-1156.	2.8	20
45	Anchoring nano-sulfur on flat graphene as cathode material for lithiumâ€“sulfur battery. RSC Advances, 2015, 5, 40310-40315.	3.6	19
46	Enhancement of active anticorrosion via Ce-doped Zn-Al layered double hydroxides embedded in sol-gel coatings on aluminum alloy. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1199-1204.	1.0	19
47	One-step synthesis of the nickel foam supported network-like ZnO nanoarchitectures assembled with ultrathin mesoporous nanosheets with improved lithium storage performance. RSC Advances, 2015, 5, 81341-81347.	3.6	18
48	Graphene-supported mesoporous titania nanosheets for efficient photodegradation. Journal of Colloid and Interface Science, 2017, 505, 711-718.	9.4	18
49	DNA assembled single-walled carbon nanotube nanocomposites for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 11070.	10.3	15
50	Guiding confined deposition of lithium through the conductivity changing interface within a hierarchical heterostructure toward dendrite-free lithium anodes. Carbon, 2020, 168, 633-639.	10.3	13
51	Superior methanol electrooxidation activity and CO tolerance of mesoporous helical nanospindle-like CeO₂ modified Pt/C. RSC Advances, 2015, 5, 64261-64267.	3.6	12
52	Surface characteristics of anodic oxide films fabricated in acid and neutral electrolytes on Tiâ€“10Vâ€“2Feâ€“3Al alloy. Surface and Interface Analysis, 2013, 45, 661-666.	1.8	11
53	Siloxane based copolymer sulfur as binder-free cathode for advances lithium-sulfur batteries. Journal of Colloid and Interface Science, 2020, 574, 190-196.	9.4	11
54	Evolution of Microstructure and Precipitates with Cycle Annealing Temperature of an Alâ€“6Mgâ€“Mnâ€“Scâ€“Zr Alloy. Materials and Manufacturing Processes, 2007, 22, 1-4.	4.7	9

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55	Effect of electrolyte concentration on morphology, microstructure and electrochemical impedance of anodic oxide film on titanium alloy Ti-10Vâ€“2Feâ€“3Al. Journal of Applied Electrochemistry, 2010, 40, 1545-1553.	2.9	9
56	Effect of electropolishing on electrochemical behaviours of titanium alloy Ti-10V-2Fe-3Al. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 469-477.	1.0	9
57	Surface analysis of chemical stripping titanium alloy oxide films. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 399-404.	1.0	9
58	Multi-functional DNA-based synthesis of SWNTs@(TiO₂/Ag/Au) nanocomposites for enhanced light-harvesting and charge collection in DSSCs. RSC Advances, 2015, 5, 5604-5610.	3.6	9
59	Bioinspired hierarchical cross-linked grapheneâ€“silicon nanofilms via synergistic interfacial interactions as integrated negative electrodes for high-performance lithium storage. Physical Chemistry Chemical Physics, 2020, 22, 2105-2114.	2.8	8
60	Super helical Au/TiO2 nanocomposites based on plasmid DNA for efficiency dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 4138-4145.	2.2	7
61	Improvement of Corrosion Protection of Coating System via Inhibitor Response Order. Coatings, 2018, 8, 365.	2.6	7
62	Long-term cycling stability of NiCo₂S₄ hollow nanowires supported on biomass-derived ultrathin N-doped carbon 3D networks as an anode for lithium-ion batteries. Chemical Communications, 2021, 57, 1002-1005.	4.1	7
63	Unique structure and mechanical property of Dabryanus scale. Journal of Bionic Engineering, 2016, 13, 641-649.	5.0	6
64	Corrosion behavior of ultra-high strength steel 300M in different simulated marine environments. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 372-378.	1.0	6
65	Effects of electroplated coatings on corrosion behavior of Ti-1023/30CrMnSiA galvanic couple. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 704-707.	1.0	5
66	EIS characterization of sealed anodic oxide films on titanium alloy Ti-10V-2Fe-3Al. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 599-605.	1.0	5
67	Fast Cryomediated Dynamic Equilibrium Hydrolysates towards Grain Boundary-Enriched Platinum Scaffolds for Efficient Methanol Oxidation. Research, 2019, 2019, 8174314.	5.7	5
68	Preparation and characterization of Ni-P hollow material based on the shape of Nocadia. Science Bulletin, 2008, 53, 3235-3239.	9.0	4
69	INFLUENCE OF THIOBACILLUS FERROXIDANS BIOFILM ON THE CORROSION BEHAVIOR OF STEEL A3. International Journal of Modern Physics B, 2010, 24, 3083-3088.	2.0	4
70	Synthesis and magnetic properties of BaTiO3-CoxFe3-xO4 core-shell particles by homogeneous coprecipitation. Journal of Electroceramics, 2013, 31, 96-101.	2.0	4
71	Effect of pre-corrosion on fatigue life of high strength steel 38CrMoAl. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 648-653.	1.0	3
72	Theoretical and experimental studies of passivity breakdown of Aermet 100 ultraâ€high stainless steel in chloride ion medium. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 2020-2032.	1.5	3

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73	Effect of Solution and Aging Temperatures on Microstructure and Mechanical Properties of 10Cr13Co13Mo5Ni3W1VE(S280) Steel. Micromachines, 2021, 12, 566.	2.9	3
74	Manifestations in corrosion prophase of ultra-high strength steel 30CrMnSiNi2A in sodium chloride solutions. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 367-373.	1.0	2
75	Optically active multi-helical erythrocyte-like Ln(OH)CO₃ (Ln = La, Ce, Pr and Sm). Physical Chemistry Chemical Physics, 2016, 18, 20261-20265.	2.8	2
76	Turning free-standing three-dimensional graphene into electrochemically active by nitrogen doping during chemical vapor deposition process. Journal of Materials Science: Materials in Electronics, 2020, 31, 3759-3768.	2.2	2
77	Effect of Hydrogen on Mechanical Properties of 23Co14Ni12Cr3Mo Ultrahigh Strength Steel. Journal of Materials Engineering and Performance, 2013, 22, 3916-3921.	2.5	1
78	The Interdiffusion Behavior of NiCoCrAlYHf Coating Deposited by Arc Ion Plating on Carburized Ni-Based Single Crystal Superalloy. Materials, 2021, 14, 7401.	2.9	1
79	Self-assembly of near-unity helical Ce_{1â^'x}M_xO₂ (x = 0.1, M =) Tj ETQq1 1 0.784314 rgBT	2.8	0
80	Cover Image, Volume 14, Issue 3. Biofuels, Bioproducts and Biorefining, 2020, 14, i.	3.7	0
81	Effect of Intermetallic Compounds on Pitting Corrosion of Spark Plasma Sintered AA2024. Corrosion, 2022, 78, 572-583.	1.1	0