Jilei Liu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7454338/publications.pdf

Version: 2024-02-01

100	12,505	41344	34986
papers	citations	49 h-index	98 g-index

103	103	103	13244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accurate quantification of TiO2(B)'s phase purity via Raman spectroscopy. Green Energy and Environment, 2023, 8, 1371-1379.	8.7	4
2	Understanding the Synergistic Effects and Structural Evolution of Co(OH)₂ and Co₃O₄ toward Boosting Electrochemical Charge Storage. Advanced Functional Materials, 2022, 32, 2108644.	14.9	102
3	Covalency Competition Induced Active Octahedral Sites in Spinel Cobaltites for Enhanced Pseudocapacitive Charge Storage. Advanced Energy Materials, 2022, 12, 2102053.	19.5	41
4	Insights into the sodium storage mechanism of Bi₂Te₃ nanosheets as superior anodes for sodium-ion batteries. Nanoscale, 2022, 14, 1755-1766.	5.6	18
5	Graphitic carbon nitride-derived high lithium storage capacity graphite material with regular layer structure and the structural evolution mechanism. Electrochimica Acta, 2022, 409, 139985.	5.2	10
6	Transition metal carbonate anodes for Li-ion battery: fundamentals, synthesis and modification. Journal of Energy Chemistry, 2022, 70, 95-120.	12.9	12
7	Ligand Engineering in Nickel Phthalocyanine to Boost the Electrocatalytic Reduction of CO₂. Advanced Functional Materials, 2022, 32, .	14.9	80
8	Stabilizing SEI by cyclic ethers toward enhanced K+ storage in graphite. Journal of Energy Chemistry, 2022, 71, 344-350.	12.9	9
9	Mechanistic insights into the pseudocapacitive performance of bronze-type vanadium dioxide with mono/multi-valent cations intercalation. Journal of Materials Chemistry A, 2022, 10, 10439-10451.	10.3	14
10	Activated Niâ€“OH Bonds in a Catalyst Facilitates the Nucleophile Oxidation Reaction. Advanced Materials, 2022, 34, e2105320.	21.0	47
11	Synergistic Effect, Structural and Morphology Evolution, and Doping Mechanism of Spherical Brâ€Doped Na₃V₂(PO₄)₂F₃/C toward Enhanced Sodium Storage. Small, 2022, 18, e2201719.	10.0	24
12	Aligned InS Nanorods for Efficient Electrocatalytic Carbon Dioxide Reduction. ACS Applied Materials & Interfaces, 2022, 14, 25257-25266.	8.0	25
13	Distinctive Formation of Bifunctional ZnCoS-rGO 3D Hollow Microsphere Flowers with Excellent Energy Storage Performances. Chemistry of Materials, 2022, 34, 5896-5911.	6.7	15
14	Intercalation-deposition mechanism induced by aligned carbon fiber toward dendrite-free metallic potassium batteries. Energy Storage Materials, 2022, 51, 122-129.	18.0	17
15	Constructing high-performance N-doped carbon nanotubes anode by tuning interlayer spacing and the compatibility mechanism with ether electrolyte for sodium-ion batteries. Chemical Engineering Journal, 2022, 446, 137427.	12.7	28
16	A facile strategy towards high capacity and stable Sn anodes for Li-ion battery: Dual-confinement via Sn@SnO2 core-shell nanoparticles embedded in 3D graphitized porous carbon network. Journal of Alloys and Compounds, 2021, 857, 157920.	5.5	13
17	Unraveling the effects of anions in NixAy@CC (A=O, S, P) on Li-sulfur batteries. Materials Today Nano, 2021, 13, 100106.	4.6	5
18	A review of lithium-ion battery safety concerns: The issues, strategies, and testing standards. Journal of Energy Chemistry, 2021, 59, 83-99.	12.9	768

#	Article	IF	Citations
19	Confining Sb nanoparticles in bamboo-like hierarchical porous aligned carbon nanotubes for use as an anode for sodium ion batteries with ultralong cycling performance. Journal of Materials Chemistry A, 2021, 9, 2152-2160.	10.3	28
20	Inorganic Solid Electrolytes for Allâ€Solidâ€State Sodium Batteries: Fundamentals and Strategies for Battery Optimization. Advanced Functional Materials, 2021, 31, 2008165.	14.9	55
21	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the Nâ^'N Bond. Angewandte Chemie, 2021, 133, 7373-7383.	2.0	24
22	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the Nâ^'N Bond. Angewandte Chemie - International Edition, 2021, 60, 7297-7307.	13.8	204
23	Microstructureâ€Dependent K⁺ Storage in Porous Hard Carbon. Small, 2021, 17, e2100397.	10.0	42
24	Fe/Fe₃C Embedded in N-Doped Worm-like Porous Carbon for High-Rate Catalysis in Rechargeable Zincâ€"Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 24710-24722.	8.0	19
25	Oxygen-Containing Functional Groups Regulating the Carbon/Electrolyte Interfacial Properties Toward Enhanced K+ Storage. Nano-Micro Letters, 2021, 13, 192.	27.0	60
26	Coupling Glucoseâ€Assisted Cu(I)/Cu(II) Redox with Electrochemical Hydrogen Production. Advanced Materials, 2021, 33, e2104791.	21.0	126
27	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH)₂ for Biomass Upgrading. Angewandte Chemie - International Edition, 2021, 60, 22908-22914.	13.8	154
28	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH)₂ for Biomass Upgrading. Angewandte Chemie, 2021, 133, 23090-23096.	2.0	8
29	Deciphering the alternating synergy between interlayer Pt single-atom and NiFe layered double hydroxide for overall water splitting. Energy and Environmental Science, 2021, 14, 6428-6440.	30.8	164
30	Optimized Kinetics Match and Charge Balance Toward Potassium Ion Hybrid Capacitors with Ultrahigh Energy and Power Densities. Small, 2020, 16, e2003724.	10.0	62
31	Hydroxyapatite Nanowire-Reinforced Poly(ethylene oxide)-Based Polymer Solid Electrolyte for Application in High-Temperature Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 54637-54643.	8.0	45
32	Cobalt sulfide nanoflakes grown on graphite foam for Na-ion batteries with ultrahigh initial coulombic efficiency. Journal of Materials Chemistry A, 2020, 8, 14900-14907.	10.3	27
33	N-doped carbon sheets arrays embedded with CoP nanoparticles as high-performance cathode for Li-S batteries via triple synergistic effects. Journal of Power Sources, 2020, 455, 227959.	7.8	34
34	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. Advanced Energy Materials, 2020, 10, 1903780.	19.5	138
35	Boosting the Heat Dissipation Performance of Graphene/Polyimide Flexible Carbon Film via Enhanced Throughâ€Plane Conductivity of 3D Hybridized Structure. Small, 2020, 16, e1903315.	10.0	40
36	High-performance potassium ion capacitors enabled by hierarchical porous, large interlayer spacing, active site rich-nitrogen, and sulfur Co-doped carbon. Carbon, 2020, 164, 1-11.	10.3	71

#	Article	IF	Citations
37	Lotus root-like porous carbon for potassium ion battery with high stability and rate performance. Journal of Power Sources, 2020, 466, 228303.	7.8	22
38	A Depth-Profiling Study on the Solid Electrolyte Interface: Bis(fluorosulfuryl)imide Anion toward Improved K⁺ Storage. ACS Applied Energy Materials, 2019, 2, 7942-7951.	5.1	51
39	New insights into the Li-storage mechanism in Î±-Ga2O3 anode and the optimized electrode design. Journal of Power Sources, 2019, 433, 126681.	7.8	38
40	Staging: Unraveling the Potassium Storage Mechanism in Graphite Foam (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970081.	19.5	5
41	Improving Polysulfides Adsorption and Redox Kinetics by the Co₄N Nanoparticle/Nâ€Doped Carbon Composites for Lithiumâ€Sulfur Batteries. Small, 2019, 15, e1901454.	10.0	130
42	Superior Li-ion storage of VS₄ nanowires anchored on reduced graphene. Nanoscale, 2019, 11, 9556-9562.	5.6	35
43	Simultaneous Immobilization and Conversion of Polysulfides on Co₃O₄â€“CoN Heterostructured Mediators toward High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2570-2578.	5.1	18
44	Unraveling the Potassium Storage Mechanism in Graphite Foam. Advanced Energy Materials, 2019, 9, 1900579.	19.5	133
45	Vanadateâ€Based Materials for Liâ€Ion Batteries: The Search for Anodes for Practical Applications. Advanced Energy Materials, 2019, 9, 1803324.	19.5	168
46	Nitrogen configuration dependent holey active sites toward enhanced K+ storage in graphite foam. Journal of Power Sources, 2019, 419, 82-90.	7.8	36
47	Nanocarbonâ€Based Electrocatalysts for Rechargeable Aqueous Li/Znâ€Air Batteries. ChemElectroChem, 2018, 5, 1745-1763.	3.4	34
48	Compact-Nanobox Engineering of Transition Metal Oxides with Enhanced Initial Coulombic Efficiency for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2018, 10, 8955-8964.	8.0	38
49	Paper-like TiO2/graphene-carbon nanotube hybrid electrode with high mass loading: Toward high-performance lithium ion battery. Journal of Alloys and Compounds, 2018, 749, 697-704.	5.5	17
50	High-Crystallinity Urchin-like VS₄ Anode for High-Performance Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 14727-14734.	8.0	74
51	Nanoengineering of 2D tin sulfide nanoflake arrays incorporated on polyaniline nanofibers with boosted capacitive behavior. 2D Materials, 2018, 5, 031005.	4.4	20
52	High-rate and ultra-stable Na-ion storage for Ni3S2 nanoarrays via self-adaptive pseudocapacitance. Electrochimica Acta, 2018, 265, 709-716.	5.2	70
53	Progress in aqueous rechargeable batteries. Green Energy and Environment, 2018, 3, 20-41.	8.7	255
54	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. Advanced Science, 2018, 5, 1700322.	11.2	1,043

#	Article	IF	Citations
55	Self-adaptive electrochemical reconstruction boosted exceptional Li⁺ ion storage in a Cu₃P@C anode. Journal of Materials Chemistry A, 2018, 6, 18821-18826.	10.3	60
56	Doubleâ€Shelled Phosphorus and Nitrogen Codoped Carbon Nanospheres as Efficient Polysulfide Mediator for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Science, 2018, 5, 1800621.	11.2	83
57	Multifunctional Thermal Barrier Application Composite with SiC Nanowires Enhanced Structural Health Monitoring Sensitivity and Interface Performance. ACS Applied Materials & Interfaces, 2018, 10, 27955-27964.	8.0	14
58	Morphology controlled lithium storage in Li₃VO₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	10.3	46
59	Introduction and Literature Background. Springer Theses, 2017, , 1-37.	0.1	1
60	Graphene-based Composites for Electrochemical Energy Storage. Springer Theses, 2017, , .	0.1	10
61	Synergistic capacitive behavior between polyaniline and carbon black. Electrochimica Acta, 2017, 230, 236-244.	5.2	38
62	High-Performance Graphene Foam/Fe3O4 Hybrid Electrode for Lithium Ion Battery. Springer Theses, 2017, , 51-63.	0.1	0
63	Graphene Foam (GF)/Carbon Nanotubes (CNTs) Hybrid Film-Based High-Performance Flexible Asymmetric Supercapacitors. Springer Theses, 2017, , 65-83.	0.1	2
64	Rapid Pseudocapacitive Sodiumâ€Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. Advanced Functional Materials, 2017, 27, 1606232.	14.9	108
65	â€œElectron/Ion Spongeâ€•Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. ACS Nano, 2017, 11, 6911-6920.	14.6	95
66	Space-confinement and chemisorption co-involved in encapsulation of sulfur for lithiumâ€“sulfur batteries with exceptional cycling stability. Journal of Materials Chemistry A, 2017, 5, 24602-24611.	10.3	24
67	1D nanobar-like LiNi_{0.4}Co_{0.2}Mn_{0.4}O₂ as a stable cathode material for lithium-ion batteries with superior long-term capacity retention and high rate capability. Journal of Materials Chemistry A, 2017, 5, 15669-15675.	10.3	51
68	Electrochemical Exfoliation Synthesis of Graphene. Springer Theses, 2017, , 39-50.	0.1	6
69	Graphene Foam/Carbon Nanotubes Hybrid Film Based Flexible Alkaline Rechargeable Ni/Fe Battery. Springer Theses, 2017, , 85-100.	0.1	0
70	Unraveling the Potassium Ion Storage Mechanism in Graphite Foam. ECS Meeting Abstracts, 2017, , .	0.0	0
71	Active sites-enriched hierarchical MoS₂ nanotubes: highly active and stable architecture for boosting hydrogen evolution and lithium storage. Journal of Materials Chemistry A, 2016, 4, 7565-7572.	10.3	44
72	Electrocatalytically Active Graphene supported MMo Carbides (M Ni, Co) for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 216, 246-252.	5.2	27

#	Article	IF	Citations
73	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. Nature Communications, 2016, 7, 12122.	12.8	1,232
74	MoS2 nanosheets decorated Ni3S2@MoS2 coaxial nanofibers: Constructing an ideal heterostructure for enhanced Na-ion storage. Nano Energy, 2016, 20, 1-10.	16.0	178
75	Aqueous Rechargeable Alkaline Co_xNi_{2â€“x}S₂/TiO₂ Battery. ACS Nano, 2016, 10, 1007-1016.	14.6	123
76	Nitrogen-doped Graphene-Supported Transition-metals Carbide Electrocatalysts for Oxygen Reduction Reaction. Scientific Reports, 2015, 5, 10389.	3.3	77
77	MoS₂ architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 17534-17543.	10.3	51
78	Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. ACS Nano, 2015, 9, 5198-5207.	14.6	441
79	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. ACS Nano, 2015, 9, 8609-8616.	14.6	116
80	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23283-23288.	10.3	103
81	Graphene Quantum Dots Coated VO₂ Arrays for Highly Durable Electrodes for Li and Na Ion Batteries. Nano Letters, 2015, 15, 565-573.	9.1	493
82	A Flexible Alkaline Rechargeable Ni/Fe Battery Based on Graphene Foam/Carbon Nanotubes Hybrid Film. Nano Letters, 2014, 14, 7180-7187.	9.1	346
83	TiO2 nanotube @ SnO2 nanoflake coreâ€“branch arrays for lithium-ion battery anode. Nano Energy, 2014, 4, 105-112.	16.0	165
84	Ni3S2@MoS2 core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. Nano Energy, 2014, 7, 151-160.	16.0	245
85	Hollow nickel nanocorn arrays as three-dimensional and conductive support for metal oxides to boost supercapacitive performance. Nanoscale, 2014, 6, 5691-5697.	5.6	42
86	High-performance flexible asymmetric supercapacitors based on a new graphene foam/carbon nanotube hybrid film. Energy and Environmental Science, 2014, 7, 3709-3719.	30.8	557
87	Selfâ€Assembly of Honeycombâ€like MoS₂ Nanoarchitectures Anchored into Graphene Foam for Enhanced Lithiumâ€Ion Storage. Advanced Materials, 2014, 26, 7162-7169.	21.0	408
88	Porous Î±-Fe 2 O 3 nanorods supported on carbon nanotubes-graphene foam as superior anode for lithium ion batteries. Nano Energy, 2014, 9, 364-372.	16.0	241
89	A V₂O₅/Conductiveâ€Polymer Core/Shell Nanobelt Array on Threeâ€Dimensional Graphite Foam: A Highâ€Rate, Ultrastable, and Freestanding Cathode for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 5794-5800.	21.0	450
90	Facile fabrication of hierarchical ZnCo₂O₄/NiO core/shell nanowire arrays with improved lithium-ion battery performance. Nanoscale, 2014, 6, 6563-6568.	5.6	73

#	Article	IF	Citations
91	Three dimensionals Î±-Fe2O3/polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. Nano Energy, 2013, 2, 726-732.	16.0	102
92	Three-Dimensional Graphene Foam Supported Fe₃O₄ Lithium Battery Anodes with Long Cycle Life and High Rate Capability. Nano Letters, 2013, 13, 6136-6143.	9.1	738
93	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. Nano Energy, 2013, 2, 377-386.	16.0	200
94	A green approach to the synthesis of high-quality graphene oxide flakes via electrochemical exfoliation of pencil core. RSC Advances, 2013, 3, 11745.	3.6	142
95	Repeated microwave-assisted exfoliation of expandable graphite for the preparation of large scale and high quality multi-layer graphene. RSC Advances, 2013, 3, 11601.	3.6	35
96	Rationally Designed Hierarchical TiO₂@Fe₂O₃ Hollow Nanostructures for Improved Lithium Ion Storage. Advanced Energy Materials, 2013, 3, 737-743.	19.5	296
97	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. Nano Energy, 2012, 1, 723-731.	16.0	78
98	Carbon Nanotube-Based Materials for Fuel Cell Applications. Australian Journal of Chemistry, 2012, 65, 1213.	0.9	31
99	Flexible single-walled carbon nanotubes/polyaniline composite films and their enhanced thermoelectric properties. Nanoscale, 2011, 3, 3616.	5.6	99
100	A Promising Way To Enhance the Electrochemical Behavior of Flexible Single-Walled Carbon Nanotube/Polyaniline Composite Films. Journal of Physical Chemistry C, 2010, 114, 19614-19620.	3.1	103