

Xiao-Xia Liu

List of Publications by Year in descending order

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107
papers

5,737
citations

93792

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90395

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all docs

109
docs citations

109
times ranked

7837
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing the leucoemeraldine-emeraldine-pernigraniline redox reactions in polyaniline cathode materials for aqueous zinc-polymer batteries. <i>Chemical Engineering Journal</i> , 2022, 427, 131988.	6.6	40
2	Electrode and electrolyte regulation to promote coulombic efficiency and cycling stability of aqueous zinc-iodine batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131283.	6.6	43
3	Disproportionation enabling reversible MnO ₂ /Mn ²⁺ transformation in a mild aqueous Zn-MnO ₂ hybrid battery. <i>Chemical Engineering Journal</i> , 2022, 430, 133064.	6.6	33
4	Regulating the electro-deposition behavior of Fe metal anode and the applications in rechargeable aqueous iron-iodine batteries. <i>Chemical Engineering Journal</i> , 2022, 432, 134389.	6.6	12
5	Protonating imine sites of polyaniline for aqueous zinc batteries. <i>Chemical Communications</i> , 2022, 58, 1693-1696.	2.2	17
6	Enabling Reversible MnO ₂ /Mn ²⁺ Transformation by Al ³⁺ Addition for Aqueous Zn-MnO ₂ Hybrid Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10526-10534.	4.0	20
7	Decavanadate Doped Polyaniline for Aqueous Zinc Batteries. <i>Small</i> , 2022, 18, e2107689.	5.2	32
8	The back-deposition of dissolved Mn ²⁺ to MnO ₂ cathodes for stable cycling in aqueous zinc batteries. <i>Chemical Communications</i> , 2022, 58, 4845-4848.	2.2	3
9	High-Voltage Manganese Oxide Cathode with Two-Electron Transfer Enabled by a Phosphate Proton Reservoir for Aqueous Zinc Batteries. <i>ACS Energy Letters</i> , 2022, 7, 1814-1819.	8.8	33
10	Ammonium-Ion Storage Using Electrodeposited Manganese Oxides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5718-5722.	7.2	155
11	The energy storage behavior of a phosphate-based cathode material in rechargeable zinc batteries. <i>Chemical Communications</i> , 2021, 57, 6253-6256.	2.2	10
12	Ammonium-Ion Storage Using Electrodeposited Manganese Oxides. <i>Angewandte Chemie</i> , 2021, 133, 5782-5786.	1.6	26
13	A Manganese Phosphate Cathode for Long-Life Aqueous Energy Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2100477.	7.8	31
14	The controlled quinone introduction and conformation modification of polyaniline cathode materials for rechargeable aqueous zinc-polymer batteries. <i>Chemical Engineering Journal</i> , 2021, 419, 129659.	6.6	35
15	Fundamental understanding of the proton and zinc storage in vanadium oxide for aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 419, 129491.	6.6	45
16	Electrochemical <i>in situ</i> construction of vanadium oxide heterostructures with boosted pseudocapacitive charge storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1176-1183.	5.2	43
17	Activating the Highly Reversible Mo ⁴⁺ /Mo ⁵⁺ Redox Couple in Amorphous Molybdenum Oxide for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48565-48571.	4.0	28
18	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 118.	14.4	146

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19	Heterojunction induced activation of iron oxide anode for high-power aqueous batteries. <i>Chemical Engineering Journal</i> , 2020, 400, 125874.	6.6	21
20	Frontispiece: The Development of Vanadyl Phosphate Cathode Materials for Energy Storage Systems: A Review. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	0
21	The Development of Vanadyl Phosphate Cathode Materials for Energy Storage Systems: A Review. <i>Chemistry - A European Journal</i> , 2020, 26, 8190-8204.	1.7	21
22	Cobalt-Containing Nanoporous Nitrogen-Doped Carbon Nanocuboids from Zeolite Imidazole Frameworks for Supercapacitors. <i>Nanomaterials</i> , 2019, 9, 1110.	1.9	21
23	A polyanionic molybdenophosphate anode for a 2.7 V aqueous pseudocapacitor. <i>Nano Energy</i> , 2019, 65, 104010.	8.2	55
24	A Zn(ClO ₄) ₂ Electrolyte Enabling Long-Life Zinc Metal Electrodes for Rechargeable Aqueous Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42000-42005.	4.0	111
25	Inhibiting VOPO ₄ ·xH ₂ O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <i>Angewandte Chemie</i> , 2019, 131, 16203-16207.	1.6	6
26	Inhibiting VOPO ₄ ·xH ₂ O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16057-16061.	7.2	125
27	3D Exfoliated Carbon Paper toward Highly Loaded Aqueous Energy Storage Applications. <i>Energy Technology</i> , 2019, 7, 1900892.	1.8	9
28	Extending the cycle life of high mass loading MoO _x electrode for supercapacitor applications. <i>Electrochimica Acta</i> , 2019, 325, 134877.	2.6	20
29	Boosting the pseudocapacitance of nitrogen-rich carbon nanorod arrays for electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12086-12094.	5.2	32
30	Strongly coupled polypyrrole/molybdenum oxide hybrid films via electrochemical layer-by-layer assembly for pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9815-9821.	5.2	28
31	Immobilization of phosphotungstate through doping in polypyrrole for supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 6812-6816.	1.6	8
32	A high performance tungsten bronze electrode in a mixed electrolyte and applications in supercapacitors. <i>Chemical Communications</i> , 2019, 55, 14323-14326.	2.2	7
33	Boosting operating voltage of vanadium oxide-based symmetric aqueous supercapacitor to 2 V. <i>Chemical Engineering Journal</i> , 2019, 358, 1529-1538.	6.6	39
34	Electrochemical fabrication of interconnected tungsten bronze nanosheets for high performance supercapacitor. <i>Journal of Power Sources</i> , 2018, 383, 17-23.	4.0	17
35	Hybrid Iron Oxide on Three-Dimensional Exfoliated Graphite Electrode with Ultrahigh Capacitance for Energy Storage Applications. <i>ChemElectroChem</i> , 2018, 5, 1501-1508.	1.7	8
36	Electrochemical deposition of highly loaded polypyrrole on individual carbon nanotubes in carbon nanotube film for supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 337, 552-559.	6.6	77

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37	Nitrogen-doped carbon "spider webs" derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. <i>Journal of Materials Research</i> , 2018, 33, 1109-1119.	1.2	16
38	High Mass Loading MnO ₂ with Hierarchical Nanostructures for Supercapacitors. <i>ACS Nano</i> , 2018, 12, 3557-3567.	7.3	447
39	The construction of a sandwich structured Co ₃ O ₄ @C@PPy electrode for improving pseudocapacitive storage. <i>RSC Advances</i> , 2018, 8, 33374-33382.	1.7	15
40	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801784.	10.2	97
41	VO _x /MoO ₃ Nanorod Composite for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803901.	7.8	52
42	Morphology engineering of electro-deposited iron oxides for aqueous rechargeable Ni/Fe battery applications. <i>Chemical Engineering Journal</i> , 2018, 354, 672-679.	6.6	22
43	Highly loaded manganese oxide with high rate capability for capacitive applications. <i>Journal of Power Sources</i> , 2018, 396, 238-245.	4.0	19
44	Amorphous Mixed-Valence Vanadium Oxide/Exfoliated Carbon Cloth Structure Shows a Record High Cycling Stability. <i>Small</i> , 2017, 13, 1700067.	5.2	119
45	Concurrent electropolymerization of aniline and electrochemical deposition of tungsten oxide for supercapacitor. <i>Journal of Power Sources</i> , 2017, 342, 980-989.	4.0	38
46	Electrochemical Growth of Polyaniline Nanowire Arrays on Graphene Sheets in Partially Exfoliated Graphite Foil for High-Performance Supercapacitive Materials. <i>Electrochimica Acta</i> , 2017, 240, 72-79.	2.6	27
47	Electrochemical deposition of honeycomb magnetite on partially exfoliated graphite as anode for capacitive applications. <i>Journal of Power Sources</i> , 2017, 359, 57-63.	4.0	14
48	Amorphous NiFe(oxy)hydroxide nanosheet integrated partially exfoliated graphite foil for high efficiency oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24208-24216.	5.2	63
49	Rate capability improvement of Co~Ni double hydroxides integrated in cathodically partially exfoliated graphite. <i>Journal of Power Sources</i> , 2017, 365, 126-133.	4.0	29
50	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. <i>Nanoscale</i> , 2017, 9, 13119-13127.	2.8	108
51	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. <i>ACS Energy Letters</i> , 2017, 2, 1752-1759.	8.8	146
52	Tri-layered graphite foil for electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7683-7688.	5.2	43
53	Rate capability improvement of polypyrrole via integration with functionalized commercial carbon cloth for pseudocapacitor. <i>Journal of Power Sources</i> , 2016, 324, 788-797.	4.0	72
54	Pushing the Cycling Stability Limit of Polypyrrole for Supercapacitors. <i>Advanced Functional Materials</i> , 2015, 25, 4626-4632.	7.8	234

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55	Integration of nickel-cobalt double hydroxide nanosheets and polypyrrole films with functionalized partially exfoliated graphite for asymmetric supercapacitors with improved rate capability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14712-14720.	5.2	65
56	Loading of a Coordination Polymer Nanobelt on a Functional Carbon Fiber: A Feasible Strategy for Visible-Light-Active and Highly Efficient Coordination-Polymer-Based Photocatalysts. <i>Chemistry - A European Journal</i> , 2015, 21, 3821-3830.	1.7	25
57	Controlled partial-exfoliation of graphite foil and integration with MnO ₂ nanosheets for electrochemical capacitors. <i>Nanoscale</i> , 2015, 7, 3581-3587.	2.8	91
58	Density, dynamic viscosity, and electrical conductivity of two hydrophobic functionalized ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015, 90, 39-45.	1.0	39
59	Ordered Polypyrrole Nanowire Arrays Grown on a Carbon Cloth Substrate for a High-Performance Pseudocapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25506-25513.	4.0	92
60	Self-doped polyaniline/molybdenum oxide composite nanorods for supercapacitors. <i>RSC Advances</i> , 2015, 5, 75374-75379.	1.7	12
61	Molar heat capacity and thermodynamic properties of N-alkylpyridinium hexafluorophosphate salts, [C _n py][PF ₆] (n=2, 3, 5). <i>Journal of Chemical Thermodynamics</i> , 2014, 68, 82-89.	1.0	10
62	Electrochemical anchoring of dual doping polypyrrole on graphene sheets partially exfoliated from graphite foil for high-performance supercapacitor electrode. <i>Journal of Power Sources</i> , 2014, 249, 48-58.	4.0	154
63	Electrodeposition of vanadium oxide-polyaniline composite nanowire electrodes for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10882-10888.	5.2	165
64	Photocatalytic activity of transition-metal-ion-doped coordination polymer (CP): photoresponse region extension and quantum yields enhancement via doping of transition metal ions into the framework of CPs. <i>Dalton Transactions</i> , 2014, 43, 8805-8813.	1.6	40
65	Synthesis, structural characterization, and photocatalytic study of transition metal coordination polymers constructed from mixed ligands. <i>Journal of Coordination Chemistry</i> , 2014, 67, 2301-2311.	0.8	3
66	Electrochemical Codeposition of Vanadium Oxide and Polypyrrole for High-Performance Supercapacitor with High Working Voltage. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12656-12664.	4.0	120
67	Density, dynamic viscosity, and electrical conductivity of pyridinium-based hydrophobic ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 66, 88-94.	1.0	48
68	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. <i>Nanoscale</i> , 2013, 5, 7984.	2.8	253
69	Thermodynamic Properties of a New Hydrophobic Amide-Based Task-Specific Ionic Liquid [EimCH ₂ CONHBu][NTf ₂]. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 93-98.	1.0	11
70	Fabrication of a PANI/CPs composite material: a feasible method to enhance the photocatalytic activity of coordination polymers. <i>Dalton Transactions</i> , 2013, 42, 4031.	1.6	20
71	Theoretical study on polyaniline gas sensors: Examinations of response mechanism for alcohol. <i>Synthetic Metals</i> , 2012, 162, 862-867.	2.1	27
72	Density, Electrical Conductivity, and Dynamic Viscosity of <i>N</i> -Alkyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2999-3004.	1.0	21

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73	A FIRST PRINCIPLE ANALYSIS ON THE STRUCTURAL AND PHOTO-INDUCED CHARGE TRANSFER IN RUTHENIUM COMPLEXES OF HEXAAZATRIPHENYLENE. <i>Journal of Theoretical and Computational Chemistry</i> , 2012, 11, 895-905.	1.8	5
74	Self-doped polyaniline on functionalized carbon cloth as electroactive materials for supercapacitor. <i>Electrochimica Acta</i> , 2012, 64, 17-22.	2.6	111
75	Synthesis, Characterization and Fluorescent Property of Two Mixed Ligand Coordination Polymers Constructed from 4-Cyclohexene-1,2-dicarboxylate and Nitrogen-Containing Ligands. <i>Journal of Chemical Crystallography</i> , 2011, 41, 453-457.	0.5	1
76	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. <i>Journal of Power Sources</i> , 2011, 196, 5209-5214.	4.0	102
77	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <i>Carbon</i> , 2011, 49, 3488-3496.	5.4	260
78	Syntheses of polyaniline/ordered mesoporous carbon composites with interpenetrating framework and their electrochemical capacitive performance in alkaline solution. <i>Journal of Power Sources</i> , 2011, 196, 1608-1614.	4.0	55
79	Electrodeposition and pseudocapacitive properties of tungsten oxide/polyaniline composite. <i>Journal of Power Sources</i> , 2011, 196, 4842-4848.	4.0	115
80	One-dimensional growth and electrochemical properties of polyaniline deposited by a pulse potentiostatic method. <i>Electrochimica Acta</i> , 2010, 55, 7175-7181.	2.6	31
81	Synthesis and pseudocapacitive studies of composite films of polyaniline and manganese oxide nanoparticles. <i>Journal of Power Sources</i> , 2010, 195, 3742-3747.	4.0	192
82	Electrochemical codeposition of nickel oxide and polyaniline. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1-7.	1.2	30
83	Influence of the zero dispersion wavelength fluctuation on the gain and noise performance in dual-pump fiber parametric amplifiers. <i>Optoelectronics Letters</i> , 2010, 6, 367-370.	0.4	2
84	Synthesis, crystal structure of ruthenium 1,2-naphthoquinone-1-oxime complex and its mediated C ₁ ≡C coupling reactions of terminal alkynes. <i>Chinese Journal of Chemistry</i> , 2010, 21, 1315-1319.	2.6	5
85	Encapsulation of polyaniline in 3-D interconnected mesopores of silica KIT-6. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 353-358.	5.0	39
86	Syntheses, characterizations and theoretical calculations of rhodium(III) 1,2-naphthoquinone-1-oxime complexes. <i>Inorganica Chimica Acta</i> , 2010, 363, 949-956.	1.2	7
87	Electrochemical synthesis of WO ₃ /PANI composite for electrocatalytic reduction of iodate. <i>Electrochimica Acta</i> , 2010, 55, 3915-3920.	2.6	60
88	Humidity sensors based on polyaniline nanofibres. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 530-534.	4.0	179
89	Immobilization of molybdenum oxide in polyaniline and electrocatalytic properties of the composite modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 73-77.	4.0	15
90	Self-assembly of reduced molybdophosphate-based supramolecular architectures and the study of their magnetic properties. <i>Transition Metal Chemistry</i> , 2009, 34, 571-577.	0.7	1

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91	Synthesis, characterization and magnetic properties of coordination polymers of manganese with 1,1'-biphenyl-2,2'-dicarboxylic acid ligands. <i>Transition Metal Chemistry</i> , 2009, 34, 827-833.	0.7	2
92	pH-controlled morphological structure of polyaniline during electrochemical deposition. <i>Electrochimica Acta</i> , 2009, 54, 6172-6177.	2.6	59
93	Mixed-ligand coordination polymers constructed from flexible 2,2'-biphenyldicarboxylate and rigid isomeric bipyridines. <i>Polyhedron</i> , 2009, 28, 2997-3004.	1.0	4
94	Electrodeposited hybrid films of polyaniline and manganese oxide in nanofibrous structures for electrochemical supercapacitor. <i>Electrochimica Acta</i> , 2008, 53, 3036-3042.	2.6	96
95	Chemical anchoring of silica nanoparticles onto polyaniline chains via electro-co-polymerization of aniline and N-substituted aniline grafted on surfaces of SiO ₂ . <i>Electrochimica Acta</i> , 2008, 53, 4693-4698.	2.6	22
96	Electrodeposition of hybrid film of polyaniline/silica and its pseudocapacitive properties. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 909-912.	1.2	8
97	Electrodepositions and capacitive properties of hybrid films of polyaniline and manganese dioxide with fibrous morphologies. <i>European Polymer Journal</i> , 2008, 44, 219-224.	2.6	57
98	Electrochemical De-/Intercalation of Silver for Ag ₂ NiO and AgNiO ₂ . <i>Journal of the Electrochemical Society</i> , 2008, 155, E1.	1.3	5
99	Electrodeposition of NiOx/PANI composite film and its catalytic properties towards electrooxidations of polyhydroxyl compounds. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2260-2264.	1.3	17
100	Composite films of polyaniline and molybdenum oxide formed by electrocodeposition in aqueous media. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1279-1286.	1.2	44
101	Electrosynthesis of Polyaniline/SiO ₂ Composite at high pH in the Absence of Extra Supporting Electrolyte. <i>Polymer Bulletin</i> , 2006, 57, 825-832.	1.7	19
102	Study on Tribological Properties of Polytetrafluoroethylene Drawn Uniaxially at Different Temperature. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 172-178.	1.7	7
103	Electropolymerization of aniline in aqueous solutions at pH 2 to 12. <i>Journal of Materials Science</i> , 2005, 40, 4511-4515.	1.7	42
104	Synthesis, Characterisation and Electrochemical Behaviour of Rhodium(III) Complexes Containing 1,2-Naphthoquinone-2-oxime and Formation of Imine Complexes through N=O Bond Cleavage. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 511-520.	1.0	10
105	Synthesis, characterisation and co-polymerisation of ruthenium 1,2-naphthoquinone-1-oxime complexes containing 4-vinylpyridine ligands. <i>Inorganica Chimica Acta</i> , 2001, 312, 231-238.	1.2	3
106	Synthesis and structural characterization of ruthenium nitrosonaphthol complexes incorporating pendant pyridyl ligands. <i>Inorganica Chimica Acta</i> , 2000, 299, 16-27.	1.2	7
107	Synthesis, characterization and crystal structure of a series of ruthenium nitrosonaphthol complexes. <i>Polyhedron</i> , 2000, 19, 7-21.	1.0	10