

# Xiao-Xia Liu

## List of Publications by Citations

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103  
papers

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36  
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63  
g-index

109  
ext. papers

4,988  
ext. citations

8  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
103	High Mass Loading MnO with Hierarchical Nanostructures for Supercapacitors. <i>ACS Nano</i> , <b>2018</b> , 12, 3557-3567	10.7	305
102	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <i>Carbon</i> , <b>2011</b> , 49, 3488-3496	10.4	239
101	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. <i>Nanoscale</i> , <b>2013</b> , 5, 7984-90	7.7	223
100	Pushing the Cycling Stability Limit of Polypyrrole for Supercapacitors. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4626-4632	15.6	183
99	Synthesis and pseudocapacitive studies of composite films of polyaniline and manganese oxide nanoparticles. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 3742-3747	8.9	164
98	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> , <b>2014</b> , 249, 48-58	8.9	140
97	Electrodeposition of vanadium oxide/polyaniline composite nanowire electrodes for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10882-10888	13	136
96	Humidity sensors based on polyaniline nanofibres. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 143, 530-534	4.5	132
95	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1752-1759	20.1	115
94	Electrodeposition and pseudocapacitive properties of tungsten oxide/polyaniline composite. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 4842-4848	8.9	104
93	Electrochemical codeposition of vanadium oxide and polypyrrole for high-performance supercapacitor with high working voltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12656-64	9.5	101
92	Self-doped polyaniline on functionalized carbon cloth as electroactive materials for supercapacitor. <i>Electrochimica Acta</i> , <b>2012</b> , 64, 17-22	6.7	101
91	Amorphous Mixed-Valence Vanadium Oxide/Exfoliated Carbon Cloth Structure Shows a Record High Cycling Stability. <i>Small</i> , <b>2017</b> , 13, 1700067	11	94
90	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5209-5214	8.9	94
89	Electrodeposited hybrid films of polyaniline and manganese oxide in nanofibrous structures for electrochemical supercapacitor. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3036-3042	6.7	91
88	Controlled partial-exfoliation of graphite foil and integration with MnO <sub>2</sub> nanosheets for electrochemical capacitors. <i>Nanoscale</i> , <b>2015</b> , 7, 3581-7	7.7	81
87	Ordered Polypyrrole Nanowire Arrays Grown on a Carbon Cloth Substrate for a High-Performance Pseudocapacitor Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25506-13	9.5	80

86	Balancing the electrical double layer capacitance and pseudocapitance of hetero-atom doped carbon. <i>Nanoscale</i> , <b>2017</b> , 9, 13119-13127	7.7	75
85	A Zn(CLO) Electrolyte Enabling Long-Life Zinc Metal Electrodes for Rechargeable Aqueous Zinc Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42000-42005	9.5	69
84	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 118	19.5	67
83	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801784	21.8	67
82	Inhibiting VOPO $\times$ H <sub>2</sub> O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16057-16067	16.4	64
81	Rate capability improvement of polypyrrole via integration with functionalized commercial carbon cloth for pseudocapacitor. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 788-797	8.9	58
80	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> , <b>2015</b> , 3, 14712-14720	13	55
79	Electrochemical synthesis of WO <sub>3</sub> /PANI composite for electrocatalytic reduction of iodate. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3915-3920	6.7	55
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> , <b>2011</b> , 196, 1608-1614	8.9	53
77	Electrochemical deposition of highly loaded polypyrrole on individual carbon nanotubes in carbon nanotube film for supercapacitor. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 552-559	14.7	52
76	Electrodepositions and capacitive properties of hybrid films of polyaniline and manganese dioxide with fibrous morphologies. <i>European Polymer Journal</i> , <b>2008</b> , 44, 219-224	5.2	52
75	pH-controlled morphological structure of polyaniline during electrochemical deposition. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 6172-6177	6.7	48
74	Amorphous NiFe(oxy)hydroxide nanosheet integrated partially exfoliated graphite foil for high efficiency oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24208-24216	13	47
73	Ammonium-Ion Storage Using Electrodeposited Manganese Oxides. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 5718-5722	16.4	44
72	Composite films of polyaniline and molybdenum oxide formed by electrocodeposition in aqueous media. <i>Journal of Solid State Electrochemistry</i> , <b>2007</b> , 11, 1279-1286	2.6	43
71	Density, dynamic viscosity, and electrical conductivity of pyridinium-based hydrophobic ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 66, 88-94	2.9	42
70	A polyanionic molybdenophosphate anode for a 2.7 V aqueous pseudocapacitor. <i>Nano Energy</i> , <b>2019</b> , 65, 104010	17.1	41
69	Tri-layered graphite foil for electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7683-7688	6.8	41

68	VOx@MoO <sub>3</sub> Nanorod Composite for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803901	15.6	38
67	Electropolymerization of aniline in aqueous solutions at pH 2 to 12. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 4511-4515	4.3	36
66	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> , <b>2014</b> , 43, 8805-13	4.3	34
65	Encapsulation of polyaniline in 3-D interconnected mesopores of silica KIT-6. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 341, 353-8	9.3	33
64	Concurrent electropolymerization of aniline and electrochemical deposition of tungsten oxide for supercapacitor. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 980-989	8.9	31
63	Density, dynamic viscosity, and electrical conductivity of two hydrophobic functionalized ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 90, 39-45	2.9	30
62	Electrochemical codeposition of nickel oxide and polyaniline. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1-7	2.6	28
61	One-dimensional growth and electrochemical properties of polyaniline deposited by a pulse potentiostatic method. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7175-7181	6.7	27
60	Rate capability improvement of Co/Ni double hydroxides integrated in cathodically partially exfoliated graphite. <i>Journal of Power Sources</i> , <b>2017</b> , 365, 126-133	8.9	25
59	Theoretical study on polyaniline gas sensors: Examinations of response mechanism for alcohol. <i>Synthetic Metals</i> , <b>2012</b> , 162, 862-867	3.6	25
58	Boosting operating voltage of vanadium oxide-based symmetric aqueous supercapacitor to 2 V. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1529-1538	14.7	25
57	Boosting the pseudocapacitance of nitrogen-rich carbon nanorod arrays for electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12086-12094	13	23
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> , <b>2015</b> , 21, 3821-30	4.8	23
55	Chemical anchoring of silica nanoparticles onto polyaniline chains via electro-co-polymerization of aniline and N-substituted aniline grafted on surfaces of SiO <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2008</b> , 53, 4693-4698	6.7	21
54	Fabrication of a PANI/CPs composite material: a feasible method to enhance the photocatalytic activity of coordination polymers. <i>Dalton Transactions</i> , <b>2013</b> , 42, 4031-9	4.3	20
53	Electrochemical in situ construction of vanadium oxide heterostructures with boosted pseudocapacitive charge storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1176-1183	13	20
52	Electrochemical Growth of Polyaniline Nanowire Arrays on Graphene Sheets in Partially Exfoliated Graphite Foil for High-Performance Supercapacitive Materials. <i>Electrochimica Acta</i> , <b>2017</b> , 240, 72-79	6.7	19
51	Strongly coupled polypyrrole/molybdenum oxide hybrid films via electrochemical layer-by-layer assembly for pseudocapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9815-9821	13	19

50	Density, Electrical Conductivity, and Dynamic Viscosity of N-Alkyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2999-3004	2.8	19
49	Electrosynthesis of Polyaniline/SiO <sub>2</sub> Composite at high pH in the Absence of Extra Supporting Electrolyte. <i>Polymer Bulletin</i> , <b>2006</b> , 57, 825-832	2.4	18
48	Highly loaded manganese oxide with high rate capability for capacitive applications. <i>Journal of Power Sources</i> , <b>2018</b> , 396, 238-245	8.9	17
47	Morphology engineering of electro-deposited iron oxides for aqueous rechargeable Ni/Fe battery applications. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 672-679	14.7	15
46	Cobalt-Containing Nanoporous Nitrogen-Doped Carbon Nanocuboids from Zeolite Imidazole Frameworks for Supercapacitors. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	14
45	Immobilization of molybdenum oxide in polyaniline and electrocatalytic properties of the composite modified electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 73-77	8.5	14
44	Electrochemical fabrication of interconnected tungsten bronze nanosheets for high performance supercapacitor. <i>Journal of Power Sources</i> , <b>2018</b> , 383, 17-23	8.9	13
43	Electrodeposition of NiOx/PANI composite film and its catalytic properties towards electrooxidations of polyhydroxyl compounds. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 2260-2264 <sup>2.9</sup>	2.9	13
42	Extending the cycle life of high mass loading MoOx electrode for supercapacitor applications. <i>Electrochimica Acta</i> , <b>2019</b> , 325, 134877	6.7	12
41	The controlled quinone introduction and conformation modification of polyaniline cathode materials for rechargeable aqueous zinc-polymer batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129659	14.7	12
40	Electrochemical deposition of honeycomb magnetite on partially exfoliated graphite as anode for capacitive applications. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 57-63	8.9	11
39	Self-doped polyaniline/molybdenum oxide composite nanorods for supercapacitors. <i>RSC Advances</i> , <b>2015</b> , 5, 75374-75379	3.7	11
38	Fundamental understanding of the proton and zinc storage in vanadium oxide for aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129491	14.7	11
37	Realizing the leucoemeraldine-emeraldine-pernigraniline redox reactions in polyaniline cathode materials for aqueous zinc-polymer batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131988	14.7	11
36	The Development of Vanadyl Phosphate Cathode Materials for Energy Storage Systems: A Review. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8190-8204	4.8	10
35	Nitrogen-doped carbon spider webs derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 1109-1119	2.5	10
34	Activating the Highly Reversible Mo/Mo Redox Couple in Amorphous Molybdenum Oxide for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48565-48571	9.5	10
33	Electrode and electrolyte regulation to promote coulombic efficiency and cycling stability of aqueous zinc-iodine batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131283	14.7	10

32	Heterojunction induced activation of iron oxide anode for high-power aqueous batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125874	14.7	9
31	Thermodynamic Properties of a New Hydrophobic Amide-Based Task-Specific Ionic Liquid [EimCH <sub>2</sub> CONHBu][NTf <sub>2</sub> ]. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 93-98	2.8	9
30	Molar heat capacity and thermodynamic properties of N-alkylpyridinium hexafluorophosphate salts, [C <sub>n</sub> py][PF <sub>6</sub> ] (n = 2, 3, 5). <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 68, 82-89	2.9	9
29	Synthesis, characterization and crystal structure of a series of ruthenium nitrosonaphthol complexes. <i>Polyhedron</i> , <b>2000</b> , 19, 7-21	2.7	9
28	A Manganese Phosphate Cathode for Long-Life Aqueous Energy Storage. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100477	15.6	9
27	Immobilization of phosphotungstate through doping in polypyrrole for supercapacitors. <i>Dalton Transactions</i> , <b>2019</b> , 48, 6812-6816	4.3	8
26	Electrodeposition of hybrid film of polyaniline/silica and its pseudocapacitive properties. <i>Journal of Solid State Electrochemistry</i> , <b>2008</b> , 12, 909-912	2.6	8
25	Synthesis, Characterisation and Electrochemical Behaviour of Rhodium(III) Complexes Containing 1,2-Naphthoquinone-2-oxime and Formation of Imine Complexes through N-D Bond Cleavage. <i>European Journal of Inorganic Chemistry</i> , <b>2001</b> , 2001, 511-520	2.3	8
24	Hybrid Iron Oxide on Three-Dimensional Exfoliated Graphite Electrode with Ultrahigh Capacitance for Energy Storage Applications. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1501-1508	4.3	7
23	3D Exfoliated Carbon Paper toward Highly Loaded Aqueous Energy Storage Applications. <i>Energy Technology</i> , <b>2019</b> , 7, 1900892	3.5	6
22	Study on Tribological Properties of Polytetrafluoroethylene Drawn Uniaxially at Different Temperature. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 172-178	3.9	6
21	Synthesis and structural characterization of ruthenium nitrosonaphthol complexes incorporating pendant pyridyl ligands. <i>Inorganica Chimica Acta</i> , <b>2000</b> , 299, 16-27	2.7	6
20	Disproportionation enabling reversible MnO <sub>2</sub> /Mn <sup>2+</sup> transformation in a mild aqueous Zn-MnO <sub>2</sub> hybrid battery. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133064	14.7	6
19	Decavanadate Doped Polyaniline for Aqueous Zinc Batteries.. <i>Small</i> , <b>2022</b> , e2107689	11	6
18	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> , <b>2012</b> , 11, 895-905	1.8	5
17	Synthesis, crystal structure of ruthenium 1,2-naphthoquinone-1-oxime complex and its mediated C-C coupling reactions of terminal alkynes. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 21, 1315-1319	4.9	5
16	Syntheses, characterizations and theoretical calculations of rhodium(III) 1,2-naphthoquinone-1-oxime complexes. <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 949-956	2.7	5
15	The energy storage behavior of a phosphate-based cathode material in rechargeable zinc batteries. <i>Chemical Communications</i> , <b>2021</b> , 57, 6253-6256	5.8	5

14	Ammonium-Ion Storage Using Electrodeposited Manganese Oxides. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 5782-5786	3.6	5
13	Mixed-ligand coordination polymers constructed from flexible 2,2'-biphenyldicarboxylate and rigid isomeric bipyridines. <i>Polyhedron</i> , <b>2009</b> , 28, 2997-3004	2.7	4
12	A high performance tungsten bronze electrode in a mixed electrolyte and applications in supercapacitors. <i>Chemical Communications</i> , <b>2019</b> , 55, 14323-14326	5.8	4
11	Synthesis, structural characterization, and photocatalytic study of transition metal coordination polymers constructed from mixed ligands. <i>Journal of Coordination Chemistry</i> , <b>2014</b> , 67, 2301-2311	1.6	3
10	Synthesis, characterisation and co-polymerisation of ruthenium 1,2-naphthoquinone-1-oxime complexes containing 4-vinylpyridine ligands. <i>Inorganica Chimica Acta</i> , <b>2001</b> , 312, 231-238	2.7	3
9	The construction of a sandwich structured CoO@C@PPy electrode for improving pseudocapacitive storage.. <i>RSC Advances</i> , <b>2018</b> , 8, 33374-33382	3.7	3
8	Inhibiting VOPO <sub>4</sub> ·x H <sub>2</sub> O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16203-16207	3.6	2
7	Synthesis, characterization and magnetic properties of coordination polymers of manganese with 1,1'-biphenyl-2,2'-dicarboxylic acid ligands. <i>Transition Metal Chemistry</i> , <b>2009</b> , 34, 827-833	2.1	2
6	Influence of the zero dispersion wavelength fluctuation on the gain and noise performance in dual-pump fiber parametric amplifiers. <i>Optoelectronics Letters</i> , <b>2010</b> , 6, 367-370	0.7	2
5	Electrochemical De-/Intercalation of Silver for Ag <sub>2</sub> NiO and AgNiO. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, E1	3.9	2
4	High-Voltage Manganese Oxide Cathode with Two-Electron Transfer Enabled by a Phosphate Proton Reservoir for Aqueous Zinc Batteries. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1814-1819	20.1	2
3	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> , <b>2011</b> , 41, 453-457	0.5	1
2	Self-assembly of reduced molybdophosphate-based supramolecular architectures and the study of their magnetic properties. <i>Transition Metal Chemistry</i> , <b>2009</b> , 34, 571-577	2.1	1
1	Regulating the electro-deposition behavior of Fe metal anode and the applications in rechargeable aqueous iron-iodine batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134389	14.7	0