

# Xiaoying Liu

## List of Publications by Year in descending order

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54  
papers

3,551  
citations

136885

32  
h-index

161767

54  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Synthesis and Characterization of Novel Mesoporous and Mesorelief Oxides with Gyroidal Structures. <i>Journal of the American Chemical Society</i> , 2004, 126, 865-875.	6.6	297
2	Room-Temperature Synthesis in Acidic Media of Large-Pore Three-Dimensional Bicontinuous Mesoporous Silica with Ia3d Symmetry. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3876-3878.	7.2	269
3	Tuning MnO <sub>2</sub> to FeOOH replicas with bio-template 3D morphology as electrodes for high performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 370, 136-147.	6.6	227
4	Microwave assisted template removal of siliceous porous materials Electronic supplementary information (ESI) available: syntheses, XRD patterns, SEM image, Pb <sup>2+</sup> extraction images, <sup>29</sup> Si MAS NMR and TG curves. See <a href="http://www.rsc.org/suppdata/cc/b2/b202180c/">http://www.rsc.org/suppdata/cc/b2/b202180c/</a> . <i>Chemical Communications</i> , 2002, , 1186-1187.	2.2	209
5	Assembling a double shell on a diatomite skeleton ternary complex with conductive polypyrrole for the enhancement of supercapacitors. <i>Chemical Communications</i> , 2019, 55, 13773-13776.	2.2	182
6	Controlled Synthesis of Semiconductor PbS Nanocrystals and Nanowires Inside Mesoporous Silica SBA-15 Phase. <i>Nano Letters</i> , 2001, 1, 743-748.	4.5	158
7	Morphologically confined hybridization of tiny CoNi <sub>2</sub> S <sub>4</sub> nanosheets into S, P co-doped graphene leading to enhanced pseudocapacitance and rate capability. <i>Chemical Engineering Journal</i> , 2020, 379, 122305.	6.6	148
8	A multidimensional rational design of nickel-iron sulfide and carbon nanotubes on diatomite via synergistic modulation strategy for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 799-809.	5.0	138
9	Optimizing the rate capability of nickel cobalt phosphide nanowires on graphene oxide by the outer/inter-component synergistic effects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1697-1708.	5.2	135
10	2D-2D growth of NiFe LDH nanoflakes on montmorillonite for cationic and anionic dye adsorption performance. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 398-409.	5.0	115
11	Synthesis of porous NiCoS nanosheets with Al leaching on ordered mesoporous carbon for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 384, 123367.	6.6	112
12	Phase and morphology evolution of CoAl LDH nanosheets towards advanced supercapacitor applications. <i>CrystEngComm</i> , 2019, 21, 4934-4942.	1.3	91
13	Acid-salt treated CoAl layered double hydroxide nanosheets with enhanced adsorption capacity of methyl orange dye. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 100-109.	5.0	86
14	Atomic scale modulation strategies and crystal phase transition of flower-like CoAl layered double hydroxides for supercapacitors. <i>CrystEngComm</i> , 2022, 24, 2081-2088.	1.3	85
15	The pseudocapacitance mechanism of graphene/CoAl LDH and its derivatives: Are all the modifications beneficial?. <i>Journal of Energy Chemistry</i> , 2021, 52, 218-227.	7.1	71
16	Crystal morphology evolution of Ni-Co layered double hydroxide nanostructure towards high-performance biotemplate asymmetric supercapacitors. <i>CrystEngComm</i> , 2018, 20, 7428-7434.	1.3	70
17	Growth of cobalt-aluminum layered double hydroxide nanosheets on graphene oxide towards high performance supercapacitors: The important role of layer structure. <i>Applied Surface Science</i> , 2019, 496, 143700.	3.1	68
18	Crystal structure of nickel manganese-layered double hydroxide@cobalt oxide on nickel foam towards high-performance supercapacitors. <i>CrystEngComm</i> , 2019, 21, 470-477.	1.3	68

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19	Birnessite based nanostructures for supercapacitors: challenges, strategies and prospects. <i>Nanoscale Advances</i> , 2020, 2, 37-54.	2.2	61
20	Carbonate-intercalated defective bismuth tungstate for efficiently photocatalytic NO removal and promotion mechanism study. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 206-213.	10.8	58
21	Biotemplated top-down assembly of hybrid Ni nanoparticles/N doping carbon on diatomite for enhanced catalytic reduction of 4-nitrophenol. <i>Chemical Engineering Journal</i> , 2020, 383, 123156.	6.6	52
22	One-step phosphorization synthesis of CoP@NiCoP nanowire/nanosheet composites hybrid arrays on Ni foam for high-performance supercapacitors. <i>Applied Surface Science</i> , 2020, 532, 147437.	3.1	52
23	Mesoporous Ni-Doped $\text{Bi}_2\text{O}_3$ Microspheres for Enhanced Solar-Driven Photocatalysis: A Combined Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9394-9401.	1.5	49
24	Double-shell $\text{Fe}_2\text{O}_3$ hollow box-like structure for enhanced photo-Fenton degradation of malachite green dye. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 112, 209-215.	1.9	49
25	Ordered Nanowire Arrays of Metal Sulfides Templated by Mesoporous Silica SBA-15 via a Simple Impregnation Reaction. <i>Chemistry Letters</i> , 2003, 32, 824-825.	0.7	39
26	One-step hydrothermal synthesis of Cu-doped $\text{MnO}_2$ coated diatomite for degradation of methylene blue in Fenton-like system. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 466-475.	5.0	39
27	$\text{MnO}_2$ @NiO nanosheets@nanowires hierarchical structures with enhanced supercapacitive properties. <i>Journal of Materials Science</i> , 2020, 55, 2482-2491.	1.7	39
28	Facile construction of $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ @ $\text{Bi}_2\text{O}_2\text{CO}_3$ heterojunctions for enhanced photocatalytic efficiency toward NO removal and study of the conversion process. <i>Chinese Journal of Catalysis</i> , 2020, 41, 268-275.	6.9	39
29	Calcium Sulfate Hemihydrate Nanowires: One Robust Material in Separation of Water from Water-in-Oil Emulsion. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10519-10525.	4.6	37
30	The unusual electrochemical characteristics of a novel three-dimensional ordered bicontinuous mesoporous carbon. <i>Chemical Physics Letters</i> , 2004, 389, 327-331.	1.2	35
31	Low Carbonate Contaminative and Ultrasmall NiAl LDH Prepared by Acid Salt Treatment with High Adsorption Capacity of Methyl Orange. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11985-11998.	1.8	35
32	Uniform growth of $\text{NiCo}_2\text{S}_4$ nanoflakes arrays on nickel foam for binder-free high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 4821-4830.	1.7	33
33	In-situ fabricating $\text{MnO}_2$ and its derived $\text{FeOOH}$ nanostructures on mesoporous carbon towards high-performance asymmetric supercapacitor. <i>Applied Surface Science</i> , 2020, 503, 144123.	3.1	33
34	Heterojunction interface of zinc oxide and zinc sulfide promoting reactive molecules activation and carrier separation toward efficient photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 826-837.	5.0	32
35	Low-Charge-Carrier-Scattering Three-Dimensional $\text{Bi}_2\text{MnO}_2$ - $\text{MnO}_2$ Networks for Ultra-High-Rate Asymmetrical Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 1051-1059.	2.5	30
36	Motivated surface reaction thermodynamics on the bismuth oxyhalides with lattice strain for enhanced photocatalytic NO oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119694.	10.8	28

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37	Morphology and crystallinity-controlled synthesis of etched CoAl LDO/MnO <sub>2</sub> hybrid nanoarrays towards high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 806, 917-925.	2.8	26
38	Microwave-Assisted Solvothermal Synthesis of Radial ZnS Nanoribbons. <i>Chemistry Letters</i> , 2004, 33, 522-523.	0.7	24
39	Carbonate doped Bi <sub>2</sub> MoO <sub>6</sub> hierarchical nanostructure with enhanced transformation of active radicals for efficient photocatalytic removal of NO. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 816-824.	5.0	24
40	Phase and morphology controlled polymorphic MnO <sub>2</sub> nanostructures for electrochemical energy storage. <i>CrystEngComm</i> , 2019, 21, 5322-5331.	1.3	23
41	Design and fabrication of hydrotalcite-like ternary NiMgAl layered double hydroxide nanosheets as battery-type electrodes for high-performance supercapacitors. <i>RSC Advances</i> , 2019, 9, 9604-9612.	1.7	22
42	CXCL1 promotes the proliferation of neural stem cells by stimulating the generation of reactive oxygen species in APP/PS1 mice. <i>Biochemical and Biophysical Research Communications</i> , 2019, 515, 201-206.	1.0	21
43	2D-3D graphene-coated diatomite as a support toward growing ZnO for advanced photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2021, 11, 38505-38514.	1.7	19
44	Structural insight into the alginate derived nano-La(OH) <sub>3</sub> /porous carbon composites for highly selective adsorption of phosphate. <i>International Journal of Biological Macromolecules</i> , 2022, 200, 172-181.	3.6	16
45	ZIFs derived multiphase CoSe <sub>2</sub> nanoboxes induced and fixed on CoAl-LDH nanoflowers for high-performance hybrid supercapacitor. <i>Chemical Engineering Science</i> , 2022, 252, 117241.	1.9	15
46	An Easy Route for the Synthesis of Ordered Three-Dimensional Large-Pore Mesoporous Organosilicas with Im-3m Symmetry. <i>Chemistry Letters</i> , 2004, 33, 1132-1133.	0.7	12
47	Enhanced Visible Light Photocatalytic Activity of Br-Doped Bismuth Oxide Formate Nanosheets. <i>Molecules</i> , 2015, 20, 19189-19202.	1.7	12
48	High-rate asymmetrical supercapacitors based on cobalt-doped birnessite nanotubes and Mn-FeOOH nanotubes. <i>Chemical Communications</i> , 2020, 56, 3257-3260.	2.2	12
49	Controllable synthesis of a 3D ZnS@MoO <sub>3</sub> heterojunction via a hydrothermal method towards efficient NO purification under visible light. <i>CrystEngComm</i> , 2020, 22, 257-266.	1.3	9
50	Morphological evolution process of $\gamma$ -MnO <sub>2</sub> from 2-D to 1-D without phase transition. <i>CrystEngComm</i> , 2019, 21, 4593-4598.	1.3	8
51	Rapid oxidation-etching synthesis of low-crystalline $\gamma$ -MnO <sub>2</sub> tubular nanostructures under ambient with high capacitance. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 168-173.	5.0	6
52	Numerical investigation of pore defect formation in the weld during high speed laser welding. <i>Journal of Laser Applications</i> , 2020, 32, 022066.	0.8	4
53	A large vehicle first clustering method based road section risk level estimation. , 2016, , .		3
54	Facile constructing ZnO/ZnCO <sub>3</sub> heterojunction for high-performance photocatalytic NO oxidation and reaction pathway study. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4527-4534.	1.1	3