

Xiaohe Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

3,098
citations

27
h-index

52
g-index

107
ext. papers

3,927
ext. citations

8.2
avg, IF

5.67
L-index

#	Paper	IF	Citations
96	N-doped bimetallic sulfides hollow spheres derived from metal-organic frameworks toward cost-efficient and high performance oxygen evolution reaction. <i>Applied Surface Science</i> , 2022 , 591, 153173	6.7	2
95	Silicon nanosheets derived from silicate minerals: controllable synthesis and energy storage application. <i>Nanoscale</i> , 2021 , 13, 18410-18420	7.7	1
94	General Synthesis of Layered Rare-Earth Hydroxides (RE = Sm, Eu, Gd, Tb, Dy, Ho, Er, Y) and Direct Exfoliation into Monolayer Nanosheets with High Color Purity. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10135-10143	6.4	3
93	Advanced silicon nanostructures derived from natural silicate minerals for energy storage and conversion. <i>Green Energy and Environment</i> , 2021 , 7, 205-205	5.7	1
92	Double Confined MoO/Sn/NC@NC Nanotubes: Solid-Liquid Synthesis, Conformal Transformation, and Excellent Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19836-19845	9.5	5
91	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 119976	21.8	15
90	β-cyclodextrin as Lithium-ion Diffusion Channel with Enhanced Kinetics for Stable Silicon Anode. <i>Energy and Environmental Materials</i> , 2021 , 4, 72-80	13	8
89	Superlattice films of semiconducting oxide and rare-earth hydroxide nanosheets for tunable and efficient photoluminescent energy transfer. <i>Nanoscale</i> , 2021 , 13, 4551-4561	7.7	3
88	Tuning Interfacial Active Sites over Porous MoN-Supported Cobalt Sulfides for Efficient Hydrogen Evolution Reactions in Acid and Alkaline Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41573-41583	9.5	5
87	Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 6070-6073	5.8	5
86	Photo-irradiation tunes highly active sites over Ni(OH) nanosheets for the electrocatalytic oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 9060-9063	5.8	2
85	Montmorillonite: A structural evolution from bulk through unilaminar nanolayers to nanotubes. <i>Applied Clay Science</i> , 2020 , 194, 105695	5.2	13
84	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. <i>Nanoscale</i> , 2020 , 12, 8693-8700	7.7	24
83	Metal-Organic Framework Hexagonal Nanoplates: Bottom-up Synthesis, Topotactic Transformation, and Efficient Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7317-7321	16.4	75
82	Composition Tuning of Ultrafine Cobalt-Based Spinel Nanoparticles for Efficient Oxygen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5534-5543	8.3	4
81	Multi-shelled cobalt-nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. <i>Dalton Transactions</i> , 2020 , 49, 10918-10927	4.3	6
80	Novel Functionalized BN Nanosheets/Epoxy Composites with Advanced Thermal Conductivity and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6503-6515	9.5	128

79	Synthesis of Co(II)-Fe(III) Hydroxide Nanocones with Mixed Octahedral/Tetrahedral Coordination toward Efficient Electrocatalysis. <i>Chemistry of Materials</i> , 2020 , 32, 4232-4240	9.6	17
78	3D Network Binder via In Situ Cross-Linking on Silicon Anodes with Improved Stability for Lithium-Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900414	2.6	19
77	Layered Metal Hydroxides and Their Derivatives: Controllable Synthesis, Chemical Exfoliation, and Electrocatalytic Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 1902535	21.8	48
76	Two-dimensional NiSe ₂ nanosheets on carbon fiber cloth for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153218	5.7	15
75	Ultrathin Nanosheet-Assembled Co-Fe Hydroxide Nanotubes: Sacrificial Template Synthesis, Topotactic Transformation, and Their Application as Electrocatalysts for Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46578-46587	9.5	5
74	Advanced electrocatalysts based on two-dimensional transition metal hydroxides and their composites for alkaline oxygen reduction reaction. <i>Nanoscale</i> , 2020 , 12, 21479-21496	7.7	17
73	Serpentine CoNi _{3-x} Ge ₂ O ₅ (OH) ₄ nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118184	21.8	17
72	Synthesis of silicon nanosheets from kaolinite as a high-performance anode material for lithium-ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 137, 109227	3.9	19
71	Activating Hematite Nanoplates via Partial Reduction for Electrocatalytic Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11841-11849	8.3	18
70	Heterostructured NiFe oxide/phosphide nanoflakes for efficient water oxidation. <i>Dalton Transactions</i> , 2019 , 48, 8442-8448	4.3	5
69	Activity enhancement of layered cobalt hydroxide nanocones by tuning interlayer spacing and phosphidation for electrocatalytic water oxidation in neutral solutions. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1744-1752	6.8	6
68	Ag _{1.69} Sb _{2.27} O _{6.25} coupled carbon nitride photocatalyst with high redox potential for efficient multifunctional environmental applications. <i>Applied Surface Science</i> , 2019 , 487, 82-90	6.7	8
67	2D Free-Standing Nitrogen-Doped Ni-Ni S @Carbon Nanoplates Derived from Metal-Organic Frameworks for Enhanced Oxygen Evolution Reaction. <i>Small</i> , 2019 , 15, e1900348	11	62
66	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1904020	15.6	70
65	Superionic conduction along ordered hydroxyl networks in molecular-thin nanosheets. <i>Materials Horizons</i> , 2019 , 6, 2087-2093	14.4	8
64	Cobalt iron phosphide nanoparticles embedded within a carbon matrix as highly efficient electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019 , 55, 9212-9215	5.8	17
63	Hydrothermal synthesis of three-dimensional core-shell hollow N-doped carbon encapsulating SnO ₂ @CoO nanospheres for high-performance lithium-ion batteries. <i>Materials Today Energy</i> , 2019 , 14, 100354	7	6
62	Alternate Restacking of 2 D CoNi Hydroxide and Graphene Oxide Nanosheets for Energetic Oxygen Evolution. <i>ChemSusChem</i> , 2019 , 12, 5274	8.3	5

61	Hybrid Nanostructures of Bimetallic NiCo Nitride/N-Doped Reduced Graphene Oxide as Efficient Bifunctional Electrocatalysts for Rechargeable Zn/Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19612-19620	8.3	24
60	Post-synthesis isomorphous substitution of layered Co-Mn hydroxide nanocones with graphene oxide as high-performance supercapacitor electrodes. <i>Nanoscale</i> , 2019 , 11, 6165-6173	7.7	31
59	Recent advances in developing high-performance nanostructured electrocatalysts based on 3d transition metal elements. <i>Nanoscale Horizons</i> , 2019 , 4, 789-808	10.8	37
58	Engineering of carbon and other protective coating layers for stabilizing silicon anode materials 2019 , 1, 219-245		43
57	New underfill material based on copper nanoparticles coated with silica for high thermally conductive and electrically insulating epoxy composites. <i>Journal of Materials Science</i> , 2019 , 54, 6258-6271	4.3	15
56	Self-Supported Fe-Doped CoP Nanowire Arrays Grown on Carbon Cloth with Enhanced Properties in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 406-412	6.1	20
55	Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 341-349	8.3	27
54	Improved Image Processing Algorithms for Microprobe Final Test. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 1-7	1.7	0
53	Study on Dipping Mathematical Models for the Solder Flip-Chip Bonding in Microelectronics Packaging. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4746-4754	11.9	13
52	Hierarchical CoO/MnCoO nanorod arrays on flexible carbon cloth as high-performance anode materials for lithium-ion batteries. <i>Dalton Transactions</i> , 2018 , 47, 3775-3784	4.3	32
51	Controllable Fabrication and Tuned Electrochemical Performance of Potassium Co-Ni Phosphate Microplates as Electrodes in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3506-3514	9.5	35
50	Ni ₂ P ₂ O ₇ Nanoarrays with Decorated C ₃ N ₄ Nanosheets as Efficient Electrode for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2016-2023	6.1	26
49	Rare Cobalt-Based Phosphate Nanoribbons with Unique 5-Coordination for Electrocatalytic Water Oxidation. <i>ACS Energy Letters</i> , 2018 , 3, 1254-1260	20.1	46
48	Two-dimensional porous cuprous oxide nanoplatelets derived from metal-organic frameworks (MOFs) for efficient photocatalytic dye degradation under visible light. <i>Dalton Transactions</i> , 2018 , 47, 7694-7700	4.3	29
47	Advanced Supercapacitors Based on Ni(OH) ₂ Nanoplates/Graphene Composite Electrodes with High Energy and Power Density. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1496-1505	6.1	18
46	Rare-earth-doped yttrium oxide nanoplatelets and nanotubes: controllable fabrication, topotactic transformation and upconversion luminescence. <i>CrystEngComm</i> , 2018 , 20, 5025-5032	3.3	6
45	Facile synthesis of porous FeCo ₂ O ₄ nanowire arrays on flexible carbon cloth with superior lithium storage properties. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 122, 261-267	3.9	26
44	Binder-Free Co ₄ N Nanoarray on Carbon Cloth as Flexible High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4432-4439	6.1	11

43	Interconnected silicon nanoparticles originated from halloysite nanotubes through the magnesiothermic reduction: A high-performance anode material for lithium-ion batteries. <i>Applied Clay Science</i> , 2018 , 162, 499-506	5.2	22
42	Serpentine Ni Ge O (OH) Nanosheets with Tailored Layers and Size for Efficient Oxygen Evolution Reactions. <i>Small</i> , 2018 , 14, e1803015	11	15
41	Three-dimensionally interconnected Si frameworks derived from natural halloysite clay: a high-capacity anode material for lithium-ion batteries. <i>Dalton Transactions</i> , 2018 , 47, 7522-7527	4.3	21
40	Terbium-Doped Layered Yttrium Hydroxide Nanocone: Controlled Synthesis, Structure Variations, Phase Conversion to Oxide/Oxysulfate Nanocone and Their Luminescence Properties. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800075	3.1	2
39	Controllable Fabrication of Rare-Earth-Doped Gd ₂ O ₂ SO ₄ @SiO ₂ Double-Shell Hollow Spheres for Efficient Upconversion Luminescence and Magnetic Resonance Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10463-10471	8.3	10
38	The Mathematical Model and Novel Final Test System for Wafer-Level Packaging. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1817-1824	11.9	16
37	Hierarchical yolk-shell layered potassium niobate for tuned pH-dependent photocatalytic H ₂ evolution. <i>Catalysis Science and Technology</i> , 2017 , 7, 1000-1005	5.5	24
36	Facile synthesis and characterization of core-shell structured Ag ₃ PO ₄ @Hal nanocomposites for enhanced photocatalytic properties. <i>Applied Clay Science</i> , 2017 , 141, 132-137	5.2	13
35	Large-Scale Preparation, Chemical Exfoliation, and Structural Modification of Layered Zinc Hydroxide Nanocones: Transformation into Zinc Oxide Nanocones for Enhanced Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5869-5879	8.3	13
34	Facile synthesis and characterization of ZnO nanoparticles grown on halloysite nanotubes for enhanced photocatalytic properties. <i>Scientific Reports</i> , 2017 , 7, 2250	4.9	44
33	Morphological Evolution and Magnetic Property of Rare-Earth-Doped Hematite Nanoparticles: Promising Contrast Agents for T1-Weighted Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , 2017 , 27, 1606821	15.6	24
32	Layered rare-earth hydroxide nanocones with facile host composition modification and anion-exchange feature: topotactic transformation into oxide nanocones for upconversion. <i>Nanoscale</i> , 2017 , 9, 8185-8191	7.7	10
31	Controllable synthesis of layered Co/Ni hydroxide hierarchical structures for high-performance hybrid supercapacitors. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 88, 8-13	3.9	17
30	Controllable Fabrication of Amorphous Co-Ni Pyrophosphates for Tuning Electrochemical Performance in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23114-21	9.5	82
29	Controllable fabrication of urchin-like CoO hollow spheres for high-performance supercapacitors and lithium-ion batteries. <i>Dalton Transactions</i> , 2016 , 45, 15155-15161	4.3	37
28	Layered Co/Mn hydroxide nanoflakes grown on carbon cloth as binder-free flexible electrodes for supercapacitors. <i>Journal of Materials Science</i> , 2016 , 51, 3784-3792	4.3	19
27	Acetate-induced controlled-synthesis of hematite polyhedra enclosed by high-activity facets for enhanced photocatalytic performance. <i>RSC Advances</i> , 2016 , 6, 66879-66883	3.7	11
26	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10367-74	9.5	86

25	Development of efficient electrocatalysts via molecular hybridization of NiMn layered double hydroxide nanosheets and graphene. <i>Nanoscale</i> , 2016 , 8, 10425-32	7.7	107
24	Polypyrrole-Modified NH ₄ NiPO ₄ ·H ₂ O Nanoplate Arrays on Ni Foam for Efficient Electrode in Electrochemical Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5578-5584	8.3	33
23	Gallium/gold composite microspheres fixed on a silicon substrate for surface enhanced Raman scattering. <i>RSC Advances</i> , 2015 , 5, 67134-67140	3.7	4
22	Controllable fabrication and magnetic properties of double-shell cobalt oxides hollow particles. <i>Scientific Reports</i> , 2015 , 5, 8737	4.9	23
21	Synthesis of Hollow BiVO ₄ /Ag Composite Microspheres and Their Photocatalytic and Surface-Enhanced Raman Scattering Properties. <i>ChemPlusChem</i> , 2015 , 80, 871-877	2.8	17
20	Urchin-like LaVO ₄ /Au composite microspheres for surface-enhanced Raman scattering detection. <i>Journal of Colloid and Interface Science</i> , 2015 , 443, 80-7	9.3	16
19	A superlattice of alternately stacked Ni-Fe hydroxide nanosheets and graphene for efficient splitting of water. <i>ACS Nano</i> , 2015 , 9, 1977-84	16.7	519
18	Controllable Fabrication and Optical Properties of Uniform Gadolinium Oxysulfate Hollow Spheres. <i>Scientific Reports</i> , 2015 , 5, 17934	4.9	21
17	Fabrication of nickel-foam-supported layered zinc-cobalt hydroxide nanoflakes for high electrochemical performance in supercapacitors. <i>Chemical Communications</i> , 2014 , 50, 11188-91	5.8	31
16	Molecular-scale heteroassembly of redoxable hydroxide nanosheets and conductive graphene into superlattice composites for high-performance supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 4173-8	24	144
15	Layered zinc hydroxide nanocones: synthesis, facile morphological and structural modification, and properties. <i>Nanoscale</i> , 2014 , 6, 13870-5	7.7	22
14	Hollow spherical rare-earth-doped yttrium oxysulfate: A novel structure for upconversion. <i>Nano Research</i> , 2014 , 7, 1093-1102	10	38
13	High-Yield Preparation, Versatile Structural Modification, and Properties of Layered Cobalt Hydroxide Nanocones. <i>Advanced Functional Materials</i> , 2014 , 24, 4292-4302	15.6	65
12	Controlled fabrication and optical properties of uniform CeO ₂ hollow spheres. <i>RSC Advances</i> , 2013 , 3, 3544	3.7	13
11	General synthetic strategy for high-yield and uniform rare-earth oxysulfate (RE ₂ O ₂ SO ₄ , RE = La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Y, Ho, and Yb) hollow spheres. <i>RSC Advances</i> , 2012 , 2, 9362	3.7	26
10	General insights into structural evolution of layered double hydroxide: underlying aspects in topochemical transformation from brucite to layered double hydroxide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19915-21	16.4	101
9	Shape-controlled synthesis and characterization of cobalt oxides hollow spheres and octahedra. <i>Dalton Transactions</i> , 2012 , 41, 5981-7	4.3	42
8	A general strategy to layered transition-metal hydroxide nanocones: tuning the composition for high electrochemical performance. <i>Advanced Materials</i> , 2012 , 24, 2148-53	24	190

7	Layered Cobalt Hydroxide Nanocones: Microwave-Assisted Synthesis, Exfoliation, and Structural Modification. <i>Angewandte Chemie</i> , 2010 , 122, 8429-8432	3.6	12
6	Layered cobalt hydroxide nanocones: microwave-assisted synthesis, exfoliation, and structural modification. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8253-6	16.4	81
5	Large-scale Hydrothermal Synthesis and Characterization of Size-controlled Lanthanum Hydroxide Nanorods. <i>Chinese Journal of Chemistry</i> , 2009 , 27, 920-924	4.9	2
4	Anchoring Active Sites by Pt ₂ FeNi Alloy Nanoparticles on NiFe Layered Double Hydroxides for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Energy and Environmental Materials</i> ,	13	1
3	Anticorrosive Copper Current Collector Passivated by Self-Assembled Porous Membrane for Highly Stable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2104930	15.6	8
2	Quasi Solid-State Electrolytes of Li ₂ Sn ₂ (bdc) ₃ (H ₂ O) _x Metal-Organic Frameworks for Lithium Metal Battery. <i>Electroanalysis</i> ,	3	0
1	Cross-Linked Polymer Binder via Phthalic Acid for Stabilizing SiO _x Anodes. <i>Macromolecular Chemistry and Physics</i> , 2200068	2.6	2