

# Xiong Wen Lou

## List of Publications by Year in descending order

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411  
papers

119,030  
citations

20

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126

337  
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455  
docs citations

455  
times ranked

51112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow Micro-/Nanostructures: Synthesis and Applications. <i>Advanced Materials</i> , 2008, 20, 3987-4019.	11.1	2,820
2	Defect-Rich MoS <sub>2</sub> Ultrathin Nanosheets with Additional Active Edge Sites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 5807-5813.	11.1	2,705
3	Recent Advances in Metal Oxide-based Electrode Architecture Design for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2012, 24, 5166-5180.	11.1	2,251
4	Mixed Transition-Metal Oxides: Design, Synthesis, and Energy-Related Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1488-1504.	7.2	2,019
5	A metal-organic framework-derived bifunctional oxygen electrocatalyst. <i>Nature Energy</i> , 2016, 1, .	19.8	1,974
6	Ultrathin Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanosheets Supported on Ni Foam as Advanced Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2012, 22, 4592-4597.	7.8	1,545
7	Metal Oxide Hollow Nanostructures for Lithium-ion Batteries. <i>Advanced Materials</i> , 2012, 24, 1903-1911.	11.1	1,414
8	Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO <sub>2</sub> Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 6124-6130.	6.6	1,215
9	Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. <i>Nature Communications</i> , 2015, 6, 6512.	5.8	1,194
10	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015, 6, 6694.	5.8	1,101
11	Designed Formation of Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 5590-5595.	6.6	1,059
12	Designed Synthesis of Coaxial SnO <sub>2</sub> @carbon Hollow Nanospheres for Highly Reversible Lithium Storage. <i>Advanced Materials</i> , 2009, 21, 2536-2539.	11.1	1,013
13	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. <i>Nanoscale</i> , 2012, 4, 2526.	2.8	1,012
14	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. <i>Science</i> , 2019, 366, 850-856.	6.0	1,005
15	General Solution Growth of Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanosheets on Various Conductive Substrates as High-Performance Electrodes for Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 976-979.	11.1	963
16	Formation of Fe <sub>2</sub> O <sub>3</sub> Microboxes with Hierarchical Shell Structures from Metal-Organic Frameworks and Their Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 17388-17391.	6.6	935
17	Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. <i>Nature Communications</i> , 2014, 5, 5002.	5.8	892
18	Nitrogen-containing microporous carbon nanospheres with improved capacitive properties. <i>Energy and Environmental Science</i> , 2011, 4, 717-724.	15.6	852

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19	Carbon coated porous nickel phosphides nanoplates for highly efficient oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2016, 9, 1246-1250.	15.6	839
20	Metal-organic frameworks and their derived materials for electrochemical energy storage and conversion: Promises and challenges. <i>Science Advances</i> , 2017, 3, eaap9252.	4.7	824
21	Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1777-1783.	15.6	782
22	Yolk/shell nanoparticles: new platforms for nanoreactors, drug delivery and lithium-ion batteries. <i>Chemical Communications</i> , 2011, 47, 12578.	2.2	781
23	Growth of ultrathin mesoporous Co <sub>3</sub> O <sub>4</sub> nanosheet arrays on Ni foam for high-performance electrochemical capacitors. <i>Energy and Environmental Science</i> , 2012, 5, 7883.	15.6	780
24	Construction of hierarchical Ni-Co-P hollow nanobricks with oriented nanosheets for efficient overall water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 872-880.	15.6	773
25	Assembling carbon-coated $\text{Fe}_2\text{O}_3$ hollow nanohorns on the CNT backbone for superior lithium storage capability. <i>Energy and Environmental Science</i> , 2012, 5, 5252-5256.	15.6	767
26	Hollow Carbon Nanofibers Filled with MnO <sub>2</sub> Nanosheets as Efficient Sulfur Hosts for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12886-12890.	7.2	765
27	Non-Noble-Metal-Based Electrocatalysts toward the Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 1910274.	7.8	760
28	Single-crystalline NiCo <sub>2</sub> O <sub>4</sub> nanoneedle arrays grown on conductive substrates as binder-free electrodes for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2012, 5, 9453.	15.6	754
29	Quasiemulsion-Templated Formation of $\text{Fe}_2\text{O}_3$ Hollow Spheres with Enhanced Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 17146-17148.	6.6	750
30	SnO <sub>2</sub> -Based Nanomaterials: Synthesis and Application in Lithium-Ion Batteries. <i>Small</i> , 2013, 9, 1877-1893.	5.2	729
31	Carbon-Incorporated Nickel-Cobalt Mixed Metal Phosphide Nanoboxes with Enhanced Electrocatalytic Activity for Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3897-3900.	7.2	725
32	Self-Templated Formation of Uniform NiCo <sub>2</sub> O <sub>4</sub> Hollow Spheres with Complex Interior Structures for Lithium-Ion Batteries and Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1868-1872.	7.2	713
33	Confining Sulfur in Double-Shelled Hollow Carbon Spheres for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9592-9595.	7.2	692
34	Metal-Organic-Framework-Based Materials as Platforms for Renewable Energy and Environmental Applications. <i>Joule</i> , 2017, 1, 77-107.	11.7	673
35	Double-Shelled CoMn <sub>2</sub> O <sub>4</sub> Hollow Microcubes as High-Capacity Anodes for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 745-748.	11.1	665
36	Metal Sulfide Hollow Nanostructures for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1501333.	10.2	663

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37	Mixed Metal Sulfides for Electrochemical Energy Storage and Conversion. <i>Advanced Energy Materials</i> , 2018, 8, 1701592.	10.2	647
38	Complex Nanostructures from Materials based on Metal-Organic Frameworks for Electrochemical Energy Storage and Conversion. <i>Advanced Materials</i> , 2017, 29, 1703614.	11.1	629
39	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017, 29, 1604563.	11.1	627
40	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell heterostructured nanowire arrays on Ni foam as high-performance supercapacitor electrodes. <i>Chemical Communications</i> , 2013, 49, 137-139.	2.2	622
41	Formation of ZnMn <sub>2</sub> O <sub>4</sub> Ball-in-Ball Hollow Microspheres as a High-Performance Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 4609-4613.	11.1	603
42	Rational designs and engineering of hollow micro-/nanostructures as sulfur hosts for advanced lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2016, 9, 3061-3070.	15.6	598
43	Ultrathin MoS <sub>2</sub> Nanosheets Supported on N-Doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7395-7398.	7.2	596
44	Advanced Electrocatalysts for the Oxygen Reduction Reaction in Energy Conversion Technologies. <i>Joule</i> , 2020, 4, 45-68.	11.7	596
45	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. <i>CheM</i> , 2018, 4, 972-996.	5.8	591
46	A sulfur host based on titanium monoxide@carbon hollow spheres for advanced lithium-sulfur batteries. <i>Nature Communications</i> , 2016, 7, 13065.	5.8	590
47	One-Pot Synthesis of Cubic PtCu <sub>3</sub> Nanocages with Enhanced Electrocatalytic Activity for the Methanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 13934-13937.	6.6	581
48	Controlled Growth of NiMoO <sub>4</sub> Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1401172.	10.2	559
49	High-performance flexible asymmetric supercapacitors based on a new graphene foam/carbon nanotube hybrid film. <i>Energy and Environmental Science</i> , 2014, 7, 3709-3719.	15.6	557
50	Mesoporous Co <sub>3</sub> O <sub>4</sub> and CoO@C Topotactically Transformed from Chrysanthemum-like Co(CO <sub>3</sub> ) <sub>0.5</sub> (OH)·0.11H <sub>2</sub> O and Their Lithium-Storage Properties. <i>Advanced Functional Materials</i> , 2012, 22, 861-871.	7.8	554
51	Formation of Prussian-Blue Analog Nanocages via a Direct Etching Method and their Conversion into Ni-Co Mixed Oxide for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2016, 28, 4601-4605.	11.1	550
52	Hierarchical Ir <sub>2</sub> Mo <sub>2</sub> C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15395-15399.	7.2	546
53	Formation of Onion-Like NiCo <sub>2</sub> S <sub>4</sub> Particles via Sequential Ion-Exchange for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1605051.	11.1	539
54	Fast Formation of SnO <sub>2</sub> Nanoboxes with Enhanced Lithium Storage Capability. <i>Journal of the American Chemical Society</i> , 2011, 133, 4738-4741.	6.6	521

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55	Metal-Organic-Frameworks-Derived General Formation of Hollow Structures with High Complexity. <i>Journal of the American Chemical Society</i> , 2013, 135, 10664-10672.	6.6	520
56	Formation of Ni-Co-MoS <sub>2</sub> Nanoboxes with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 9006-9011.	11.1	511
57	Highly crystalline Ni-doped FeP/carbon hollow nanorods as all-pH efficient and durable hydrogen evolving electrocatalysts. <i>Science Advances</i> , 2019, 5, eaav6009.	4.7	508
58	Hierarchical Hollow Nanoprisms Based on Ultrathin Ni-Fe Layered Double Hydroxide Nanosheets with Enhanced Electrocatalytic Activity towards Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 172-176.	7.2	507
59	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3982-3986.	7.2	505
60	Template-free Formation of Uniform Urchin-like FeOOH Hollow Spheres with Superior Capability for Water Treatment. <i>Advanced Materials</i> , 2012, 24, 1111-1116.	11.1	504
61	Metal-organic-framework-engaged formation of Co nanoparticle-embedded carbon@Co <sub>9</sub> S <sub>8</sub> double-shelled nanocages for efficient oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 107-111.	15.6	499
62	Iron-Oxide-Based Advanced Anode Materials for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300958.	10.2	498
63	Structure-designed synthesis of FeS <sub>2</sub> @C yolk-shell nanoboxes as a high-performance anode for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1576-1580.	15.6	475
64	Hierarchical MoS <sub>2</sub> microboxes constructed by nanosheets with enhanced electrochemical properties for lithium storage and water splitting. <i>Energy and Environmental Science</i> , 2014, 7, 3302-3306.	15.6	471
65	Bowl-like SnO <sub>2</sub> @Carbon Hollow Particles as an Advanced Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12803-12807.	7.2	463
66	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018, 4, eaao6657.	4.7	460
67	Metal-Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4634-4650.	7.2	457
68	Pie-like electrode design for high-energy density lithium-sulfur batteries. <i>Nature Communications</i> , 2015, 6, 8850.	5.8	453
69	Hollow Structures Based on Prussian Blue and Its Analogs for Electrochemical Energy Storage and Conversion. <i>Advanced Materials</i> , 2019, 31, e1706825.	11.1	445
70	Free-Standing Nitrogen-Doped Carbon Nanofiber Films: Integrated Electrodes for Sodium-Ion Batteries with Ultralong Cycle Life and Superior Rate Capability. <i>Advanced Energy Materials</i> , 2016, 6, 1502217.	10.2	440
71	Formation of Nickel Sulfide Nanoframes from Metal-Organic Frameworks with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5331-5335.	7.2	439
72	Shape-Controlled Synthesis of MnO <sub>2</sub> Nanostructures with Enhanced Electrocatalytic Activity for Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1694-1700.	1.5	432

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73	Formation of Ni <sup>2+</sup> /Fe Mixed Diselenide Nanocages as a Superior Oxygen Evolution Electrocatalyst. <i>Advanced Materials</i> , 2017, 29, 1703870.	11.1	428
74	Facile synthesis of hierarchical MoS <sub>2</sub> microspheres composed of few-layered nanosheets and their lithium storage properties. <i>Nanoscale</i> , 2012, 4, 95-98.	2.8	425
75	Ultrathin and Ultralong Single-Crystal Platinum Nanowire Assemblies with Highly Stable Electrocatalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 9480-9485.	6.6	425
76	Self-supported formation of hierarchical NiCo <sub>2</sub> O <sub>4</sub> tetragonal microtubes with enhanced electrochemical properties. <i>Energy and Environmental Science</i> , 2016, 9, 862-866.	15.6	422
77	One-Pot Synthesis of Carbon-Coated SnO <sub>2</sub> Nanocolloids with Improved Reversible Lithium Storage Properties. <i>Chemistry of Materials</i> , 2009, 21, 2868-2874.	3.2	421
78	Controlled Growth of NiCo <sub>2</sub> O <sub>4</sub> Nanorods and Ultrathin Nanosheets on Carbon Nanofibers for High-performance Supercapacitors. <i>Scientific Reports</i> , 2013, 3, 1470.	1.6	417
79	Formation of Ni <sub>2</sub> Co <sub>3</sub> S <sub>4</sub> Hollow Nanoprisms with Enhanced Pseudocapacitive Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3711-3714.	7.2	417
80	Sb@C coaxial nanotubes as a superior long-life and high-rate anode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2314-2318.	15.6	414
81	Hierarchical Tubular Structures Composed of Co <sub>3</sub> O <sub>4</sub> Hollow Nanoparticles and Carbon Nanotubes for Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5990-5993.	7.2	413
82	Preparation of SnO <sub>2</sub> /Carbon Composite Hollow Spheres and Their Lithium Storage Properties. <i>Chemistry of Materials</i> , 2008, 20, 6562-6566.	3.2	410
83	One-Pot Synthesis of Pt-Co Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3797-3801.	7.2	407
84	Formation of Hierarchical Cu-Doped CoSe <sub>2</sub> Microboxes via Sequential Ion Exchange for High-Performance Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1706668.	11.1	402
85	Formation of Uniform Fe <sub>3</sub> O <sub>4</sub> Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , 2015, 27, 4097-4101.	11.1	396
86	Formation of SnO <sub>2</sub> Hollow Nanospheres inside Mesoporous Silica Nanoreactors. <i>Journal of the American Chemical Society</i> , 2011, 133, 21-23.	6.6	391
87	SnO <sub>2</sub> nanosheets grown on graphene sheets with enhanced lithium storage properties. <i>Chemical Communications</i> , 2011, 47, 7155.	2.2	387
88	Metal-Organic Framework Hybrid-Assisted Formation of Co <sub>3</sub> O <sub>4</sub> /CoFe Oxide Double-Shelled Nanoboxes for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2018, 30, e1801211.	11.1	374
89	Formation of Double-Shelled Zinc-Cobalt Sulfide Dodecahedral Cages from Bimetallic Zeolitic Imidazolate Frameworks for Hybrid Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7141-7145.	7.2	371
90	Self-assembled monolayers direct a LiF-rich interphase toward long-life lithium metal batteries. <i>Science</i> , 2022, 375, 739-745.	6.0	368

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91	Mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Hollow Spheres with Enhanced Lithium Storage Capability. <i>Advanced Materials</i> , 2013, 25, 2296-2300.	11.1	364
92	General Formation of $\text{M}@\text{MoS}_3$ (M = Co, Ni) Hollow Structures with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 92-97.	11.1	364
93	Interfacing Manganese Oxide and Cobalt in Porous Graphitic Carbon Polyhedrons Boosts Oxygen Electrocatalysis for Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1902339.	11.1	363
94	Flexible Hybrid Paper Made of Monolayer $\text{Co}_3\text{O}_4$ Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2012, 22, 2560-2566.	7.8	362
95	Hierarchical $\text{MoS}_2$ tubular structures internally wired by carbon nanotubes as a highly stable anode material for lithium-ion batteries. <i>Science Advances</i> , 2016, 2, e1600021.	4.7	362
96	Top-Down Fabrication of $\text{Fe}_2\text{O}_3$ Single-Crystal Nanodiscs and Microparticles with Tunable Porosity for Largely Improved Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 13162-13164.	6.6	359
97	Rationally designed hierarchical N-doped carbon@ $\text{NiCo}_2\text{O}_4$ double-shelled nanoboxes for enhanced visible light $\text{CO}_2$ reduction. <i>Energy and Environmental Science</i> , 2018, 11, 306-310.	15.6	357
98	Carbon-Coated CdS Petalous Nanostructures with Enhanced Photostability and Photocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5636-5639.	7.2	355
99	Embedding Sulfur in MOF-Derived Microporous Carbon Polyhedrons for Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2013, 19, 10804-10808.	1.7	355
100	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. <i>Nanoscale</i> , 2011, 3, 1084-1089.	2.8	352
101	Facile synthesis of mesoporous $\text{Ni}_0.3\text{Co}_2.7\text{O}_4$ hierarchical structures for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2013, 6, 3619.	15.6	347
102	Formation of $\text{CoS}_2$ Nanobubble Hollow Prisms for Highly Reversible Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13422-13426.	7.2	346
103	Construction of $\text{CoO}/\text{Cu}$ Hierarchical Tubular Heterostructures for Hybrid Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15441-15447.	7.2	346
104	Coordination Polymers Derived General Synthesis of Multishelled Mixed Metal-Oxide Particles for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1605902.	11.1	345
105	A dual-metal-organic-framework derived electrocatalyst for oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 3092-3096.	15.6	344
106	Hydrothermal Synthesis of $\text{Fe-MoO}_3$ Nanorods via Acidification of Ammonium Heptamolybdate Tetrahydrate. <i>Chemistry of Materials</i> , 2002, 14, 4781-4789.	3.2	342
107	Shape-controlled synthesis of porous $\text{Co}_3\text{O}_4$ nanostructures for application in supercapacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 7015.	6.7	341
108	Amorphous $\text{CoSnO}_3$ @C nanoboxes with superior lithium storage capability. <i>Energy and Environmental Science</i> , 2013, 6, 87-91.	15.6	337

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109	Glucose-Assisted Growth of MoS <sub>2</sub> Nanosheets on CNT Backbone for Improved Lithium Storage Properties. Chemistry - A European Journal, 2011, 17, 13142-13145.	1.7	334
110	Metal Atom-Doped Co <sub>3</sub> O <sub>4</sub> Hierarchical Nanoplates for Electrocatalytic Oxygen Evolution. Advanced Materials, 2020, 32, e2002235.	11.1	332
111	A bi-functional device for self-powered electrochromic window and self-rechargeable transparent battery applications. Nature Communications, 2014, 5, 4921.	5.8	328
112	SnO <sub>2</sub> hollow structures and TiO <sub>2</sub> nanosheets for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 9912.	6.7	327
113	Two-dimensional nanosheets for photoelectrochemical water splitting: Possibilities and opportunities. Nano Today, 2013, 8, 598-618.	6.2	326
114	Confining SnS <sub>2</sub> Ultrathin Nanosheets in Hollow Carbon Nanostructures for Efficient Capacitive Sodium Storage. Joule, 2018, 2, 725-735.	11.7	324
115	Hierarchical nickel sulfide hollow spheres for high performance supercapacitors. RSC Advances, 2011, 1, 397.	1.7	322
116	Efficient Electrochemical Reduction of CO <sub>2</sub> to HCOOH over Sub-20-nm SnO <sub>2</sub> Quantum Wires with Exposed Grain Boundaries. Angewandte Chemie - International Edition, 2019, 58, 8499-8503.	7.2	322
117	Formation of 1D Hierarchical Structures Composed of Ni <sub>3</sub> S <sub>2</sub> Nanosheets on CNTs Backbone for Supercapacitors and Photocatalytic H <sub>2</sub> Production. Advanced Energy Materials, 2012, 2, 1497-1502.	10.2	321
118	A general dual-templating approach to biomass-derived hierarchically porous heteroatom-doped carbon materials for enhanced electrocatalytic oxygen reduction. Energy and Environmental Science, 2019, 12, 648-655.	15.6	318
119	A General Route to Nonspherical Anatase TiO <sub>2</sub> Hollow Colloids and Magnetic Multifunctional Particles. Advanced Materials, 2008, 20, 1853-1858.	11.1	315
120	Surface Modulation of Hierarchical MoS <sub>2</sub> Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1807086.	7.8	314
121	Thermal formation of mesoporous single-crystal Co <sub>3</sub> O <sub>4</sub> nano-needles and their lithium storage properties. Journal of Materials Chemistry, 2008, 18, 4397.	6.7	312
122	Ultrafine Dual-Phased Carbide Nanocrystals Confined in Porous Nitrogen-Doped Carbon Dodecahedrons for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1900699.	11.1	311
123	Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. Angewandte Chemie - International Edition, 2016, 55, 9514-9518.	7.2	308
124	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. Advanced Materials, 2019, 31, e1900281.	11.1	307
125	Graphene-supported anatase TiO <sub>2</sub> nanosheets for fast lithium storage. Chemical Communications, 2011, 47, 5780.	2.2	305
126	Designed Formation of Double-Shelled Ni-Fe Layered Hydroxide Nanocages for Efficient Oxygen Evolution Reaction. Advanced Materials, 2020, 32, e1906432.	11.1	305



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127	Hierarchical Tubular Structures Constructed by Carbon-Coated SnO <sub>2</sub> Nanoplates for Highly Reversible Lithium Storage. <i>Advanced Materials</i> , 2013, 25, 2589-2593.	11.1	304
128	Recent progress on graphene-based hybrid electrocatalysts. <i>Materials Horizons</i> , 2014, 1, 379-399.	6.4	303
129	The Design and Synthesis of Hollow Micro-/Nanostructures: Present and Future Trends. <i>Advanced Materials</i> , 2018, 30, e1800939.	11.1	301
130	Rational Design of Three-Layered TiO <sub>2</sub> @Carbon@MoS <sub>2</sub> Hierarchical Nanotubes for Enhanced Lithium Storage. <i>Advanced Materials</i> , 2017, 29, 1702724.	11.1	300
131	Supporting Ultrathin ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets on Co/N-Doped Graphitic Carbon Nanocages for Efficient Photocatalytic H <sub>2</sub> Generation. <i>Advanced Materials</i> , 2019, 31, e1903404.	11.1	300
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133	Green Synthesis of NiO Nanobelts with Exceptional Pseudo-Capacitive Properties. <i>Advanced Energy Materials</i> , 2012, 2, 1188-1192.	10.2	297
134	Glucose-Assisted One-Pot Synthesis of FeOOH Nanorods and Their Transformation to Fe <sub>3</sub> O <sub>4</sub> @Carbon Nanorods for Application in Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9814-9820.	1.5	295
135	Synthesis of Highly Uniform Molybdenum-Glycerate Spheres and Their Conversion into Hierarchical MoS <sub>2</sub> Hollow Nanospheres for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7423-7426.	7.2	288
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137	A Flexible TiO <sub>2</sub> (B)-Based Battery Electrode with Superior Power Rate and Ultralong Cycle Life. <i>Advanced Materials</i> , 2013, 25, 3462-3467.	11.1	286
138	Formation of Yolk-Shelled Ni-Co Mixed Oxide Nanoprisms with Enhanced Electrochemical Performance for Hybrid Supercapacitors and Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500981.	10.2	286
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140	General Formation of MS (M = Ni, Cu, Mn) Box-in-Box Hollow Structures with Enhanced Pseudocapacitive Properties. <i>Advanced Functional Materials</i> , 2014, 24, 7440-7446.	7.8	281
141	Controlled synthesis of hierarchical NiO nanosheet hollow spheres with enhanced supercapacitive performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 6602.	6.7	280
142	A Hierarchically Nanostructured Composite of MnO <sub>2</sub> /Conjugated Polymer/Graphene for High-Performance Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2011, 1, 736-741.	10.2	279
143	Template-Free Synthesis of VO <sub>2</sub> Hollow Microspheres with Various Interiors and Their Conversion into V <sub>2</sub> O <sub>5</sub> for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2226-2230.	7.2	275
144	Direct Synthesis of Anatase TiO <sub>2</sub> Nanowires with Enhanced Photocatalytic Activity. <i>Advanced Materials</i> , 2012, 24, 2567-2571.	11.1	271

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147	Nanostructured Electrode Materials for Advanced Sodium-Ion Batteries. <i>Matter</i> , 2019, 1, 90-114.	5.0	266
148	±-Fe <sub>2</sub> O <sub>3</sub> nanotubes with superior lithium storage capability. <i>Chemical Communications</i> , 2011, 47, 8061.	2.2	265
149	Controlled synthesis of hierarchical Co <sub>x</sub> Mn <sub>3-x</sub> O <sub>4</sub> array micro-/nanostructures with tunable morphology and composition as integrated electrodes for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2013, 6, 2664-2671.	15.6	265
150	Construction of Co-Mn Prussian Blue Analog Hollow Spheres for Efficient Aqueous Zn-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22189-22194.	7.2	265
151	A magnetically separable photocatalyst based on nest-like <sup>3</sup> -Fe <sub>2</sub> O <sub>3</sub> /ZnO double-shelled hollow structures with enhanced photocatalytic activity. <i>Nanoscale</i> , 2012, 4, 183-187.	2.8	262
152	Formation of Uniform N-doped Carbon-Coated SnO <sub>2</sub> Submicroboxes with Enhanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016, 6, 1600451.	10.2	262
153	Construction of Complex Co <sub>3</sub> O <sub>4</sub> @Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> Hollow Structures from Metal-Organic Frameworks with Enhanced Lithium Storage Properties. <i>Advanced Materials</i> , 2018, 30, 1702875.	11.1	262
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155	One-Dimensional Hierarchical Structures Composed of Novel Metal Oxide Nanosheets on a Carbon Nanotube Backbone and Their Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2011, 21, 4120-4125.	7.8	256
156	Uniform V <sub>2</sub> O <sub>5</sub> nanosheet-assembled hollow microflowers with excellent lithium storage properties. <i>Energy and Environmental Science</i> , 2013, 6, 1476.	15.6	256
157	Unveiling the Activity Origin of Electrocatalytic Oxygen Evolution over Isolated Ni Atoms Supported on a N-doped Carbon Matrix. <i>Advanced Materials</i> , 2019, 31, e1904548.	11.1	256
158	A Compact Nanoconfined Sulfur Cathode for High-Performance Lithium-Sulfur Batteries. <i>Joule</i> , 2017, 1, 576-587.	11.7	255
159	Confining Sub-Nanometer Pt Clusters in Hollow Mesoporous Carbon Spheres for Boosting Hydrogen Evolution Activity. <i>Advanced Materials</i> , 2020, 32, e1901349.	11.1	255
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161	Arrays of ultrafine CuS nanoneedles supported on a CNT backbone for application in supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 7851.	6.7	253
162	Doping high-surface-area mesoporous TiO <sub>2</sub> microspheres with carbonate for visible light hydrogen production. <i>Energy and Environmental Science</i> , 2014, 7, 2592.	15.6	253

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164	TiO <sub>2</sub> Nanocages: Fast Synthesis, Interior Functionalization and Improved Lithium Storage Properties. <i>Advanced Materials</i> , 2012, 24, 4124-4129.	11.1	250
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177	Anatase TiO <sub>2</sub> nanosheet: An ideal host structure for fast and efficient lithium insertion/extraction. <i>Electrochemistry Communications</i> , 2009, 11, 2332-2335.	2.3	228
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180	Porous Iron-Cobalt Alloy/Nitrogen-Doped Carbon Cages Synthesized via Pyrolysis of Complex Metal-Organic Framework Hybrids for Oxygen Reduction. <i>Advanced Functional Materials</i> , 2018, 28, 1706738.	7.8	227

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186	Self-Supported Construction of Uniform Fe <sub>3</sub> O <sub>4</sub> Hollow Microspheres from Nanoplate Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4165-4168.	7.2	222
187	General Synthesis of Multi-Shelled Mixed Metal Oxide Hollow Spheres with Superior Lithium Storage Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9041-9044.	7.2	222
188	Ultrasmall MoO <sub>x</sub> Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1804883.	11.1	222
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195	Construction of hybrid bowl-like structures by anchoring NiO nanosheets on flat carbon hollow particles with enhanced lithium storage properties. <i>Energy and Environmental Science</i> , 2015, 8, 1707-1711.	15.6	215
196	Bismuth oxide: a versatile high-capacity electrode material for rechargeable aqueous metal-ion batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2881-2891.	15.6	215
197	A highly stable lithium metal anode enabled by Ag nanoparticle-embedded nitrogen-doped carbon macroporous fibers. <i>Science Advances</i> , 2021, 7, .	4.7	212
198	Self-Supported Interconnected Pt Nanoassemblies as Highly Stable Electrocatalysts for Low-Temperature Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7213-7216.	7.2	211

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200	Construction of Hierarchical $\text{CoFe}$ Oxyphosphide Microtubes for Electrocatalytic Overall Water Splitting. <i>Advanced Science</i> , 2019, 6, 1900576.	5.6	208
201	Nitrogen-Doped Cobalt Pyrite Yolk-Shell Hollow Spheres for Long-Life Rechargeable Zn-Air Batteries. <i>Advanced Science</i> , 2020, 7, 2001178.	5.6	206
202	Graphene Layers-Wrapped $\text{Fe}_5\text{C}_2$ Nanoparticles Supported on N-Doped Graphene Nanosheets for Highly Efficient Oxygen Reduction. <i>Advanced Energy Materials</i> , 2018, 8, 1702476.	10.2	205
203	One-pot formation of $\text{SnO}_2$ hollow nanospheres and $\text{Fe}_2\text{O}_3@/\text{SnO}_2$ nanorattles with large void space and their lithium storage properties. <i>Nanoscale</i> , 2009, 1, 280.	2.8	204
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206	Facile Synthesis of Multi-shelled ZnS-CdS Cages with Enhanced Photoelectrochemical Performance for Solar Energy Conversion. <i>Chem</i> , 2018, 4, 162-173.	5.8	202
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218	One-pot synthesis of uniform carbon-coated MoO <sub>2</sub> nanospheres for high-rate reversible lithium storage. <i>Chemical Communications</i> , 2010, 46, 6906.	2.2	185
219	Formation of Triple-Shelled Molybdenum-Polydopamine Hollow Spheres and Their Conversion into MoO <sub>2</sub> /Carbon Composite Hollow Spheres for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14668-14672.	7.2	185
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238	Co-Fe Alloy/N-Doped Carbon Hollow Spheres Derived from Dual Metal-Organic Frameworks for Enhanced Electrocatalytic Oxygen Reduction. <i>Small</i> , 2019, 15, e1805324.	5.2	172
239	Carbon-supported ultra-thin anatase TiO <sub>2</sub> nanosheets for fast reversible lithium storage. <i>Journal of Materials Chemistry</i> , 2011, 21, 5687.	6.7	171
240	SnO <sub>2</sub> nanosheet hollow spheres with improved lithium storage capabilities. <i>Nanoscale</i> , 2011, 3, 3586.	2.8	169
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