

# Zm Wang

## List of Publications by Year in descending order

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474  
papers

58,360  
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587

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476  
docs citations

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times ranked

36117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. <i>Chemical Reviews</i> , 2016, 116, 10983-11060.	23.0	1,215
2	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
3	Recent advances in micro-/nano-structured hollow spheres for energy applications: From simple to complex systems. <i>Energy and Environmental Science</i> , 2012, 5, 5604-5618.	15.6	1,069
4	Designed Formation of $\text{Co}_3\text{O}_4/\text{NiCo}_2\text{O}_4$ 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
5	Self-Templated Formation of Uniform $\text{NiCo}_2\text{O}_4$ 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
6	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
7	Double-Shelled $\text{CoMn}_2\text{O}_4$ Hollow Microcubes as High-Capacity Anodes for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 745-748.	11.1	665
8	Metal Sulfide Hollow Nanostructures for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1501333.	10.2	663
9	Accurate Control of Multishelled $\text{Co}_3\text{O}_4$ Hollow Microspheres as High-Performance Anode Materials in Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6417-6420.	7.2	650
10	Synthesis and Lithium Storage Properties of $\text{Co}_3\text{O}_4$ Nanosheet-Assembled Multishelled Hollow Spheres. <i>Advanced Functional Materials</i> , 2010, 20, 1680-1686.	7.8	642
11	$\text{Fe}_2\text{O}_3$ -multi-shelled hollow microspheres for lithium ion battery anodes with superior capacity and charge retention. <i>Energy and Environmental Science</i> , 2014, 7, 632-637.	15.6	630
12	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017, 29, 1604563.	11.1	627
13	Hollow Micro/Nanomaterials with Multilevel Interior Structures. <i>Advanced Materials</i> , 2009, 21, 3621-3638.	11.1	616
14	Symmetric and Asymmetric Ostwald Ripening in the Fabrication of Homogeneous Core-Shell Semiconductors. <i>Small</i> , 2005, 1, 566-571.	5.2	604
15	Formation of $\text{ZnMn}_2\text{O}_4$ 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
16	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015, 44, 6749-6773.	18.7	603
17	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
18	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. <i>CheM</i> , 2018, 4, 972-996.	5.8	591

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19	TiO <sub>2</sub> -Coated Multilayered SnO <sub>2</sub> Hollow Microspheres for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009, 21, 3663-3667.	11.1	541
20	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
21	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>Chem</i> , 2016, 1, 102-113.	5.8	525
22	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017, 29, 1602914.	11.1	523
23	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
24	General Synthesis and Gas-Sensing Properties of Multiple-Shell Metal Oxide Hollow Microspheres. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2738-2741.	7.2	517
25	One-Pot Synthesis and Hierarchical Assembly of Hollow Cu <sub>2</sub> O Microspheres with Nanocrystals-Composed Porous Multishell and Their Gas-Sensing Properties. <i>Advanced Functional Materials</i> , 2007, 17, 2766-2771.	7.8	505
26	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
27	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
28	Accurate Control of Multishelled ZnO Hollow Microspheres for Dye-Sensitized Solar Cells with High Efficiency. <i>Advanced Materials</i> , 2012, 24, 1046-1049.	11.1	482
29	Template Synthesis of Multishelled Cu <sub>2</sub> O Hollow Spheres with a Single-Crystalline Shell Wall. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1489-1492.	7.2	469
30	Dual-Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen-Doped Double-Shelled Hollow Carbon Spheres and Wrapped with Graphene for Li-S Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1402263.	10.2	459
31	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701415.	10.2	436
32	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13644-13653.	6.6	430
33	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
34	Multishelled TiO <sub>2</sub> Hollow Microspheres as Anodes with Superior Reversible Capacity for Lithium Ion Batteries. <i>Nano Letters</i> , 2014, 14, 6679-6684.	4.5	406
35	MS <sub>2</sub> (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 2155-2162.	7.8	398
36	Self-Templated Formation of Hollow Structures for Electrochemical Energy Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 293-301.	7.6	397

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37	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. Nano Letters, 2017, 17, 2034-2042.	4.5	386
38	One-Pot Facile Synthesis of Double-Shelled SnO <sub>2</sub> Yolk-Shell Structured Powders by Continuous Process as Anode Materials for Li-Ion Batteries. Advanced Materials, 2013, 25, 2279-2283.	11.1	378
39	Metal-Organic Framework Hybrid-Assisted Formation of Co <sub>3</sub> O <sub>4</sub> /Co-Fe Oxide Double-Shelled Nanoboxes for Enhanced Oxygen Evolution. Advanced Materials, 2018, 30, e1801211.	11.1	374
40	Formation of Double-Shelled Zinc-Cobalt Sulfide Dodecahedral Cages from Bimetallic Zeolitic Imidazolate Frameworks for Hybrid Supercapacitors. Angewandte Chemie - International Edition, 2017, 56, 7141-7145.	7.2	371
41	Hollow Functional Materials Derived from Metal-Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. Advanced Materials, 2019, 31, e1804903.	11.1	370
42	Thylakoid-Inspired Multishell g-C <sub>3</sub> N <sub>4</sub> Nanocapsules with Enhanced Visible-Light Harvesting and Electron Transfer Properties for High-Efficiency Photocatalysis. ACS Nano, 2017, 11, 1103-1112.	7.3	368
43	Metal organic frameworks-derived Co <sub>3</sub> O <sub>4</sub> hollow dodecahedrons with controllable interiors as outstanding anodes for Li storage. Journal of Materials Chemistry A, 2014, 2, 12194-12200.	5.2	353
44	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. Nature Energy, 2016, 1, .	19.8	352
45	Coordination Polymers Derived General Synthesis of Multishelled Mixed Metal-Oxide Particles for Hybrid Supercapacitors. Advanced Materials, 2017, 29, 1605902.	11.1	345
46	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
47	Multilayer CuO@NiO Hollow Spheres: Microwave-Assisted Metal-Organic-Framework Derivation and Highly Reversible Structure-Matched Stepwise Lithium Storage. ACS Nano, 2015, 9, 11462-11471.	7.3	324
48	Recent developments in the chemical synthesis of inorganic porous capsules. Journal of Materials Chemistry, 2009, 19, 6073.	6.7	314
49	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. Advanced Materials, 2019, 31, e1900281.	11.1	307
50	The Design and Synthesis of Hollow Micro-Nanostructures: Present and Future Trends. Advanced Materials, 2018, 30, e1800939.	11.1	301
51	Hollow Multi-Shelled Structures of Co <sub>3</sub> O <sub>4</sub> Dodecahedron with Unique Crystal Orientation for Enhanced Photocatalytic CO <sub>2</sub> Reduction. Journal of the American Chemical Society, 2019, 141, 2238-2241.	6.6	287
52	Shell-by-Shell Synthesis of Tin Oxide Hollow Colloids with Nanoarchitected Walls: Cavity Size Tuning and Functionalization. Small, 2007, 3, 261-265.	5.2	286
53	Quintuple-Shelled SnO <sub>2</sub> Hollow Microspheres with Superior Light Scattering for High-Performance Dye-Sensitized Solar Cells. Advanced Materials, 2014, 26, 905-909.	11.1	283
54	General Formation of MS (M = Ni, Cu, Mn) Box-in-Box Hollow Structures with Enhanced Pseudocapacitive Properties. Advanced Functional Materials, 2014, 24, 7440-7446.	7.8	281

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55	Multi-shelled Hollow Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5512-5516.	7.2	280
56	Hydrothermal Etching Assisted Crystallization: A Facile Route to Functional Yolk-Shell Titanate Microspheres with Ultrathin Nanosheets-Assembled Double Shells. <i>Journal of the American Chemical Society</i> , 2011, 133, 15830-15833.	6.6	278
57	Template-Free Synthesis of $\text{VO}_2$ Hollow Microspheres with Various Interiors and Their Conversion into $\text{V}_2\text{O}_5$ for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2226-2230.	7.2	275
58	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. <i>Journal of the American Chemical Society</i> , 2017, 139, 13492-13498.	6.6	264
59	Multi-shelled $\text{CeO}_2$ hollow microspheres as superior photocatalysts for water oxidation. <i>Nanoscale</i> , 2014, 6, 4072-4077.	2.8	262
60	Construction of Complex $\text{Co}_3\text{O}_4 @ \text{Co}_3\text{V}_2\text{O}_8$ Hollow Structures from Metal-Organic Frameworks with Enhanced Lithium Storage Properties. <i>Advanced Materials</i> , 2018, 30, 1702875.	11.1	262
61	General Synthesis of Multishell Mixed-Metal Oxyphosphide Particles with Enhanced Electrocatalytic Activity in the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2386-2389.	7.2	257
62	Porous double-shell $\text{CdS} @ \text{C}_3\text{N}_4$ octahedron derived by in situ supramolecular self-assembly for enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 33-40.	10.8	255
63	Rational design of yolk-shell nanostructures for photocatalysis. <i>Chemical Society Reviews</i> , 2019, 48, 1874-1907.	18.7	254
64	Design of highly stable and selective core/yolk-shell nanocatalysts—A review. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 324-341.	10.8	249
65	Formation of $\text{Fe}_3\text{O}_4 @ \text{MnO}_2$ ball-in-ball hollow spheres as a high performance catalyst with enhanced catalytic performances. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1414-1422.	5.2	248
66	Engineering Nonspherical Hollow Structures with Complex Interiors by Template-Engaged Redox Etching. <i>Journal of the American Chemical Society</i> , 2010, 132, 16271-16277.	6.6	241
67	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019, 31, e1800426.	11.1	239
68	A Facile Multi-interface Transformation Approach to Monodisperse Multiple-Shelled Periodic Mesoporous Organosilica Hollow Spheres. <i>Journal of the American Chemical Society</i> , 2015, 137, 7935-7944.	6.6	238
69	Controllable preparation of multishelled $\text{NiO}$ hollow nanospheres via layer-by-layer self-assembly for supercapacitor application. <i>Journal of Power Sources</i> , 2014, 246, 24-31.	4.0	232
70	<i>In Situ</i> Self-Template Synthesis of Fe-N-Doped Double-Shelled Hollow Carbon Microspheres for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2018, 12, 208-216.	7.3	231
71	$\text{ZnO}$ Hollow Spheres with Double-Yolk Egg Structure for High-Performance Photocatalysts and Photodetectors. <i>Advanced Materials</i> , 2012, 24, 3421-3425.	11.1	223
72	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

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73	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <i>Chemical Society Reviews</i> , 2018, 47, 8173-8202.	18.7	222
74	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259.	9.5	221
75	General Synthesis of Homogeneous Hollow Core-Shell Ferrite Microspheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2792-2797.	1.5	220
76	Double-Walled SnO <sub>2</sub> Nano-Cocoons with Movable Magnetic Cores. <i>Advanced Materials</i> , 2007, 19, 3328-3332.	11.1	219
77	Metal-organic framework-derived CoSe <sub>2</sub> /(NiCo)Se <sub>2</sub> box-in-box hollow nanocubes with enhanced electrochemical properties for sodium-ion storage and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18823-18830.	5.2	213
78	Constructing SrTiO <sub>3</sub> -TiO <sub>2</sub> Heterogeneous Hollow Multi-Shelled Structures for Enhanced Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1422-1426.	7.2	212
79	Hollow Metal-Organic Framework Micro/Nanostructures and their Derivatives: Emerging Multifunctional Materials. <i>Advanced Materials</i> , 2019, 31, e1803291.	11.1	210
80	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. <i>Journal of Materials Chemistry</i> , 2010, 20, 4595.	6.7	208
81	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
82	Soft Template Synthesis of Yolk/Silica Shell particles. <i>Advanced Materials</i> , 2010, 22, 1516-1520.	11.1	200
83	Core-shell yolk-shell Si@C@Void@C nanohybrids as advanced lithium ion battery anodes with good electronic conductivity and corrosion resistance. <i>Journal of Power Sources</i> , 2017, 342, 529-536.	4.0	200
84	Multilayered Nanocrystalline SnO <sub>2</sub> Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14067-14071.	1.5	195
85	Double-shell Li-rich layered oxide hollow microspheres with sandwich-like carbon@spinel@layered@spinel@carbon shells as high-rate lithium ion battery cathode. <i>Nano Energy</i> , 2019, 59, 184-196.	8.2	194
86	Cheap and scalable synthesis of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> multi-shelled hollow spheres as high-performance anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2013, 49, 8695.	2.2	192
87	Synthesis of MOF-derived nanostructures and their applications as anodes in lithium and sodium ion batteries. <i>Coordination Chemistry Reviews</i> , 2019, 388, 172-201.	9.5	192
88	Multi-shelled hollow micro-/nanostructures: promising platforms for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 414-430.	3.2	189
89	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
90	Synthesis of CuS@CoS <sub>2</sub> Double-Shelled Nanoboxes with Enhanced Sodium Storage Properties. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7739-7743.	7.2	184

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91	Serial Ionic Exchange for the Synthesis of Multishelled Copper Sulfide Hollow Spheres. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 949-952.	7.2	182
92	Synthesis of Cobalt Sulfide Multi-shelled Nanoboxes with Precisely Controlled Two to Five Shells for Sodium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2675-2679.	7.2	182
93	A Templated Method to Bi <sub>2</sub> WO <sub>6</sub> Hollow Microspheres and Their Conversion to Double-Shell Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> Hollow Microspheres with Improved Photocatalytic Performance. <i>Inorganic Chemistry</i> , 2012, 51, 6245-6250.	1.9	178
94	Integrating large specific surface area and high conductivity in hydrogenated NiCo <sub>2</sub> O <sub>4</sub> double-shell hollow spheres to improve supercapacitors. <i>NPG Asia Materials</i> , 2015, 7, e165-e165.	3.8	177
95	Metal oxide hollow nanostructures: Fabrication and Li storage performance. <i>Journal of Power Sources</i> , 2013, 238, 376-387.	4.0	174
96	MOF-derived hierarchical double-shelled NiO/ZnO hollow spheres for high-performance supercapacitors. <i>Dalton Transactions</i> , 2016, 45, 13311-13316.	1.6	172
97	Nitrogen-doped porous interconnected double-shelled hollow carbon spheres with high capacity for lithium ion batteries and sodium ion batteries. <i>Electrochimica Acta</i> , 2015, 155, 174-182.	2.6	166
98	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 281-295.	4.0	160
99	Hollow Multishelled Structures for Promising Applications: Understanding the Structure-Performance Correlation. <i>Accounts of Chemical Research</i> , 2019, 52, 2169-2178.	7.6	160
100	Cobalt(ii,iii) oxide hollow structures: fabrication, properties and applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 23310.	6.7	156
101	Self-Templating Approaches to Hollow Nanostructures. <i>Advanced Materials</i> , 2019, 31, e1802349.	11.1	156
102	Template-Assisted Formation of Rattle-type V <sub>2</sub> O <sub>5</sub> Hollow Microspheres with Enhanced Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2013, 23, 5669-5674.	7.8	154
103	pH-Regulated Synthesis of Multi-shelled Manganese Oxide Hollow Microspheres as Supercapacitor Electrodes Using Carbonaceous Microspheres as Templates. <i>Advanced Science</i> , 2014, 1, 1400011.	5.6	154
104	Sequential Templating Approach: A Groundbreaking Strategy to Create Hollow Multishelled Structures. <i>Advanced Materials</i> , 2019, 31, e1802874.	11.1	153
105	MOF-derived hollow double-shelled NiO nanospheres for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 734, 1-8.	2.8	152
106	Hollow Multi-shelled Structural TiO <sub>2</sub> with Multiple Spatial Confinement for Long-Life Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9078-9082.	7.2	149
107	Multi Ball-in-Ball Hybrid Metal Oxides. <i>Advanced Materials</i> , 2011, 23, 1720-1723.	11.1	146
108	Hollow ZSM-5 with Silicon-Rich Surface, Double Shells, and Functionalized Interior with Metallic Nanoparticles and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2015, 25, 7479-7487.	7.8	145

#	ARTICLE	IF	CITATIONS
109	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 18609-18617.	4.0	144
110	The Application of Hollow Structured Anodes for Sodium-Ion Batteries: From Simple to Complex Systems. Advanced Materials, 2019, 31, e1800492.	11.1	143
111	Multishell Hollow Metal/Nitrogen/Carbon Dodecahedrons with Precisely Controlled Architectures and Synergistically Enhanced Catalytic Properties. ACS Nano, 2019, 13, 7800-7810.	7.3	143
112	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 15475.	6.7	141
113	Designing an asymmetric device based on graphene wrapped yolk-shell NiGa <sub>2</sub> S <sub>4</sub> hollow microspheres and graphene wrapped FeS <sub>2</sub> @FeSe <sub>2</sub> core-shell cratered spheres with outstanding energy density. Journal of Materials Chemistry A, 2019, 7, 10282-10292.	5.2	141
114	Synthesis and self-assembly of complex hollow materials. Journal of Materials Chemistry, 2011, 21, 7511.	6.7	138
115	Multi-shell hollow structured Sb <sub>2</sub> S <sub>3</sub> for sodium-ion batteries with enhanced energy density. Nano Energy, 2019, 60, 591-599.	8.2	136
116	Hollow carbon spheres with a controllable shell structure. Journal of Materials Chemistry, 2006, 16, 4413.	6.7	135
117	Shell-by-shell synthesis of multi-shelled mesoporous silica nanospheres for optical imaging and drug delivery. Biomaterials, 2011, 32, 556-564.	5.7	135
118	Yolk-Shell, Hollow, and Single-Crystalline ZnCo <sub>2</sub> O <sub>4</sub> Powders: Preparation Using a Simple One-Pot Process and Application in Lithium-Ion Batteries. ChemSusChem, 2013, 6, 2111-2116.	3.6	133
119	Mesoporous Single-crystal CoSn(OH) <sub>6</sub> Hollow Structures with Multilevel Interiors. Scientific Reports, 2013, 3, 1391.	1.6	131
120	Formation of NiCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> Yolk-Double Shell Spheres with Enhanced Lithium Storage Properties. Angewandte Chemie - International Edition, 2018, 57, 2899-2903.	7.2	131
121	MOF-derived yolk-shell CdS microcubes with enhanced visible-light photocatalytic activity and stability for hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 8680-8689.	5.2	130
122	Magnetic yolk-shell mesoporous silica microspheres with supported Au nanoparticles as recyclable high-performance nanocatalysts. Journal of Materials Chemistry A, 2015, 3, 4586-4594.	5.2	129
123	Double mesoporous silica shelled spherical/ellipsoidal nanostructures: Synthesis and hydrophilic/hydrophobic anticancer drug delivery. Journal of Materials Chemistry, 2011, 21, 5290.	6.7	128
124	Design and Preparation of MnO <sub>2</sub> /CeO <sub>2</sub> @MnO <sub>2</sub> Double-Shelled Binary Oxide Hollow Spheres and Their Application in CO Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 8670-8677.	4.0	128
125	Multi-shelled Dendritic Mesoporous Organosilica Hollow Spheres: Roles of Composition and Architecture in Cancer Immunotherapy. Angewandte Chemie - International Edition, 2017, 56, 8446-8450.	7.2	128
126	Scalable Room-Temperature Synthesis of Multi-shelled Na <sub>3</sub> (VOPO <sub>4</sub> ) <sub>2</sub> F Microsphere Cathodes. Joule, 2018, 2, 2348-2363.	11.7	128



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127	Lattice Distortion in Hollow Multi-Shell Structures for Efficient Visible-Light CO <sub>2</sub> Reduction with a SnS <sub>2</sub> /SnO <sub>2</sub> Junction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 721-724.	7.2	128
128	Synthesis for Yolk-Shell Structured Metal Sulfide Powders with Excellent Electrochemical Performances for Lithium-Ion Batteries. <i>Small</i> , 2014, 10, 474-478.	5.2	127
129	Engineering of multi-shelled SnO <sub>2</sub> hollow microspheres for highly stable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17673-17677.	5.2	127
130	Construction of hierarchical nickel cobalt selenide complex hollow spheres for pseudocapacitors with enhanced performance. <i>Electrochimica Acta</i> , 2018, 281, 109-116.	2.6	124
131	Easy synthesis of multi-shelled ZnO hollow spheres and their conversion into hedgehog-like ZnO hollow spheres with superior rate performance for lithium ion batteries. <i>Applied Surface Science</i> , 2019, 464, 472-478.	3.1	123
132	Formation of Septuple-Shell (Co <sub>2/3</sub> Mn <sub>1/3</sub> )(Co <sub>5/6</sub> Mn <sub>1/6</sub> ) <sub>2</sub> O <sub>4</sub> Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , 2017, 29, 1700550.	11.1	122
133	Synthesis of Spheres with Complex Structures Using Hollow Latex Cages as Templates. <i>Advanced Functional Materials</i> , 2005, 15, 1523-1528.	7.8	121
134	Structural Engineering of Multishelled Hollow Carbon Nanostructures for High-Performance Na-Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1800855.	10.2	121
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255	Nano-Si/C microsphere with hollow double spherical interlayer and submicron porous structure to enhance performance for lithium-ion battery anode. <i>Electrochimica Acta</i> , 2019, 312, 242-250.	2.6	55
256	Electrochemical properties of yolk-shell and hollow CoMn <sub>2</sub> O <sub>4</sub> powders directly prepared by continuous spray pyrolysis as negative electrode materials for lithium ion batteries. <i>RSC Advances</i> , 2013, 3, 13110.	1.7	54
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357	Hollow multi-shelled structures for energy conversion and storage applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2239-2259.	3.0	26
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362	Kinetically Controlled Synthesis of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 9352-9361.	1.8	25
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373	Encapsulation pyrolysis synchronous deposition for hollow carbon sphere with tunable textural properties. <i>Carbon</i> , 2019, 143, 467-474.	5.4	23
374	Synthesis of multi-shell carbon microspheres. <i>Carbon</i> , 2006, 44, 190-193.	5.4	22
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378	Mesoporous Nb <sub>2</sub> O <sub>5</sub> microspheres with filled and yolk-shell structure as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 776, 722-730.	2.8	22

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380	Precursor-mediated synthesis of double-shelled $V_2O_5$ hollow nanospheres as cathode material for lithium-ion batteries. <i>CrystEngComm</i> , 2016, 18, 4068-4073.	1.3	21
381	Synthesis of Hollow Mesoporous $TiO_2$ Microspheres with Single and Double Au Nanoparticle Layers for Enhanced Visible-Light Photocatalysis. <i>Chemistry - an Asian Journal</i> , 2018, 13, 432-439.	1.7	21
382	Synthesis of composite eccentric double-shelled hollow spheres. <i>Polymer</i> , 2009, 50, 3943-3949.	1.8	20
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