

Zm Wang

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472
papers

48,621
citations

113
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476
ext. papers

53,936
ext. citations

10.8
avg, IF

8.4
L-index

#	Paper	IF	Citations
472	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	35.4	996
471	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. <i>Chemical Reviews</i> , 2016 , 116, 10983-1060	68.1	996
470	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015 , 6, 6694	17.4	941
469	Designed Formation of Co ₃ O ₄ /NiCo ₂ O ₄ Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5590-5	16.4	880
468	Confining sulfur in double-shelled hollow carbon spheres for lithium-sulfur batteries. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9592-5	16.4	625
467	Self-templated formation of uniform NiCo ₂ O ₄ hollow spheres with complex interior structures for lithium-ion batteries and supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1868-72	16.4	618
466	Double-shelled CoMn ₂ O ₄ hollow microcubes as high-capacity anodes for lithium-ion batteries. <i>Advanced Materials</i> , 2012 , 24, 745-8	24	618
465	Synthesis and Lithium Storage Properties of Co ₃ O ₄ Nanosheet-Assembled Multishelled Hollow Spheres. <i>Advanced Functional Materials</i> , 2010 , 20, 1680-1686	15.6	615
464	Fe ₂ 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	35.4	582
463	Accurate control of multishelled Co ₃ O ₄ hollow microspheres as high-performance anode materials in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6417-20	16.4	580
462	Hollow Micro/Nanomaterials with Multilevel Interior Structures. <i>Advanced Materials</i> , 2009 , 21, 3621-3638	14	571
461	Symmetric and asymmetric Ostwald ripening in the fabrication of homogeneous core-shell semiconductors. <i>Small</i> , 2005 , 1, 566-71	11	563
460	Metal Sulfide Hollow Nanostructures for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2016 , 6, 1501333	21.8	563
459	Formation of ZnMn ₂ O ₄ ball-in-ball hollow microspheres as a high-performance anode for lithium-ion batteries. <i>Advanced Materials</i> , 2012 , 24, 4609-13	24	557
458	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015 , 44, 6749-73	58.5	540
457	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1604563	24	529
456	TiO ₂ -Coated Multilayered SnO ₂ Hollow Microspheres for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 3663-3667	24	512

455	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	35.4	502
454	One-Pot Synthesis and Hierarchical Assembly of Hollow Cu ₂ O Microspheres with Nanocrystals-Composed Porous Multishell and Their Gas-Sensing Properties. <i>Advanced Functional Materials</i> , 2007 , 17, 2766-2771	15.6	481
453	General synthesis and gas-sensing properties of multiple-shell metal oxide hollow microspheres. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2738-41	16.4	473
452	Metal-organic-frameworks-derived general formation of hollow structures with high complexity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10664-72	16.4	464
451	Accurate control of multishelled ZnO hollow microspheres for dye-sensitized solar cells with high efficiency. <i>Advanced Materials</i> , 2012 , 24, 1046-9	24	457
450	Formation of Onion-Like NiCo S Particles via Sequential Ion-Exchange for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1605051	24	453
449	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, 3982-6	16.4	447
448	Template synthesis of multishelled Cu ₂ O hollow spheres with a single-crystalline shell wall. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1489-92	16.4	445
447	Metal-organic-framework-engaged formation of Co nanoparticle-embedded carbon@Co ₉ S ₈ double-shelled nanocages for efficient oxygen reduction. <i>Energy and Environmental Science</i> , 2016 , 9, 107-111	35.4	427
446	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017 , 29, 1602914	24	424
445	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. <i>Chem</i> , 2018 , 4, 972-996	16.2	410
444	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>Chem</i> , 2016 , 1, 102-113	16.2	406
443	Dual-Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen-Doped Double-Shelled Hollow Carbon Spheres and Wrapped with Graphene for LiS Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1402263	21.8	402
442	Preparation of SnO ₂ /Carbon Composite Hollow Spheres and Their Lithium Storage Properties. <i>Chemistry of Materials</i> , 2008 , 20, 6562-6566	9.6	393
441	Multishelled TiO ₂ hollow microspheres as anodes with superior reversible capacity for lithium ion batteries. <i>Nano Letters</i> , 2014 , 14, 6679-84	11.5	366
440	MS ₂ (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. <i>Advanced Functional Materials</i> , 2014 , 24, 2155-2162	15.6	362
439	One-pot facile synthesis of double-shelled SnO ₂ /yolk-shell-structured powders by continuous process as anode materials for Li-ion batteries. <i>Advanced Materials</i> , 2013 , 25, 2279-83, 2250	24	357
438	Self-Templated Formation of Hollow Structures for Electrochemical Energy Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 293-301	24.3	336

437	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	16.4	326
436	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701415	21.8	321
435	SnO ₂ hollow structures and TiO ₂ nanosheets for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9912		308
434	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 2034-2042	11.5	306
433	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	304
432	Metal organic frameworks-derived Co ₃ O ₄ hollow dodecahedrons with controllable interiors as outstanding anodes for Li storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12194-12200	13	304
431	Recent developments in the chemical synthesis of inorganic porous capsules. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6073		303
430	Coordination Polymers Derived General Synthesis of Multishelled Mixed Metal-Oxide Particles for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1605902	24	296
429	Multilayer CuO@NiO Hollow Spheres: Microwave-Assisted Metal-Organic-Framework Derivation and Highly Reversible Structure-Matched Stepwise Lithium Storage. <i>ACS Nano</i> , 2015 , 9, 11462-71	16.7	290
428	Thylakoid-Inspired Multishell g-CN Nanocapsules with Enhanced Visible-Light Harvesting and Electron Transfer Properties for High-Efficiency Photocatalysis. <i>ACS Nano</i> , 2017 , 11, 1103-1112	16.7	289
427	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	16.4	288
426	Metal-Organic Framework Hybrid-Assisted Formation of Co O /Co-Fe Oxide Double-Shelled Nanoboxes for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1801211	24	287
425	Shell-by-shell synthesis of tin oxide hollow colloids with nanoarchitected walls: cavity size tuning and functionalization. <i>Small</i> , 2007 , 3, 261-5	11	269
424	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, 15830-3	16.4	268
423	Quintuple-shelled SnO(2) hollow microspheres with superior light scattering for high-performance dye-sensitized solar cells. <i>Advanced Materials</i> , 2014 , 26, 905-9	24	260
422	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	15.6	260
421	Hollow Functional Materials Derived from Metal-Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. <i>Advanced Materials</i> , 2019 , 31, e1804903	24	248
420	Template-free synthesis of VO ₂ hollow microspheres with various interiors and their conversion into V ₂ O ₅ for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2226-30	16.4	244

4 ¹⁹	Multi-shelled CeO ₂ hollow microspheres as superior photocatalysts for water oxidation. <i>Nanoscale</i> , 2014 , 6, 4072-7	7.7	226
4 ¹⁸	Engineering nonspherical hollow structures with complex interiors by template-engaged redox etching. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16271-7	16.4	223
4 ¹⁷	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	16.4	222
4 ¹⁶	The Design and Synthesis of Hollow Micro-/Nanostructures: Present and Future Trends. <i>Advanced Materials</i> , 2018 , 30, e1800939	24	218
4 ¹⁵	Construction of Complex Co O @Co V O Hollow Structures from Metal-Organic Frameworks with Enhanced Lithium Storage Properties. <i>Advanced Materials</i> , 2018 , 30, 1702875	24	213
4 ¹⁴	Double-Walled SnO ₂ Nano-Cocoons with Movable Magnetic Cores. <i>Advanced Materials</i> , 2007 , 19, 3328-3332	22	212
4 ¹³	Formation of Fe ₃ O ₄ @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	13	211
4 ¹²	ZnO hollow spheres with double-yolk egg structure for high-performance photocatalysts and photodetectors. <i>Advanced Materials</i> , 2012 , 24, 3421-5	24	211
4 ¹¹	Controllable preparation of multishelled NiO hollow nanospheres via layer-by-layer self-assembly for supercapacitor application. <i>Journal of Power Sources</i> , 2014 , 246, 24-31	8.9	205
4 ¹⁰	Hollow Multi-Shelled Structures of CoO Dodecahedron with Unique Crystal Orientation for Enhanced Photocatalytic CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2238-2241	16.4	205
4 ⁰⁹	General synthesis of multi-shelled mixed metal oxide hollow spheres with superior lithium storage properties. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9041-4	16.4	204
4 ⁰⁸	General Synthesis of Homogeneous Hollow Core-Shell Ferrite Microspheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2792-2797	3.8	203
4 ⁰⁷	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13492-13498	16.4	202
4 ⁰⁶	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4595		199
4 ⁰⁵	Design of highly stable and selective core/yolk-shell nanocatalysts: A review. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 324-341	21.8	196
4 ⁰⁴	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, 7935-44	16.4	195
4 ⁰³	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2019 , 31, e1900281	24	191
4 ⁰²	Multi-shelled Hollow Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5512-5516	16.4	188

401	Soft template synthesis of yolk/silica shell particles. <i>Advanced Materials</i> , 2010 , 22, 1516-20	24	186
400	In Situ Self-Template Synthesis of Fe-N-Doped Double-Shelled Hollow Carbon Microspheres for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2018 , 12, 208-216	16.7	180
399	Multilayered Nanocrystalline SnO ₂ Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14067-14074	3.8	179
398	Cheap and scalable synthesis of Fe ₂ O ₃ multi-shelled hollow spheres as high-performance anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2013 , 49, 8695-7	5.8	178
397	A templated method to Bi ₂ WO ₆ hollow microspheres and their conversion to double-shell Bi ₂ O ₃ /Bi ₂ WO ₆ hollow microspheres with improved photocatalytic performance. <i>Inorganic Chemistry</i> , 2012 , 51, 6245-50	5.1	172
396	Metal-organic framework-derived CoSe ₂ /(NiCo)Se ₂ 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	13	171
395	Rational design of yolk-shell nanostructures for photocatalysis. <i>Chemical Society Reviews</i> , 2019 , 48, 1874-1897	5.9	171
394	Facile Synthesis of Multi-shelled ZnS-CdS Cages with Enhanced Photoelectrochemical Performance for Solar Energy Conversion. <i>Chem</i> , 2018 , 4, 162-173	16.2	170
393	Metal oxide hollow nanostructures: Fabrication and Li storage performance. <i>Journal of Power Sources</i> , 2013 , 238, 376-387	8.9	163
392	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	8.9	160
391	Serial ionic exchange for the synthesis of multishelled copper sulfide hollow spheres. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 949-52	16.4	158
390	Multi-shelled hollow micro-/nanostructures: promising platforms for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 414-430	7.8	157
389	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018 , 11, 205-259	19.4	157
388	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <i>Chemical Society Reviews</i> , 2018 , 47, 8173-8202	58.5	157
387	Integrating large specific surface area and high conductivity in hydrogenated NiCo ₂ O ₄ double-shell hollow spheres to improve supercapacitors. <i>NPG Asia Materials</i> , 2015 , 7, e165-e165	10.3	156
386	Formation of Triple-Shelled Molybdenum-Polydopamine Hollow Spheres and Their Conversion into MoO ₃ /Carbon Composite Hollow Spheres for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14668-14672	16.4	152
385	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
384	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	6.7	145

383	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	13.6	145
382	Cobalt(II,III) oxide hollow structures: fabrication, properties and applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23310		142
381	Template-Assisted Formation of Rattle-type V ₂ O ₅ Hollow Microspheres with Enhanced Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2013 , 23, 5669-5674	15.6	140
380	Constructing SrTiO ₃ -TiO ₂ Heterogeneous Hollow Multi-shelled Structures for Enhanced Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1422-1426	16.4	139
379	Multi ball-in-ball hybrid metal oxides. <i>Advanced Materials</i> , 2011 , 23, 1720-3	24	135
378	Synthesis and self-assembly of complex hollow materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7511		133
377	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	17.1	132
376	MOF-derived hierarchical double-shelled NiO/ZnO hollow spheres for high-performance supercapacitors. <i>Dalton Transactions</i> , 2016 , 45, 13311-6	4.3	131
375	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	23.2	128
374	Yolk-shell, hollow, and single-crystalline ZnCo ₂ O ₄ powders: preparation using a simple one-pot process and application in lithium-ion batteries. <i>ChemSusChem</i> , 2013 , 6, 2111-6	8.3	128
373	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15475		127
372	Shell-by-shell synthesis of multi-shelled mesoporous silica nanospheres for optical imaging and drug delivery. <i>Biomaterials</i> , 2011 , 32, 556-64	15.6	125
371	Hollow carbon spheres with a controllable shell structure. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4413		125
370	Hollow Metal-Organic-Framework Micro/Nanostructures and their Derivatives: Emerging Multifunctional Materials. <i>Advanced Materials</i> , 2019 , 31, e1803291	24	123
369	Synthesis of CuS@CoS Double-Shelled Nanoboxes with Enhanced Sodium Storage Properties. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7739-7743	16.4	120
368	Porous double-shell CdS@C ₃ N ₄ octahedron derived by in situ supramolecular self-assembly for enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 33-40	21.8	120
367	Magnetic yolk-shell mesoporous silica microspheres with supported Au nanoparticles as recyclable high-performance nanocatalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4586-4594	13	118
366	Synthesis of Spheres with Complex Structures Using Hollow Latex Cages as Templates. <i>Advanced Functional Materials</i> , 2005 , 15, 1523-1528	15.6	118

365	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	16.4	117
364	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18609-17	9.5	116
363	Double mesoporous silica shelled spherical/ellipsoidal nanostructures: Synthesis and hydrophilic/hydrophobic anticancer drug delivery. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5290		116
362	Mesoporous single-crystal CoSn(OH) ₆ hollow structures with multilevel interiors. <i>Scientific Reports</i> , 2013 , 3, 1391	4.9	115
361	Multishelled Metal Oxide Hollow Spheres: Easy Synthesis and Formation Mechanism. <i>Chemistry - A European Journal</i> , 2016 , 22, 8864-71	4.8	115
360	Design and Preparation of MnO ₂ /CeO ₂ -MnO ₂ Double-Shelled Binary Oxide Hollow Spheres and Their Application in CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8670-7	9.5	114
359	Synthesis for yolk-shell-structured metal sulfide powders with excellent electrochemical performances for lithium-ion batteries. <i>Small</i> , 2014 , 10, 474-8	11	113
358	Hollow Multishelled Structures for Promising Applications: Understanding the Structure-Performance Correlation. <i>Accounts of Chemical Research</i> , 2019 , 52, 2169-2178	24.3	110
357	Nanofibers Comprising Yolk-Shell Sn@void@SnO/SnO ₂ and Hollow SnO/SnO ₂ and SnO ₂ Nanospheres via the Kirkendall Diffusion Effect and Their Electrochemical Properties. <i>Small</i> , 2015 , 11, 4673-81	11	110
356	Sequential Templating Approach: A Groundbreaking Strategy to Create Hollow Multishelled Structures. <i>Advanced Materials</i> , 2019 , 31, e1802874	24	110
355	Double-walled Au nanocage/SiO ₂ nanorattles: integrating SERS imaging, drug delivery and photothermal therapy. <i>Small</i> , 2015 , 11, 985-93	11	108
354	Engineering of multi-shelled SnO ₂ hollow microspheres for highly stable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17673-17677	13	108
353	Multi-Shell Porous TiO ₂ Hollow Nanoparticles for Enhanced Light Harvesting in Dye-sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 7619-7626	15.6	108
352	Formation of Septuple-Shelled (Co Mn) ₂ (Co Mn) ₂ O Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , 2017 , 29, 1700550	24	108
351	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	15.6	105
350	Self-Templating Approaches to Hollow Nanostructures. <i>Advanced Materials</i> , 2019 , 31, e1802349	24	105
349	Hollow-in-hollow carbon spheres with hollow foam-like cores for lithium-sulfur batteries. <i>Nano Research</i> , 2015 , 8, 2663-2675	10	104
348	Multi-shelled hollow carbon nanospheres for lithium-sulfur batteries with superior performances. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16199-16207	13	104

347	Multi-shelled titania hollow spheres fabricated by a hard template strategy: enhanced photocatalytic activity. <i>Chemical Communications</i> , 2010 , 46, 4312-4	5.8	104
346	An aqueous emulsion route to synthesize mesoporous carbon vesicles and their nanocomposites. <i>Advanced Materials</i> , 2010 , 22, 833-7	24	103
345	Formation of NiCo V O Yolk-Double Shell Spheres with Enhanced Lithium Storage Properties. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2899-2903	16.4	101
344	MOF-derived hollow double-shelled NiO nanospheres for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018 , 734, 1-8	5.7	101
343	Hollow Multi-Shelled Structural TiO with Multiple Spatial Confinement for Long-Life Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9078-9082	16.4	100
342	Multi-shell hollow structured Sb ₂ S ₃ for sodium-ion batteries with enhanced energy density. <i>Nano Energy</i> , 2019 , 60, 591-599	17.1	100
341	Hierarchical nanoscale multi-shell Au/CeO ₂ hollow spheres. <i>Chemical Science</i> , 2014 , 5, 4221-4226	9.4	100
340	Template-free synthesis of amorphous double-shelled zinc-cobalt citrate hollow microspheres and their transformation to crystalline ZnCo ₂ O ₄ microspheres. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5508-17	9.5	99
339	One-step accurate synthesis of shell controllable CoFe ₂ O ₄ hollow microspheres as high-performance electrode materials in supercapacitor. <i>Nano Research</i> , 2016 , 9, 2026-2033	10	99
338	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018 , 402, 281-295	8.9	99
337	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	6.7	98
336	Encapsulating Pd nanoparticles in double-shelled graphene@carbon hollow spheres for excellent chemical catalytic property. <i>Scientific Reports</i> , 2014 , 4, 4053	4.9	97
335	The Application of Hollow Structured Anodes for Sodium-Ion Batteries: From Simple to Complex Systems. <i>Advanced Materials</i> , 2019 , 31, e1800492	24	96
334	Multishelled Ni Co O Hollow Microspheres Derived from Bimetal-Organic Frameworks as Anode Materials for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2017 , 13, 1604270	11	95
333	Hollow Si/SiO _x nanosphere/nitrogen-doped carbon superstructure with a double shell and void for high-rate and long-life lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8039-8046	13	95
332	Facile synthesis of nanorod-assembled multi-shelled Co ₃ O ₄ hollow microspheres for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2014 , 272, 107-112	8.9	94
331	Accurate construction of a hierarchical nickel-cobalt oxide multishell yolk-shell structure with large and ultrafast lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14996-15001	13	94
330	Alternating Silica/Polymer Multilayer Hybrid Microspheres Templates for Double-shelled Polymer and Inorganic Hollow Microstructures. <i>Chemistry of Materials</i> , 2010 , 22, 1309-1317	9.6	93

329	Synergetic Effect of Yolk-Shell Structure and Uniform Mixing of SnS-MoS ₂ Nanocrystals for Improved Na-Ion Storage Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24694-702	9.5	92
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325	Self-templated synthesis of uniform nanoporous CuCoO double-shelled hollow microspheres for high-performance asymmetric supercapacitors. <i>Chemical Communications</i> , 2017 , 53, 1052-1055	5.8	91
324	Zinc oxide core-shell hollow microspheres with multi-shelled architecture for gas sensor applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19331		91
323	Hollow ZnSnO Cubes with Controllable Shells Enabling Highly Efficient Chemical Sensing Detection of Formaldehyde Vapors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14525-14533	9.5	89
322	Engineering onion-like nanoporous CuCo ₂ O ₄ hollow spheres derived from bimetal-organic frameworks for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10497-10506	13	89
321	MOF-derived yolk-shell CdS microcubes with enhanced visible-light photocatalytic activity and stability for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8680-8689	13	88
320	Triple-shelled Mn ₂ O ₃ hollow nanocubes: force-induced synthesis and excellent performance as the anode in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14189	13	87
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318	Hierachically Structured Hollow Silica Spheres for High Efficiency Immobilization of Enzymes. <i>Advanced Functional Materials</i> , 2013 , 23, 2162-2167	15.6	87
317	NiCo ₂ O ₄ hollow microspheres with tunable numbers and thickness of shell for supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 309, 426-434	14.7	85
316	Polypyrrole-Coated Zinc Ferrite Hollow Spheres with Improved Cycling Stability for Lithium-Ion Batteries. <i>Small</i> , 2016 , 12, 3732-7	11	85
315	Hollow Multishelled Heterostructured Anatase/TiO ₂ (B) with Superior Rate Capability and Cycling Performance. <i>Advanced Materials</i> , 2019 , 31, e1805754	24	85
314	Construction of hierarchical nickel cobalt selenide complex hollow spheres for pseudocapacitors with enhanced performance. <i>Electrochimica Acta</i> , 2018 , 281, 109-116	6.7	85
313	Facile synthesis and application of multi-shelled SnO ₂ hollow spheres in lithium ion battery. <i>RSC Advances</i> , 2016 , 6, 58069-58076	3.7	84
312	Lattice Distortion in Hollow Multi-Shelled Structures for Efficient Visible-Light CO Reduction with a SnS/SnO Junction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 721-724	16.4	84

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310	Subunits controlled synthesis of Fe_2O_3 multi-shelled core-shell microspheres and their effects on lithium/sodium ion battery performances. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10092-10099	13	82
309	Fe_3O_4 doped double-shelled hollow carbon spheres with hierarchical pore network for durable high-performance supercapacitor. <i>Carbon</i> , 2016 , 99, 514-522	10.4	82
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302	A multi-shelled CoP nanosphere modified separator for highly efficient Li-S batteries. <i>Nanoscale</i> , 2018 , 10, 13694-13701	7.7	79
301	Structural Engineering of Multishelled Hollow Carbon Nanostructures for High-Performance Na-Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800855	21.8	78
300	Rational design of multi-shelled $\text{CoO}/\text{Co}_9\text{S}_8$ hollow microspheres for high-performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18448-18456	13	78
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298	Heterogeneous NiS/NiO multi-shelled hollow microspheres with enhanced electrochemical performances for hybrid-type asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9153-9160	13	76
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295	Noble metal-free metal-organic framework-derived onion slice-type hollow cobalt sulfide nanostructures: Enhanced activity of CdS for improving photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 230-238	21.8	75
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293	Multishell Hollow Metal/Nitrogen/Carbon Dodecahedrons with Precisely Controlled Architectures and Synergistically Enhanced Catalytic Properties. <i>ACS Nano</i> , 2019 , 13, 7800-7810	16.7	74
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287	Triple-shelled ZnO/ZnFe ₂ O ₄ heterojunctional hollow microspheres derived from Prussian Blue analogue as high-performance acetone sensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 374-382	8.5	72
286	Hierarchical porous metal ferrite ball-in-ball hollow spheres: General synthesis, formation mechanism, and high performance as anode materials for Li-ion batteries. <i>Nano Research</i> , 2014 , 7, 1116-1127	11.27	72
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278	Evolution of form in metal-organic frameworks. <i>Nature Communications</i> , 2017 , 8, 14070	17.4	69
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275	Hollow Multi-Shelled Structure with Metal-Organic-Framework-Derived Coatings for Enhanced Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5266-5271	16.4	67
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267	Preparation of Magnetic Hybrid Copolymer/Cobalt Hierarchical Hollow Spheres by Localized Ostwald Ripening. <i>Chemistry of Materials</i> , 2007 , 19, 6485-6491	9.6	62
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260	Rational synthesis of metal-organic framework composites, hollow structures and their derived porous mixed metal oxide hollow structures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 183-192	13	59
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252	Synthesis of double-shelled SnO ₂ nano-polyhedra and their improved gas sensing properties. <i>Nanoscale</i> , 2015 , 7, 3276-84	7.7	56
251	MOF assistance synthesis of nanoporous double-shelled CuCoO hollow spheres for hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 83-91	9.3	55
250	Hollow Multishelled Structure of Heterogeneous Co ₃ O ₄ @FeO ₂ Nanocomposite for CO Catalytic Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1806588	15.6	55
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247	One-pot solvothermal synthesis of multi-shelled Fe ₂ O ₃ hollow spheres with enhanced visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 440-443	5.7	54
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239	Novel Au/Cu ₂ O multi-shelled porous heterostructures for enhanced efficiency of photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14415-14421	13	50
238	High-Performance Energy Storage Device Based on Triple-Shelled Cobalt Gallium Oxide Hollow Spheres and Graphene Wrapped Copper Iron Disulfide Porous Spheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7908-7917	8.3	50
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236	Coordination Polymer-Derived Multishelled Mixed Ni-Co Oxide Microspheres for Robust and Selective Detection of Xylene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15314-15321	9.5	50
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223	Alkaline electrochemical water oxidation with multi-shelled cobalt manganese oxide hollow spheres. <i>Chemical Communications</i> , 2017 , 53, 8641-8644	5.8	46
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220	Fabrication of ZnO nanorod-assembled multishelled hollow spheres and enhanced performance in gas sensor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14277		45
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217	Formation of multi-shelled carbon nanoparticles by arc discharge in liquid benzene. <i>Materials Chemistry and Physics</i> , 2004 , 88, 235-238	4.4	44
216	Hollow shell-in-shell Ni ₃ S ₄ @Co ₉ S ₈ tubes derived from core-shell Ni-MOF-74@Co-MOF-74 as efficient faradaic electrodes. <i>CrystEngComm</i> , 2018 , 20, 889-895	3.3	43
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199	Easy hydrothermal synthesis of multi-shelled La ₂ O ₃ hollow spheres for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1232-1237	2.1	39
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197	One-pot controllable synthesis of CoFe ₂ O ₄ solid, hollow and multi-shell hollow nanospheres as superior anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21994-22003	13	38
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190	Forming bubble-encapsulated double-shelled hollow spheres towards fast kinetics and superior high rate performance for aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10589-10600	13	36
189	Degradation of rhodamine B by a novel Fe ₃ O ₄ /SiO ₂ double-mesoporous-shelled hollow spheres through photo-Fenton process. <i>Materials Chemistry and Physics</i> , 2019 , 227, 302-312	4.4	36
188	Facile synthesis of Co ₃ O ₄ spheres and their unexpected high specific discharge capacity for Lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 416, 338-343	6.7	35
187	Fabrication of multi-shelled hollow Mg-modified CaCO ₃ microspheres and their improved CO ₂ adsorption performance. <i>Chemical Engineering Journal</i> , 2017 , 321, 401-411	14.7	35
186	A Hollow-Shell Structured V ₂ O ₅ Electrode-Based Symmetric Full Li-Ion Battery with Highest Capacity. <i>Advanced Energy Materials</i> , 2019 , 9, 1900909	21.8	35

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183	Controlled synthesis of double-shelled CeO ₂ hollow spheres and enzyme-free electrochemical bio-sensing properties for uric acid. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17079		34
182	Tuning interior nanogaps of double-shelled Au/Ag nanoboxes for surface-enhanced Raman scattering. <i>Scientific Reports</i> , 2015 , 5, 8382	4.9	33
181	Au Nanodisk-Core Multishell Nanoparticles: Synthetic Method for Controlling Number of Shells and Intershell Distance. <i>Chemistry of Materials</i> , 2014 , 26, 3618-3623	9.6	33
180	Tunable Co ₃ O ₄ hollow structures (from yolk-shell to multi-shell) and their Li storage properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12757-12761	13	32
179	Hierarchical triple-shelled porous hollow zinc oxide spheres wrapped in graphene oxide as efficient sensor material for simultaneous electrochemical determination of synthetic antioxidants in vegetable oil. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 707-716	8.5	32
178	Unique double-shelled hollow silica microspheres: template-guided self-assembly, tunable pore size, high thermal stability, and their application in removal of neutral red. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19124		32
177	Metal-organic frameworks-derived porous ZnO/Ni _{0.9} Zn _{0.1} O double-shelled nanocages as gas sensing material for selective detection of xylene. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 649-656	8.5	31
176	MOF-derived formation of nickel cobalt sulfides with multi-shell hollow structure towards electrocatalytic hydrogen evolution reaction in alkaline media. <i>Composites Part B: Engineering</i> , 2019 , 177, 107252	10	31
175	L-Histidine-assisted template-free hydrothermal synthesis of Fe ₂ O ₃ porous multi-shelled hollow spheres with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12361-12367	13	31
174	Synthesis of multi-shelled ZnO hollow microspheres and their improved photocatalytic activity. <i>Nanoscale Research Letters</i> , 2014 , 9, 468	5	31
173	Synthesis and Performance of CuO with Complex Hollow Structure as Anode Material for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A814	3.9	31
172	Microwave-Assisted Synthesis of NiCoO Double-Shelled Hollow Spheres for High-Performance Sodium Ion Batteries. <i>Nano-Micro Letters</i> , 2018 , 10, 13	19.5	31
171	Rapid sensitive sensing platform based on yolk-shell hybrid hollow sphere for detection of ethanol. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 479-487	8.5	31
170	Synthesis of amorphous ZnSnO ₃ double-shell hollow microcubes as advanced anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2015 , 182, 327-333	6.7	30
169	Template-assisted synthesis of multi-shelled carbon hollow spheres with an ultralarge pore volume as anode materials in Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 3657-3664	3.7	30
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166	Double -shelled hollow ZnO/carbon nanocubes as an efficient solid-phase microextraction coating for the extraction of broad-spectrum pollutants. <i>Nanoscale</i> , 2019 , 11, 2805-2811	7.7	29
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164	Resonance-Enhanced Absorption in Hollow Nanoshell Spheres with Omnidirectional Detection and High Responsivity and Speed. <i>Advanced Materials</i> , 2018 , 30, e1801972	24	29
163	Fabrication of SiO ₂ /TiO ₂ double-shelled hollow nanospheres with controllable size via sol-gel reaction and sonication-mediated etching. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15420-6	9.5	29
162	Heterogeneous Double-Shelled Constructed FeO Yolk-Shell Magnetite Nanoboxes with Superior Lithium Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24662-24670	9.5	29
161	Hollow Ball-in-Ball Co _x Fe _{3-x} O ₄ Nanostructures: High-Performance Anode Materials for Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11063-8	9.5	29
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158	Porous Double-shelled SnO ₂ @C Hollow Spheres as High-Performance Anode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 195, 208-215	6.7	28
157	Surfactant-free sacrificial template synthesis of submicrometer-sized YVO ₄ :Eu ³⁺ hierarchical hollow spheres with tunable textual parameters and luminescent properties. <i>Dalton Transactions</i> , 2013 , 42, 3986-93	4.3	28
156	Enhanced gas sensing by amorphous double-shell Fe ₂ O ₃ hollow nanospheres functionalized with PdO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 322-329	8.5	28
155	Highly Porous Double-Shelled Hollow Hematite Nanoparticles for Gas Sensing. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2347-2357	5.6	27
154	Nanostructuring of nanoporous iron carbide spheres via thermal degradation of triple-shelled Prussian blue hollow spheres for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 10341-10351	3.7	27
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150	Scalable and controllable synthesis of multi-shell hollow carbon microspheres for high-performance supercapacitors. <i>Carbon</i> , 2019 , 154, 330-341	10.4	26

149	Construction of multi-shelled Bi ₂ WO ₆ hollow microspheres with enhanced visible light photo-catalytic performance. <i>Materials Research Bulletin</i> , 2018 , 99, 331-335	5.1	26
148	Hollow-in-Hollow Carbon Spheres for Lithium-ion Batteries with Superior Capacity and Cyclic Performance. <i>Electrochimica Acta</i> , 2015 , 186, 436-441	6.7	25
147	Facile fabrication of LiMn ₂ O ₄ microspheres from multi-shell MnO ₂ for high-performance lithium-ion batteries. <i>Materials Letters</i> , 2014 , 135, 75-78	3.3	25
146	Uniform double-shelled silica hollow spheres: acid/base selective-etching synthesis and their drug delivery application. <i>RSC Advances</i> , 2013 , 3, 5649	3.7	25
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133	Double-Shelled TiO Hollow Spheres Assembled with TiO Nanosheets. <i>Chemistry - A European Journal</i> , 2017 , 23, 4336-4343	4.8	22
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130	Facile fabrication of multishelled SnO ₂ hollow microspheres for gas sensing application. <i>Materials Letters</i> , 2016 , 164, 56-59	3.3	22
129	Facile synthesis, magnetic and optical properties of double-shelled Co ₃ O ₄ hollow microspheres. <i>Advanced Powder Technology</i> , 2014 , 25, 1780-1785	4.6	22
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116	Encapsulation pyrolysis synchronous deposition for hollow carbon sphere with tunable textural properties. <i>Carbon</i> , 2019 , 143, 467-474	10.4	20
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108	Fabrication of Ellipsoidal Silica Yolk-Shell Magnetic Structures with Extremely Stable Au Nanoparticles as Highly Reactive and Recoverable Catalysts. <i>Langmuir</i> , 2017 , 33, 2698-2708	4	18
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51	From harmful Microcystis blooms to multi-functional core-double-shell microsphere bio-hydrochar materials. <i>Scientific Reports</i> , 2017 , 7, 15477	4.9	11
50	Synthesis of multiple-shelled organosilica hollow nanospheres via a dual-template method by using compressed CO ₂ . <i>Microporous and Mesoporous Materials</i> , 2017 , 247, 66-74	5.3	10
49	Synthesis of highly defective hollow double-shelled Co ₃ O ₄ microspheres as sulfur host for high-performance lithium-sulfur batteries. <i>Materials Letters</i> , 2019 , 255, 126581	3.3	10
48	Rational design of double-shelled Fe-, N-, and S-tridoped hollow mesoporous carbon spheres as high-performance catalysts for organic reactions. <i>Chemical Communications</i> , 2018 , 54, 2974-2977	5.8	10
47	The effect of copper species in copper-ceria catalysts: structure evolution and enhanced performance in CO oxidation. <i>RSC Advances</i> , 2016 , 6, 46966-46971	3.7	10
46	Fabrication of monodisperse nitrogen-doped carbon double-shell hollow nanoparticles for supercapacitors. <i>RSC Advances</i> , 2017 , 7, 20694-20699	3.7	9
45	Robust, double-shelled ZnGaO hollow spheres for photocatalytic reduction of CO to methane. <i>Dalton Transactions</i> , 2017 , 46, 10564-10568	4.3	9
44	Hollow copper/ceria microspheres with single and multiple shells for preferential CO oxidation. <i>CrystEngComm</i> , 2019 , 21, 3619-3626	3.3	9
43	Controlled synthesis and lithium storage properties of Mn ₂ O ₃ triple-shelled hollow spheres and porous spheres. <i>Materials Letters</i> , 2015 , 158, 416-419	3.3	9
42	Ionic liquid assisted hydrothermal synthesis of MoS ₂ double-shell polyhedral cages with enhanced catalytic hydrogenation activities. <i>RSC Advances</i> , 2017 , 7, 23523-23529	3.7	8

41	Template-free synthesis of hierarchical MoO ₂ multi-shell architectures with improved lithium storage capability. <i>Materials Research Bulletin</i> , 2017 , 91, 85-90	5.1	8
40	Coordination polymer derived general synthesis of multi-shelled hollow metal oxides for lithium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 17478-17484	7.7	8
39	Design of SnO ₂ @Air@TiO ₂ hierarchical urchin-like double-hollow nanospheres for high performance dye-sensitized solar cells. <i>Solar Energy</i> , 2019 , 189, 412-420	6.8	8
38	Fabrication of Oxygen-Doped Double-Shelled GaN Hollow Spheres toward Efficient Photoreduction of CO ₂ . <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 583-588	3.1	8
37	Strategy for Multifunctional Hollow Shelled Triple Oxide MnCuAl Nanocomposite Synthesis via Microwave-Assisted Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1009-1021	8.3	8
36	Controlling optical properties of metallic multi-shell nanoparticles through suppressed surface plasmon resonance. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 376-382	9.3	7
35	The Transformation of Hybrid Silica Nanoparticles from Solid to Hollow or Yolk-Shell Nanostructures. <i>Chemistry - A European Journal</i> , 2017 , 23, 8066-8072	4.8	7
34	Fabrication of Yolk/Shell Partially Inverse Spinel Cobalt Ferrite/Mesoporous Silica Nanostructured Catalysts for Organic Pollutants Degradation by Peroxymonosulfate Activation. <i>Catalysis Letters</i> , 2017 , 147, 1732-1743	2.8	7
33	Precursor-Based Synthesis of Porous Colloidal Particles towards Highly Efficient Catalysts. <i>Chemistry - A European Journal</i> , 2018 , 24, 10280-10290	4.8	7
32	Heterogeneous triple-shelled TiO ₂ @NiCo ₂ O ₄ @Co ₃ O ₄ nanocages as improved performance anodes for lithium-ion batteries. <i>Materials Letters</i> , 2018 , 232, 228-231	3.3	7
31	Dual-shelled Cu ₂ O@Cu ₉ S ₅ @MnO ₂ hollow spheres as advanced cathode material for energy storage. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 977-983	5.7	7
30	Multilayered TiO ₂ @SnO ₂ hollow nanostructures: facile synthesis and enhanced photocatalytic performance. <i>RSC Advances</i> , 2014 , 4, 59503-59507	3.7	7
29	Facile synthesis of multi-shelled hollow CuCeO ₂ microspheres with promoted catalytic performance for preferential oxidation of CO. <i>Materials Chemistry and Physics</i> , 2019 , 226, 158-168	4.4	7
28	The investigation of Ag decorated double-wall hollow TiO ₂ spheres as photocatalyst. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4160	3.1	7
27	Synthesis of double-shell hollow magnetic Au-loaded ellipsoids as highly active and recoverable nanoreactors. <i>New Journal of Chemistry</i> , 2017 , 41, 4448-4457	3.6	6
26	Activation of the Solid Silica Layer of Aerosol-Based C/SiO ₂ Particles for Preparation of Various Functional Multishelled Hollow Microspheres. <i>Langmuir</i> , 2015 , 31, 5164-73	4	6
25	Stabilizing the nanostructure of SnO ₂ anode by constructing heterogeneous yolk@shell hollow composite. <i>Applied Surface Science</i> , 2019 , 493, 838-846	6.7	6
24	One-pot synthesis of double-shelled ZnV ₂ O ₄ hollow nanostructures via a template-free route. <i>Materials Letters</i> , 2013 , 92, 231-234	3.3	6

23	Synthesis and Optical Responses of Ag@Au/Ag@Au Double Shells. <i>Chinese Physics Letters</i> , 2015 , 32, 024205	1.8	5
22	Facile fabrication of double-walled polymeric hollow spheres with independent temperature and pH dual-responsiveness for synergetic drug delivery. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	5
21	Nano-resolues-Enabled Elegant Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2018 , 24, 14598-14607	4.8	5
20	Controllable synthesis of multi-shelled NiCoO hollow spheres catalytically for the thermal decomposition of ammonium perchlorate.. <i>RSC Advances</i> , 2019 , 9, 23888-23893	3.7	5
19	Polypyrrole single and double-shelled nanospheres templated by pyrroleHg(II) complex: Synthesis, characterization, formation mechanism and electrochemical performance. <i>Synthetic Metals</i> , 2014 , 197, 126-133	3.6	5
18	Multishelled NiO Hollow Spheres Decorated by Graphene Nanosheets as Anodes for Lithium-Ion Batteries with Improved Reversible Capacity and Cycling Stability. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-6	3.2	5
17	Carbon@carbon double hollow spheres as efficient cathode host for high rate LiS battery. <i>Materials Chemistry and Physics</i> , 2019 , 225, 309-315	4.4	5
16	Formaldehyde Controlling the Synthesis of Multishelled SiO/Fe O Hollow Porous Spheres. <i>Langmuir</i> , 2018 , 34, 8223-8229	4	5
15	Co _{0.5} Ni _{0.5} MoO ₄ Double-Shelled Hollow Spheres with Enhanced Electrochemical Performance for Supercapacitors and Lithium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1801160	3.5	4
14	Synthetic architecture of integrated nanocatalysts with controlled spatial distribution of metal nanoparticles. <i>Chemical Engineering Journal</i> , 2019 , 355, 320-334	14.7	4
13	Preparation of P(MBA-co-MAA)/Zr(OH) ₄ /P(EGDMA-co-MAA)/TiO ₂ Tetra-layer Hybrid Microspheres and the Corresponding ZrO ₂ /TiO ₂ Double-shelled Hollow Microspheres. <i>Chinese Journal of Chemistry</i> , 2014 , 32, 163-171	4.9	4
12	Large scale combustion synthesis of glass-Fe ₂ O ₃ double shell composite hollow microspheres with tunable magnetic property. <i>RSC Advances</i> , 2016 , 6, 47089-47095	3.7	4
11	Multi-shelled LiMn _{1.95} Co _{0.05} O ₄ cages with a tunable Mn oxidation state for ultra-high lithium storage. <i>New Journal of Chemistry</i> , 2018 , 42, 3953-3960	3.6	3
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4	Hybrid Supercapacitors from Framework Materials. <i>Chem</i> , 2016 , 1, 21-23	16.2	1
3	Studies on pH-Controlled Transition of Myoglobin Capsules from Hollow to Multilayered Structures. <i>Adsorption Science and Technology</i> , 2015 , 33, 759-768	3.6	1
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