

Zm Wang

List of Publications by Year in Descending Order

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

472
papers

48,621
citations

113
h-index

204
g-index

476
ext. papers

53,936
ext. citations

10.8
avg, IF

8.4
L-index

#	Paper	IF	Citations
472	Design of multishell microsphere of transition metal oxides/carbon composites for lithium ion battery. <i>Chemical Engineering Journal</i> , 2020 , 380, 122489	14.7	42
471	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
470	Synthesis of Single-Component Metal Oxides with Controllable Multi-Shelled Structure and their Morphology-Related Applications. <i>Chemical Record</i> , 2020 , 20, 102-119	6.6	43
469	Enhanced-absorption template method for preparation of double-shell NiO hollow nanospheres with controllable particle size for nanothermite application. <i>Chemical Engineering Journal</i> , 2020 , 379, 122330	14.7	16
468	General Synthesis of Mixed Semiconducting Metal Oxide Hollow Spheres with Tunable Compositions for Low-Temperature Chemiresistive Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35060-35067	9.5	23
467	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
466	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
465	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
464	Carbon nanotube-stabilized CoS dual-shell hollow spheres for high-performance K-ion storage. <i>Chemical Communications</i> , 2019 , 55, 1406-1409	5.8	24
463	Designing oxygen bonding between reduced graphene oxide and multishelled Mn ₃ O ₄ hollow spheres for enhanced performance of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6686-6694	13.4	71
462	Topological self-template directed synthesis of multi-shelled intermetallic NiGa hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 2019 , 10, 614-619	9.4	20
461	Multishelled Hollow Structures of Yttrium Oxide for the Highly Selective and Ultrasensitive Detection of Methanol. <i>Small</i> , 2019 , 15, e1804688	11	12
460	Multi-layered zeolitic imidazolate framework based self-templated synthesis of nitrogen-doped hollow porous carbon dodecahedrons as robust substrates for supercapacitors. <i>New Journal of Chemistry</i> , 2019 , 43, 2171-2178	3.6	12
459	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
458	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2019 , 31, e1900281	24	191
457	Hollow Multishelled Structures for Promising Applications: Understanding the Structure-Performance Correlation. <i>Accounts of Chemical Research</i> , 2019 , 52, 2169-2178	24.3	110
456	Construction of complex NiS multi-shelled hollow structures with enhanced sodium storage. <i>Energy Storage Materials</i> , 2019 , 23, 17-24	19.4	49

455	Unique structured microspheres with multishells comprising graphitic carbon-coated Fe ₃ O ₄ hollow nanopowders as anode materials for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15766-15773	13	40
454	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
453	Double-shelled hollow rods assembled from nitrogen/sulfur-codoped carbon coated indium oxide nanoparticles as excellent photocatalysts. <i>Nature Communications</i> , 2019 , 10, 2270	17.4	71
452	Design of three-dimensional hierarchical TiO ₂ /SrTiO ₃ heterostructures towards selective CO ₂ photoreduction. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1667-1674	6.8	20
451	Hollow copper ^{II} microsphere microspheres with single and multiple shells for preferential CO oxidation. <i>CrystEngComm</i> , 2019 , 21, 3619-3626	3.3	9
450	"One-for-All" strategy to design oxygen-deficient triple-shelled MnO and hollow FeO microcubes for high energy density asymmetric supercapacitors. <i>Dalton Transactions</i> , 2019 , 48, 8623-8632	4.3	16
449	The building of ZnO double-shells hollow spheres for CdS quantum dots sensitized solar cell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 479, 012050	0.4	
448	A facile sequential ion exchange strategy to synthesize CoSe/FeSe double-shelled hollow nanocuboids for the highly active and stable oxygen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 10738-10745	7.5	51
447	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	6.7	41
446	Controlled synthesis of MOF-derived quadruple-shelled CoS ₂ hollow dodecahedrons as enhanced electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2019 , 312, 54-61	6.7	47
445	Highly Porous Double-Shelled Hollow Hematite Nanoparticles for Gas Sensing. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2347-2357	5.6	27
444	Porous hollow carbon nanobubbles@ZnCdS multi-shelled dodecahedral cages with enhanced visible-light harvesting for ultrasensitive photoelectrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 125-132	11.8	17
443	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
442	Designing an asymmetric device based on graphene wrapped yolk-shell NiGa ₂ S ₄ hollow microspheres and graphene wrapped FeS ₂ @FeSe ₂ core-shell cratered spheres with outstanding energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10282-10292	13	72
441	Perovskite-type ZnSn(OH) ₆ hollow cubes with controllable shells for enhanced formaldehyde sensing performance at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 298-306	8.5	18
440	Multi-shelled ZnO decorated with nitrogen and phosphorus co-doped carbon quantum dots: synthesis and enhanced photodegradation activity of methylene blue in aqueous solutions.. <i>RSC Advances</i> , 2019 , 9, 7362-7374	3.7	24
439	A self-templating method for metal-organic frameworks to construct multi-shelled bimetallic phosphide hollow microspheres as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8602-8608	13	60
438	Coordination competition-driven synthesis of triple-shell hollow Fe ₂ O ₃ microspheres for lithium ion batteries. <i>Electrochimica Acta</i> , 2019 , 306, 151-158	6.7	14

437	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
436	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
435	A novel core-shell polyhedron Co ₃ O ₄ /MnCo ₂ O _{4.5} as electrode materials for supercapacitors. <i>Ceramics International</i> , 2019 , 45, 12558-12562	5.1	22
434	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
433	The controlled synthesis of complex hollow nanostructures and prospective applications. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180677 ²⁻⁴		19
432	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
431	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
430	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
429	Lanthanide-Doped Photoluminescence Hollow Structures: Recent Advances and Applications. <i>Small</i> , 2019 , 15, e1804510	11	19
428	Multishelled Transition Metal-Based Microspheres: Synthesis and Applications for Batteries and Supercapacitors. <i>Small</i> , 2019 , 15, e1804737	11	38
427	Hollow Functional Materials Derived from Metal-Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. <i>Advanced Materials</i> , 2019 , 31, e1804903	24	248
426	Ni-Co-MoS _x ball-in-ball hollow nanospheres as Pt-free bifunctional catalysts for high-performance solar cells and hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2019 , 368, 202-211	14.7	42
425	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
424	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
423	Self-templated formation of CuCo ₂ O ₄ triple-shelled hollow microspheres for all-solid-state asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 694-699	5.7	22
422	CoMoS _x @Ni-CoMoS _x double-shelled cage-in-cage hollow polyhedron as enhanced Pt-free catalytic material for high-efficiency dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2019 , 417, 21-28	8.9	23
421	Co ₃ Sn ₂ /SnO ₂ heterostructures building double shell micro-cubes wrapped in three-dimensional graphene matrix as promising anode materials for lithium-ion and sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 355, 986-998	14.7	52
420	An Acoustic Hyperlens with Negative Direction Based on Double Split Hollow Sphere. <i>Journal of Theoretical and Computational Acoustics</i> , 2019 , 27, 1850025	0.8	

4 ¹⁹	The Application of Hollow Structured Anodes for Sodium-Ion Batteries: From Simple to Complex Systems. <i>Advanced Materials</i> , 2019 , 31, e1800492	24	96
4 ¹⁸	Synthetic architecture of integrated nanocatalysts with controlled spatial distribution of metal nanoparticles. <i>Chemical Engineering Journal</i> , 2019 , 355, 320-334	14.7	4
4 ¹⁷	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
4 ¹⁶	Scalable and controllable synthesis of multi-shell hollow carbon microspheres for high-performance supercapacitors. <i>Carbon</i> , 2019 , 154, 330-341	10.4	26
4 ¹⁵	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
4 ¹⁴	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
4 ¹³	Porous multishelled NiO hollow microspheres encapsulated within three-dimensional graphene as flexible free-standing electrodes for high-performance supercapacitors. <i>Nanoscale</i> , 2019 , 11, 16071-16079	7.7	19
4 ¹²	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
4 ¹¹	Rationalized Fabrication of Structure-Tailored Multishelled Hollow Silica Spheres. <i>Chemistry of Materials</i> , 2019 , 31, 7470-7477	9.6	17
4 ¹⁰	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
4 ⁰⁹	Hollow multi-shelled structures for energy conversion and storage applications. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2239-2259	6.8	20
4 ⁰⁸	Effect of Cation Substitution on the Gas-Sensing Performances of Ternary Spinel MCoO (M = Mn, Ni, and Zn) Multishelled Hollow Twin Spheres. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28023-28032	9.5	41
4 ⁰⁷	Hollow multi-shell structured SnO ₂ with enhanced performance for ultraviolet photodetectors. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1968-1972	6.8	16
4 ⁰⁶	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
4 ⁰⁵	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
4 ⁰⁴	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
4 ⁰³	A multi-shelled V ₂ O ₃ /C composite with an overall coupled carbon scaffold enabling ultrafast and stable lithium/sodium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19234-19240	13	20
4 ⁰²	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

401	Fabrication of Zn ₂ SnO ₄ microspheres with controllable shell numbers for highly efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2019 , 181, 424-429	6.8	20
400	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
399	Diaminomaleonitrile functionalized double-shelled hollow MIL-101 (Cr) for selective removal of uranium from simulated seawater. <i>Chemical Engineering Journal</i> , 2019 , 368, 951-958	14.7	52
398	Self-Templating Approaches to Hollow Nanostructures. <i>Advanced Materials</i> , 2019 , 31, e1802349	24	105
397	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
396	Triple-, Double-, and Single-Shelled Hollow Spheres of Sulfonated Microporous Organic Network as Drug Delivery Materials. <i>Chemistry of Materials</i> , 2019 , 31, 300-304	9.6	24
395	Shell-in-shell monodispersed triamine-functionalized SiO ₂ hollow microspheres with micro-mesostructured shells for highly efficient removal of heavy metals from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102832	6.8	37
394	Modulation synthesis of multi-shelled cobalt-iron oxides as efficient catalysts for peroxymonosulfate-mediated organics degradation. <i>Chemical Engineering Journal</i> , 2019 , 359, 1537-1549	14.7	40
393	Triple-Shelled Manganese-Cobalt Oxide Hollow Dodecahedra with Highly Enhanced Performance for Rechargeable Alkaline Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 996-1001	16.4	76
392	Cabbage-shaped zinc-cobalt oxide (ZnCoO) sensing materials: Effects of zinc ion substitution and enhanced formaldehyde sensing properties. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 520-527	9.3	17
391	Encapsulation pyrolysis synchronous deposition for hollow carbon sphere with tunable textural properties. <i>Carbon</i> , 2019 , 143, 467-474	10.4	20
390	A yolk-double-shelled heterostructure-based sensor for acetone detecting application. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 490-496	9.3	20
389	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
388	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
387	NiCo ₂ S ₄ multi-shelled hollow polyhedrons as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 299, 289-297	6.7	49
386	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
385	Hollow Multishelled Heterostructured Anatase/TiO ₂ (B) with Superior Rate Capability and Cycling Performance. <i>Advanced Materials</i> , 2019 , 31, e1805754	24	85
384	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

383	Mesoporous Nb ₂ O ₅ 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	5.7	14
382	Hollow Metal-Organic-Framework Micro/Nanostructures and their Derivatives: Emerging Multifunctional Materials. <i>Advanced Materials</i> , 2019 , 31, e1803291	24	123
381	Rational design of yolk-shell nanostructures for photocatalysis. <i>Chemical Society Reviews</i> , 2019 , 48, 1874-1897	45.9	171
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	Rationally Designed Double-Shell Dodecahedral Microreactors with Efficient Photoelectron Transfer: N-Doped-C-Encapsulated Ultrafine In ₂ O ₃ Nanoparticles. <i>Chemistry - A European Journal</i> , 2019 , 25, 3053-3060	4.8	19
378	Feasibility of using hollow double walled Mn ₂ O ₃ nanocubes for hybrid Na-air battery. <i>Chemical Engineering Journal</i> , 2019 , 360, 415-422	14.7	24
377	Sequential Templating Approach: A Groundbreaking Strategy to Create Hollow Multishelled Structures. <i>Advanced Materials</i> , 2019 , 31, e1802874	24	110
376	Fully integrated hierarchical double-shelled CoS@CNT nanostructures with unprecedented performance for Li-S batteries. <i>Nanoscale Horizons</i> , 2019 , 4, 182-189	10.8	46
375	Multi-shelled ZnCo ₂ O ₄ yolk-shell spheres for high-performance acetone gas sensor. <i>Applied Surface Science</i> , 2018 , 443, 114-121	6.7	49
374	Nickel Cobalt Sulfide Double-Shelled Hollow Nanospheres as Superior Bifunctional Electrocatalysts for Photovoltaics and Alkaline Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9379-9389	9.5	64
373	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
372	Precursor-Based Synthesis of Porous Colloidal Particles towards Highly Efficient Catalysts. <i>Chemistry - A European Journal</i> , 2018 , 24, 10280-10290	4.8	7
371	Sn ²⁺ -Doped Double-Shelled TiO ₂ Hollow Nanospheres with Minimal Pt Content for Significantly Enhanced Solar H ₂ Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7128-7137	8.3	13
370	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
369	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
368	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. <i>Chem</i> , 2018 , 4, 972-996	16.2	410
367	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
366	Formation of multi-shelled nickel-based sulfide hollow spheres for rechargeable alkaline batteries. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 535-540	6.8	56

365	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
364	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
363	Control of Amphiphile Self-Assembly via Bioinspired Metal Ion Coordination. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1409-1414	16.4	50
362	ZIF-67-derived hollow nanocages with layered double oxides shell as high-Efficiency catalysts for CO oxidation. <i>Applied Surface Science</i> , 2018 , 437, 161-168	6.7	29
361	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
360	Fabrication and characterization of double-shelled CeO ₂ -La ₂ O ₃ /Au/Fe ₃ O ₄ hollow architecture as a recyclable and highly thermal stability nanocatalyst. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4201	3.1	1
359	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
358	Using a Multi-Shelled Hollow Metal-Organic Framework as a Host to Switch the Guest-to-Host and Guest-to-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2110-2114	16.4	64
357	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	4.5	13
356	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
355	Delicate Control of Multishelled Zn-Mn-O Hollow Microspheres as a High-Performance Anode for Lithium-Ion Batteries. <i>Langmuir</i> , 2018 , 34, 1242-1248	4	15
354	Self-templating synthesis of double-wall shelled vanadium oxide hollow microspheres for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6792-6799	13	26
353	Facile Synthesis of Nitrogen-Doped Double-Shelled Hollow Mesoporous Carbon Nanospheres as High-Performance Anode Materials for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5999-6007	8.3	44
352	A Review: Enhanced Anodes of Li/Na-Ion Batteries Based on Yolk-Shell Structured Nanomaterials. <i>Nano-Micro Letters</i> , 2018 , 10, 40	19.5	62
351	Enhanced photocatalytic performance and degradation pathway of Rhodamine B over hierarchical double-shelled zinc nickel oxide hollow sphere heterojunction. <i>Applied Surface Science</i> , 2018 , 430, 549-560	6.7	72
350	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
349	Cisplatin and doxorubicin high-loaded nanodrug based on biocompatible thioether- and ethane-bridged hollow mesoporous organosilica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 214-221	9.3	17
348	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

347	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
346	Double-shell Fe ₂ O ₃ hollow box-like structure for enhanced photo-Fenton degradation of malachite green dye. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 112, 209-215	3.9	39
345	Soft-templated formation of double-shelled ZnO hollow microspheres for acetone gas sensing at low concentration/near room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 751-759	8.5	69
344	Investigation of the Enhanced Lithium Battery Storage in a Polyoxometalate Model: From Solid Spheres to Hollow Balls. <i>Small Methods</i> , 2018 , 2, 1800154	12.8	14
343	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
342	The Design and Synthesis of Hollow Micro-/Nanostructures: Present and Future Trends. <i>Advanced Materials</i> , 2018 , 30, e1800939	24	218
341	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <i>Chemical Society Reviews</i> , 2018 , 47, 8173-8202	58.5	157
340	Resonance-Enhanced Absorption in Hollow Nanoshell Spheres with Omnidirectional Detection and High Responsivity and Speed. <i>Advanced Materials</i> , 2018 , 30, e1801972	24	29
339	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
338	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
337	Al-Stabilized Double-Shelled Hollow CaO-Based Microspheres with Superior CO ₂ Adsorption Performance. <i>Energy & Fuels</i> , 2018 , 32, 9692-9700	4.1	14
336	Scalable fabrication of ZnxCd _{1-x} S double-shell hollow nanospheres for highly efficient hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 309-316	21.8	64
335	Double-shelled hollow LaNiO ₃ nanocage as nanoreactors with remarkable catalytic performance: Illustrating the special morphology and performance relationship. <i>Molecular Catalysis</i> , 2018 , 455, 57-67	3.3	17
334	A multi-shelled CoP nanosphere modified separator for highly efficient Li-S batteries. <i>Nanoscale</i> , 2018 , 10, 13694-13701	7.7	79
333	Nano-resolves-Enabled Elegant Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2018 , 24, 14598-14607	14.8	4607
332	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
331	Self-template synthesis of double shelled ZnS-NiS _{1.97} hollow spheres for electrochemical energy storage. <i>Applied Surface Science</i> , 2018 , 435, 993-1001	6.7	59
330	Biomimetic hierarchical walnut kernel-like and erythrocyte-like mesoporous silica nanomaterials: controllable synthesis and versatile applications. <i>Microporous and Mesoporous Materials</i> , 2018 , 261, 144-149	5.3	15

329	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
328	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
327	Double-shelled hollow Na ₂ FePO ₄ F/C spheres cathode for high-performance sodium-ion batteries. <i>Journal of Materials Science</i> , 2018 , 53, 2735-2747	4.3	17
326	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
325	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
324	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
323	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
322	The investigation of Ag decorated double-wall hollow TiO ₂ spheres as photocatalyst. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4160	3.1	7
321	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
320	Controllable synthesis of mesoporous multi-shelled ZnO microspheres as efficient photocatalysts for NO oxidation. <i>Applied Surface Science</i> , 2018 , 435, 468-475	6.7	39
319	Mild Strategy to Fabricate Mn _x Co _{3-x} O ₄ Multi-Shelled Hollow Spheres with Superior Catalytic Property in CO Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7775-7785	1.3	2
318	Construction of Multishelled Binary Metal Oxides via Coabsorption of Positive and Negative Ions as a Superior Cathode for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17114-17119	16.4	65
317	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
316	Scalable Room-Temperature Synthesis of Multi-shelled Na ₃ (VOPO ₄) ₂ F Microsphere Cathodes. <i>Joule</i> , 2018 , 2, 2348-2363	27.8	80
315	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
314	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
313	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
312	Facile synthesis of hollow MnO microcubes as superior anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 756, 93-102	5.7	14

311	Mesoporous hollow ZnCo ₂ S ₄ core-shell nanospheres for high performance supercapacitors. <i>Ceramics International</i> , 2018 , 44, 17464-17472	5.1	37
310	Formaldehyde Controlling the Synthesis of Multishelled SiO ₂ /Fe ₃ O ₄ Hollow Porous Spheres. <i>Langmuir</i> , 2018 , 34, 8223-8229	4	5
309	Construction of hybrid multi-shell hollow structured CeO ₂ /MnO _x materials for selective catalytic reduction of NO with NH ₃ . <i>RSC Advances</i> , 2017 , 7, 5989-5999	3.7	17
308	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
307	One-pot Syntheses of Spinel AB ₂ O ₄ (A = Ni or Co, B = Mn or Fe) Microspheres with Different Hollow Interiors for Supercapacitors Application. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 67-72	4.9	14
306	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1604563	24	529
305	Self-Templated Formation of Hollow Structures for Electrochemical Energy Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 293-301	24.3	336
304	Coordination Polymers Derived General Synthesis of Multishelled Mixed Metal-Oxide Particles for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1605902	24	296
303	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
302	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
301	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017 , 29, 1602914	24	424
300	Double-Shell TiO ₂ Hollow Spheres Assembled with TiO ₂ Nanosheets. <i>Chemistry - A European Journal</i> , 2017 , 23, 4336-4343	4.8	22
299	C-doped ZnO ball-in-ball hollow microspheres for efficient photocatalytic and photoelectrochemical applications. <i>Journal of Hazardous Materials</i> , 2017 , 331, 235-245	12.8	54
298	Synthesis of Zn ₂ SnO ₄ hollow spheres by a template route for high-performance acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 493-506	8.5	62
297	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
296	Fabrication of monodisperse nitrogen-doped carbon double-shell hollow nanoparticles for supercapacitors. <i>RSC Advances</i> , 2017 , 7, 20694-20699	3.7	9
295	Synthesis of NiO-TiO ₂ hybrids/mSiO ₂ yolk-shell architectures embedded with ultrasmall gold nanoparticles for enhanced reactivity. <i>Applied Surface Science</i> , 2017 , 412, 616-626	6.7	18
294	Double-shell CuS nanocages as advanced supercapacitor electrode materials. <i>Journal of Power Sources</i> , 2017 , 355, 31-35	8.9	69

293	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
292	Self-templated formation of ZnFe ₂ O ₄ double-shelled hollow microspheres for photocatalytic degradation of gaseous o-dichlorobenzene. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8909-8915	13	73
291	Hierarchical TiO ₂ /SnO ₂ Hollow Spheres Coated with Graphitized Carbon for High-Performance Electrochemical Li-Ion Storage. <i>Small</i> , 2017 , 13, 1604283	11	48
290	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
289	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
288	Effects of calcination temperature for rate capability of triple-shelled ZnFeO hollow microspheres for lithium ion battery anodes. <i>Scientific Reports</i> , 2017 , 7, 46378	4.9	23
287	Multi-shelled Dendritic Mesoporous Organosilica Hollow Spheres: Roles of Composition and Architecture in Cancer Immunotherapy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8446-8450	16.4	91
286	Cobalt Phosphide Double-Shelled Nanocages: Broadband Light-Harvesting Nanostructures for Efficient Photothermal Therapy and Self-Powered Photoelectrochemical Biosensing. <i>Small</i> , 2017 , 13, 1700798	11	51
285	Tunable construction of multi-shell hollow SiO ₂ microspheres with hierarchically porous structure as high-performance anodes for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 323, 252-259	14.7	50
284	Nanosheet-assembled NiS hollow structures with double shells and controlled shapes for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 323, 415-424	14.7	58
283	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
282	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
281	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
280	Advanced yolk-shell nanoparticles as nanoreactors for energy conversion. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 970-990	11.3	36
279	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
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277	Antipulverization Electrode Based on Low-Carbon Triple-Shelled Superstructures for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1701494	24	82
276	Highly active CeO ₂ hollow-shell spheres with Al doping. <i>Science China Materials</i> , 2017 , 60, 646-653	7.1	16

275	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
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272	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
271	Novel amorphous nickel sulfide@CoS double-shelled polyhedral nanocages for supercapacitor electrode materials with superior electrochemical properties. <i>Electrochimica Acta</i> , 2017 , 237, 94-101	6.7	91
270	Multi-shelled Hollow Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5512-5516	16.4	188
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268	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
267	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
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265	Template-free synthesis of hierarchical MoO ₃ multi-shell architectures with improved lithium storage capability. <i>Materials Research Bulletin</i> , 2017 , 91, 85-90	5.1	8
264	Multi-shelled hollow micro-/nanostructures: promising platforms for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 414-430	7.8	157
263	Composite Yttrium-Carbonaceous Spheres Templated Multi-Shell YVO ₄ Hollow Spheres with Superior Upconversion Photoluminescence. <i>Advanced Materials</i> , 2017 , 29, 1604377	24	39
262	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
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260	Multi-shelled ceria hollow spheres with a tunable shell number and thickness and their superior catalytic activity. <i>Dalton Transactions</i> , 2017 , 46, 1634-1644	4.3	21
259	Highly controlled synthesis of multi-shelled NiO hollow microspheres for enhanced lithium storage properties. <i>Materials Research Bulletin</i> , 2017 , 87, 224-229	5.1	69
258	Multi-shelled copper oxide hollow spheres and their gas sensing properties. <i>Materials Research Bulletin</i> , 2017 , 87, 214-218	5.1	13

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256	Evolution of form in metal-organic frameworks. <i>Nature Communications</i> , 2017 , 8, 14070	17.4	69
255	Robust, double-shelled ZnGaO hollow spheres for photocatalytic reduction of CO to methane. <i>Dalton Transactions</i> , 2017 , 46, 10564-10568	4.3	9
254	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
253	Morella-rubra-like metal-organic-framework-derived multilayered Co ₃ O ₄ /NiO/C hybrids as high-performance anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24269-24274	13	28
252	Tuning Shell Numbers of Transition Metal Oxide Hollow Microspheres toward Durable and Superior Lithium Storage. <i>ACS Nano</i> , 2017 , 11, 11521-11530	16.7	72
251	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
250	Fabrication of CeO-MO (M = Cu, Co, Ni) composite yolk-shell nanospheres with enhanced catalytic properties for CO oxidation. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2425-2437	3	11
249	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
248	Double-shell CeO ₂ @TiO ₂ hollow spheres composites with enhanced light harvesting and electron transfer in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 864-871	5.7	12
247	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
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245	Multi-shelled FeCo ₂ O ₄ hollow porous microspheres/CCFs magnetic hybrid and its dual-functional catalytic performance. <i>Chemical Engineering Journal</i> , 2017 , 330, 792-803	14.7	22
244	Hierarchical multi-shelled nanoporous mixed copper cobalt phosphide hollow microspheres as a novel advanced electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18429-18433	13	60
243	Rational design of multi-shelled CoO/Co ₉ S ₈ hollow microspheres for high-performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18448-18456	13	78
242	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
241	Synthesis of double-shelled copper chalcogenide hollow nanocages as efficient counter electrodes for quantum dot-sensitized solar cells. <i>Materials Today Energy</i> , 2017 , 5, 331-337	7	12
240	Controlled Architecture of Hybrid Polymer Nanocapsules with Tunable Morphologies by Manipulating Surface-Initiated ARGET ATRP from Hydrothermally Modified Polydopamine. <i>Chemistry of Materials</i> , 2017 , 29, 10212-10219	9.6	27

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238	A Synthetic Protocol for Preparation of Binary Multi-shelled Hollow Spheres and Their Enhanced Oxidation Application. <i>Chemistry of Materials</i> , 2017 , 29, 10104-10112	9.6	38
237	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
236	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
235	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
234	Alkaline electrochemical water oxidation with multi-shelled cobalt manganese oxide hollow spheres. <i>Chemical Communications</i> , 2017 , 53, 8641-8644	5.8	46
233	Heterostructured bismuth vanadate multi-shell hollow spheres with high visible-light-driven photocatalytic activity. <i>Materials Research Bulletin</i> , 2017 , 86, 44-50	5.1	40
232	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
231	In-situ formation of supported Au nanoparticles in hierarchical yolk-shell CeO/mSiO structures as highly reactive and sinter-resistant catalysts. <i>Journal of Colloid and Interface Science</i> , 2017 , 488, 196-206	9.3	27
230	Yolk-shell carbon microspheres with controlled yolk and void volumes and shell thickness and their application as a cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 988-995	13	39
229	Formation of Onion-Like NiCo S Particles via Sequential Ion-Exchange for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1605051	24	453
228	In-situ construction of Au nanoparticles confined in double-shelled TiO ₂ /mSiO ₂ hollow architecture for excellent catalytic activity and enhanced thermal stability. <i>Applied Surface Science</i> , 2017 , 392, 36-45	6.7	18
227	In situ doping of Pt active sites via Sn in double-shelled TiO ₂ hollow nanospheres with enhanced photocatalytic H ₂ production efficiency. <i>New Journal of Chemistry</i> , 2017 , 41, 11089-11096	3.6	22
226	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
225	Kinetically Controlled Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9352-9361	3.9	18
224	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
223	Hybrid Supercapacitors from Framework Materials. <i>CheM</i> , 2016 , 1, 21-23	16.2	1
222	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	304

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220	Designing multi-shelled metal oxides: towards high energy-density lithium-ion batteries. <i>Science China Materials</i> , 2016 , 59, 521-522	7.1	12
219	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
218	Cu ₂ O hollow structures: microstructural evolution and photocatalytic properties. <i>RSC Advances</i> , 2016 , 6, 103700-103706	3.7	16
217	Designed synthesis of MO (M = Zn, Fe, Sn, Ni, Mn, Co, Ce, Mg, Ag), Pt, and Au nanoparticles supported on hierarchical CuO hollow structures. <i>Nanoscale</i> , 2016 , 8, 19684-19695	7.7	19
216	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
215	Multi-shelled NiO hollow spheres: Easy hydrothermal synthesis and lithium storage performances. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 8-14	5.7	61
214	Self-assembly in the synthesis of shelled ZnO hollow spheres and their UV sensors performance. <i>Materials Letters</i> , 2016 , 182, 10-14	3.3	11
213	Multishelled Nickel-Cobalt Oxide Hollow Microspheres with Optimized Compositions and Shell Porosity for High-Performance Pseudocapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17276-17283	9.5	74
212	MOF-derived hierarchical double-shelled NiO/ZnO hollow spheres for high-performance supercapacitors. <i>Dalton Transactions</i> , 2016 , 45, 13311-6	4.3	131
211	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
210	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
209	Tunable construction of multi-shelled hollow carbonate nanospheres and their potential applications. <i>Nanoscale</i> , 2016 , 8, 8687-95	7.7	24
208	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
207	Fabrication of cubic Zn ₂ SnO ₄ /SnO ₂ complex hollow structures and their sunlight-driven photocatalytic activity. <i>Nanoscale</i> , 2016 , 8, 12858-62	7.7	51
206	Aerosol construction of multi-shelled LiMn ₂ O ₄ hollow microspheres as a cathode in lithium ion batteries. <i>New Journal of Chemistry</i> , 2016 , 40, 1839-1844	3.6	18
205	Highly sensitive and selective detection of ppb-level NO ₂ using multi-shelled WO ₃ yolk-shell spheres. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 561-569	8.5	68
204	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

203	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
202	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
201	Novel template free synthetic strategy to single crystalline multishelled hollow nanospheroids of titania with boosted application potential. <i>RSC Advances</i> , 2016 , 6, 24210-24217	3.7	3
200	Facile fabrication of multishelled SnO ₂ hollow microspheres for gas sensing application. <i>Materials Letters</i> , 2016 , 164, 56-59	3.3	22
199	Multi-shelled LiMn ₂ O ₄ hollow microspheres as superior cathode materials for lithium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 365-369	6.8	75
198	Fe ₃ O 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
197	Precursor-mediated synthesis of double-shelled V ₂ O ₅ hollow nanospheres as cathode material for lithium-ion batteries. <i>CrystEngComm</i> , 2016 , 18, 4068-4073	3.3	19
196	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
195	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
194	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
193	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>Chem</i> , 2016 , 1, 102-113	16.2	406
192	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
191	Multishelled Metal Oxide Hollow Spheres: Easy Synthesis and Formation Mechanism. <i>Chemistry - A European Journal</i> , 2016 , 22, 8864-71	4.8	115
190	Metal Sulfide Hollow Nanostructures for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2016 , 6, 1501333	21.8	563
189	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
188	Polypyrrole-Coated Zinc Ferrite Hollow Spheres with Improved Cycling Stability for Lithium-Ion Batteries. <i>Small</i> , 2016 , 12, 3732-7	11	85
187	A Facile Process for the Preparation of Three-Dimensional Hollow Zn(OH) ₂ Nanoflowers at Room Temperature. <i>Chemistry - A European Journal</i> , 2016 , 22, 11143-7	4.8	3
186	Multi-shelled MgCo ₂ O ₄ hollow microspheres as anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12263-12272	13	47

185	Contribution of multiple reflections to light utilization efficiency of submicron hollow TiO ₂ photocatalyst. <i>Science China Materials</i> , 2016 , 59, 1017-1026	7.1	22
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183	Dual-templating synthesis of multi-shelled mesoporous silica nanoparticles as catalyst and drug carrier. <i>Microporous and Mesoporous Materials</i> , 2016 , 228, 318-328	5.3	30
182	Self-assembly synthesis of graphene oxide double-shell hollow-spheres decorated with Mn ₃ O ₄ for electrochemical supercapacitors. <i>Carbon</i> , 2016 , 107, 100-108	10.4	29
181	Large scale combustion synthesis of glass- γ -Fe ₂ O ₃ double shell composite hollow microspheres with tunable magnetic property. <i>RSC Advances</i> , 2016 , 6, 47089-47095	3.7	4
180	Multi-shelled γ -Fe ₂ O ₃ microspheres for high-rate supercapacitors. <i>Science China Materials</i> , 2016 , 59, 247-253	7.1	22
179	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
178	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. <i>Chemical Reviews</i> , 2016 , 116, 10983-1060	68.1	996
177	Fabrication and photocatalytic properties of SnO ₂ double-shelled and triple-shelled hollow spheres. <i>Solid State Sciences</i> , 2016 , 56, 63-67	3.4	14
176	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
175	Preparation and electrochemical properties of double-shell LiNi _{0.5} Mn _{1.5} O ₄ hollow microspheres as cathode materials for Li-ion batteries. <i>RSC Advances</i> , 2016 , 6, 45369-45375	3.7	13
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172	A systematic study on the synthesis of γ -Fe ₂ O ₃ multi-shelled hollow spheres. <i>RSC Advances</i> , 2015 , 5, 10304-10309	3.7	39
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170	Tuning interior nanogaps of double-shelled Au/Ag nanoboxes for surface-enhanced Raman scattering. <i>Scientific Reports</i> , 2015 , 5, 8382	4.9	33
169	The template-assisted synthesis of polypyrrole hollow microspheres with a double-shelled structure. <i>Chemical Communications</i> , 2015 , 51, 5009-12	5.8	16
168	Synthesis and Optical Responses of Ag@Au/Ag@Au Double Shells. <i>Chinese Physics Letters</i> , 2015 , 32, 024205	1.8	5

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164	Hollow-in-hollow carbon spheres with hollow foam-like cores for lithium-sulfur batteries. <i>Nano Research</i> , 2015 , 8, 2663-2675	10	104
163	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015 , 44, 6749-73	58.5	540
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161	Fabrication of hollow spheres of metal oxide using fructose-derived carbonaceous spheres as sacrificial templates. <i>Comptes Rendus Chimie</i> , 2015 , 18, 379-384	2.7	13
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157	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
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145	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
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142	Preparation of Double-Shelled C/SiO ₂ Hollow Spheres with Enhanced Adsorption Capacity. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 641-648	3.9	13
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140	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
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123	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
122	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
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106	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
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104	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
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91	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
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85	Synthesis of the double-shell anatase-rutile TiO ₂ hollow spheres with enhanced photocatalytic activity. <i>Nanoscale</i> , 2013 , 5, 12150-5	7.7	87
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82	Fabrication of Hollow and Yolk-shell Structured Fe ₂ O ₃ Nanoparticles with Versatile Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 1303-1308	3.9	12
81	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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78	Controlled synthesis of multi-shelled transition metal oxide hollow structures through one-pot solution route. <i>Chinese Chemical Letters</i> , 2013 , 24, 1-6	8.1	18

77	Controllable and enhanced HCHO sensing performances of different-shelled ZnO hollow microspheres. <i>Sensors and Actuators B: Chemical</i> , 2013 , 183, 467-473	8.5	50
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70	Surface-enhanced Raman spectroscopy of double-shell hollow nanoparticles: electromagnetic and chemical enhancements. <i>Langmuir</i> , 2013 , 29, 6253-61	4	23
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65	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
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