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Recent advances in micro-/nano-structured hollow spheres for energy applications: From simple to complex systems

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#	Paper	IF	Citations
1034	Hollow core-shell nanostructure supercapacitor electrodes: gap matters. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9085	35.4	169
1033	Functional properties of amine-passivated ZnO nanostructures and dye-sensitized solar cell characteristics. <b>2012</b> , 213, 70-77		43
1032	Effect of calcination temperature on the microstructure, crystallinity and photocatalytic activity of TiO <sub>2</sub> hollow spheres. <b>2012</b> , 542, 32-36		40
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950	Uniform V <sub>2</sub> O <sub>5</sub> nanosheet-assembled hollow microflowers with excellent lithium storage properties. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1476	35.4	239
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889	Micro-sized silicon-carbon composites composed of carbon-coated sub-10 nm Si primary particles as high-performance anode materials for lithium-ion batteries. <b>2014</b> , 2, 1257-1262	149
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887	Unravelling the correlation between the aspect ratio of nanotubular structures and their electrochemical performance to achieve high-rate and long-life lithium-ion batteries. <b>2014</b> , 53, 13488-92	152
886	Aqueous Li-ion cells with superior cycling performance using multi-channeled polyaniline/Fe <sub>2</sub> O <sub>3</sub> nanotube anodes. <b>2014</b> , 2, 20177-20181	10
885	Enhanced extrinsic absorption promotes the visible light photocatalytic activity of wide band-gap (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical structure. <b>2014</b> , 4, 56307-56312	40
884	Lithium ion electrochemical insertion in vanadium pentoxide/cucurbit[6]uril intercalates. <b>2014</b> , 1, 495	4
883	A general and rapid synthesis of metal sulphides hollow spheres that have properties enhanced by salt-assisted aerosol decomposition: a case of ZnS and other multicomponent solid solutions. <b>2014</b> , 2, 8564-8568	8
882	Mn <sub>3</sub> O <sub>4</sub> hollow spheres for lithium-ion batteries with high rate and capacity. <b>2014</b> , 2, 4627-4632	136
881	Facile one-step preparation of hierarchical Fe <sub>2</sub> O <sub>3</sub> nanostructures with enhanced performance in energy and environmentally related applications. <b>2014</b> , 16, 9727-9734	10
880	Towards easy reversible dehydrogenation of LiBH <sub>4</sub> by catalyzing hierarchic nanostructured CoB. <b>2014</b> , 10, 235-244	40
879	A mesoporous "shell-in-shell" structured nanocatalyst with large surface area, enhanced synergy, and improved catalytic performance for Suzuki-Miyaura coupling reaction. <b>2014</b> , 50, 12356-9	16
878	Morphology control and fabrication of multi-shelled NiO spheres by tuning the pH value via a hydrothermal process. <b>2014</b> , 16, 11096-11101	18
877	Large scale, flexible and three-dimensional quasi-ordered aluminum nanospikes for thin film photovoltaics with omnidirectional light trapping and optimized electrical design. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3611-3616	35.4 41
876	3D binder-free Cu <sub>2</sub> O@Cu nanoneedle arrays for high-performance asymmetric supercapacitors. <b>2014</b> , 2, 18229-18235	152
875	Highly stable and reversible lithium storage in SnO <sub>2</sub> nanowires surface coated with a uniform hollow shell by atomic layer deposition. <b>2014</b> , 14, 4852-8	242
874	Recent advances in hierarchical macroporous composite structures for photoelectric conversion. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3887-3901	35.4 34

873	Rationally designed hierarchical MnO <sub>2</sub> -shell/ZnO-nanowire/carbon-fabric for high-performance supercapacitor electrodes. <b>2014</b> , 272, 654-660		36
872	Bowl-like carbon sheet for high-rate electrochemical capacitor application. <b>2014</b> , 272, 1-7		21
871	Multi-shelled hollow carbon nanospheres for lithium-sulfur batteries with superior performances. <b>2014</b> , 2, 16199-16207		104
870	Hollow manganese phosphonate microspheres with hierarchical porosity for efficient adsorption and separation. <i>Nanoscale</i> , <b>2014</b> , 6, 6627-36	7.7	51
869	Solution deposition of thin carbon coatings on LiFePO <sub>4</sub> <b>2014</b> , 6, 21550-7		18
868	NiSb alloy hollow nanospheres as anode materials for rechargeable lithium ion batteries. <b>2014</b> , 50, 8201-3		41
867	Hollow micro/nanostructured materials prepared by ion exchange synthesis and their potential applications. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1883-1904	3.6	22
866	One pot synthesis of hollow Cu-doped Ru octahedral nanocages via an in situ generated metastable Cu nanoparticle template. <i>Nanoscale</i> , <b>2014</b> , 6, 12397-402	7.7	21
865	Architecture engineering toward highly active palladium integrated titanium dioxide yolk-double-shell nanoreactor for catalytic applications. <i>Nanoscale</i> , <b>2014</b> , 6, 11887-97	7.7	31
864	Controllable synthesis of yolk-shell-structured metal oxides with seven to ten components for finding materials with superior lithium storage properties. <i>Nanoscale</i> , <b>2014</b> , 6, 12421-5	7.7	18
863	Combination of a SnO <sub>2</sub> hybrid anode and a tubular mesoporous carbon cathode in a high energy density non-aqueous lithium ion capacitor: preparation and characterisation. <b>2014</b> , 2, 6549		85
862	High-capacity full lithium-ion cells based on nanoarchitected ternary manganese-nickel-cobalt carbonate and its lithiated derivative. <b>2014</b> , 2, 14947		47
861	Encapsulation of nanoscale metal oxides into an ultra-thin Ni matrix for superior Li-ion batteries: a versatile strategy. <i>Nanoscale</i> , <b>2014</b> , 6, 12990-3000	7.7	18
860	Nanoporous hollow transition metal chalcogenide nanosheets synthesized via the anion-exchange reaction of metal hydroxides with chalcogenide ions. <b>2014</b> , 8, 10909-19		183
859	Preparation of multi-shelled conductive polymer hollow microspheres by using Fe <sub>3</sub> O <sub>4</sub> hollow spheres as sacrificial templates. <b>2014</b> , 50, 12493-6		54
858	Study of the lithium/nickel ions exchange in the layered LiNi <sub>0.42</sub> Mn <sub>0.42</sub> Co <sub>0.16</sub> O <sub>2</sub> cathode material for lithium ion batteries: experimental and first-principles calculations. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1068	35.4	151
857	Template-free synthesis of Ni(OH) <sub>2</sub> hollow microspheres with flower-like morphology for high-performance supercapacitors. <b>2014</b> , 60, 612-620		18
856	Using simple spray pyrolysis to prepare yolk-shell-structured ZnO-Mn <sub>3</sub> O <sub>4</sub> systems with the optimum composition for superior electrochemical properties. <b>2014</b> , 20, 3014-8		48

855	General synthesis of multi-shelled mixed metal oxide hollow spheres with superior lithium storage properties. <b>2014</b> , 53, 9041-4		204
854	High-rate lithiation-induced reactivation of mesoporous hollow spheres for long-lived lithium-ion batteries. <b>2014</b> , 5, 4526		497
853	Synthesis of hierarchically porous SnO(2) microspheres and performance evaluation as li-ion battery anode by using different binders. <b>2014</b> , 6, 16556-64		59
852	Control of the shell structural properties and cavity diameter of hollow magnesium fluoride particles. <b>2014</b> , 6, 4418-27		28
851	Facile synthesis of nanorod-assembled multi-shelled Co <sub>3</sub> O <sub>4</sub> hollow microspheres for high-performance supercapacitors. <b>2014</b> , 272, 107-112		94
850	Cu <sub>2</sub> O-templated strategy for synthesis of definable hollow architectures. <b>2014</b> , 50, 7403-15		64
849	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. <b>2014</b> , 50, 2077-88		22
848	Rare-earth doped LaF <sub>3</sub> hollow hexagonal nanoplates: hydrothermal synthesis and photoluminescence properties. <b>2014</b> , 16, 7106-7114		21
847	Li(1.2)Mn(0.6)Ni(0.1)Co(0.1)O <sub>2</sub> microspheres constructed by hierarchically arranged nanoparticles as lithium battery cathode with enhanced electrochemical performance. <i>Nanoscale</i> , <b>2014</b> , 6, 14724-32	7.7	27
846	Mesoporous ZnCo <sub>2</sub> O <sub>4</sub> microspheres composed of ultrathin nanosheets cross-linked with metallic NiSix nanowires on Ni foam as anodes for lithium ion batteries. <b>2014</b> , 10, 245-258		66
845	Visualizing the roles of graphene for excellent lithium storage. <b>2014</b> , 2, 17808-17814		44
844	CdS/mesoporous ZnS core-shell particles for efficient and stable photocatalytic hydrogen evolution under visible light. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1895	35.4	331
843	Hierarchical nanostructured FeS <sub>2</sub> hollow microspheres for lithium-ion batteries. <b>2014</b> , 4, 36597-36602		20
842	A Nanosheets-on-Channel Architecture Constructed from MoS <sub>2</sub> and CMK-3 for High-Capacity and Long-Cycle-Life Lithium Storage. <b>2014</b> , 4, 1400902		166
841	A family of vertically aligned nanowires with smooth, hierarchical and hyperbranched architectures for efficient energy conversion. <b>2014</b> , 9, 15-24		44
840	Micro-/nanostructured Co <sub>3</sub> O <sub>4</sub> anode with enhanced rate capability for lithium-ion batteries. <b>2014</b> , 6, 7236-43		191
839	TiO <sub>2</sub> hollow spheres composed of highly crystalline nanocrystals exhibit superior lithium storage properties. <b>2014</b> , 53, 12590-3		77
838	An unusual temperature gradient crystallization process: facile synthesis of hierarchical ZnO porous hollow spheres with controllable shell numbers. <b>2014</b> , 16, 7933-7941		20

837	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. <b>2014</b> , 126, 13706-13710		28
836	High-surface-area mesoporous TiO <sub>2</sub> microspheres via one-step nanoparticle self-assembly for enhanced lithium-ion storage. <i>Nanoscale</i> , <b>2014</b> , 6, 14926-31	7-7	21
835	Hierarchical porous metal ferrite ball-in-ball hollow spheres: General synthesis, formation mechanism, and high performance as anode materials for Li-ion batteries. <b>2014</b> , 7, 1116-1127		72
834	Do transition metal carbonates have greater lithium storage capability than oxides? A case study of monodisperse CoCO <sub>3</sub> and CoO microspindles. <b>2014</b> , 6, 12346-52		75
833	Facile synthesis of Fe <sub>3</sub> S <sub>4</sub> hollow spheres with high-performance for lithium-ion batteries and water treatment. <b>2014</b> , 2, 19882-19888		32
832	Size-controlled SnO <sub>2</sub> hollow spheres via a template free approach as anodes for lithium ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 10762-71	7-7	45
831	Hollow Metallic Micro/Nanostructures. <b>2014</b> , 119-176		2
830	One-pot assembly of silica@two polymeric shells for synthesis of hollow carbon porous nanospheres: Adsorption of bisphenol A. <b>2014</b> , 120, 108-110		20
829	All-solid-state, origami-type foldable supercapacitor chips with integrated series circuit analogues. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1095	35-4	51
828	Confined nanospace pyrolysis for the fabrication of coaxial Fe <sub>3</sub> O <sub>4</sub> @C hollow particles with a penetrated mesochannel as a superior anode for Li-ion batteries. <b>2014</b> , 20, 139-45		58
827	Hollow mesoporous carbon nitride nanosphere/three-dimensional graphene composite as high efficient electrocatalyst for oxygen reduction reaction. <b>2014</b> , 272, 696-702		48
826	Sodium/Lithium storage behavior of antimony hollow nanospheres for rechargeable batteries. <b>2014</b> , 6, 16189-96		170
825	Fe <sub>3</sub> O <sub>4</sub> -decorated hollow graphene balls prepared by spray pyrolysis process for ultrafast and long cycle-life lithium ion batteries. <b>2014</b> , 79, 58-66		63
824	General Synthesis of Multi-Shelled Mixed Metal Oxide Hollow Spheres with Superior Lithium Storage Properties. <b>2014</b> , 126, 9187-9190		72
823	Pt-based nanoarchitecture and catalyst design for fuel cell applications. <b>2014</b> , 9, 433-456		204
822	Sol-gel synthesis of Co-doped LiMn <sub>2</sub> O <sub>4</sub> with improved high-rate properties for high-temperature lithium batteries. <b>2014</b> , 40, 3527-3531		26
821	A new type of porous graphite foams and their integrated composites with oxide/polymer core/shell nanowires for supercapacitors: structural design, fabrication, and full supercapacitor demonstrations. <b>2014</b> , 14, 1651-8		395
820	Sub-5 nm Pd/Bu Nanoparticle Alloys as Efficient Catalysts for Formic Acid Electrooxidation. <b>2014</b> , 6, 1731-1736		34

819	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. <b>2014</b> , 77, 155-164	132
818	Facile preparation of Sn hollow nanospheres anodes for lithium-ion batteries by galvanic replacement. <b>2014</b> , 128, 408-411	24
817	Size-tunable fabrication of multifunctional Bi <sub>2</sub> O <sub>3</sub> porous nanospheres for photocatalysis, bacteria inactivation and template-synthesis. <i>Nanoscale</i> , <b>2014</b> , 6, 5402-9	7-7 99
816	A large ultrathin anatase TiO <sub>2</sub> nanosheet/reduced graphene oxide composite with enhanced lithium storage capability. <b>2014</b> , 2, 8893	52
815	Hollow nanospheres constructed by CoS <sub>2</sub> nanosheets with a nitrogen-doped-carbon coating for energy-storage and photocatalysis. <b>2014</b> , 7, 2212-20	84
814	A general method for mass and template-free production of hierarchical metal oxide spheres at room-temperature. <b>2014</b> , 4, 24176-24182	5
813	One-step carbonization synthesis of hollow carbon nanococoons with multimodal pores and their enhanced electrochemical performance for supercapacitors. <b>2014</b> , 6, 2192-8	52
812	Visible light catalysis-assisted assembly of Ni(h)-QD hollow nanospheres in situ via hydrogen bubbles. <b>2014</b> , 136, 8261-8	65
811	Improving the Performance of Lithium-Sulfur Battery by Blocking Sulfur Diffusing Paths on the Host Materials. <b>2014</b> , 161, A1231-A1235	14
810	Synthesis of hollow core-shell ZnCo <sub>2</sub> O <sub>4</sub> spheres and their formation mechanism. <b>2014</b> , 40, 1599-1603	11
809	TiO <sub>2</sub> Hollow Spheres Composed of Highly Crystalline Nanocrystals Exhibit Superior Lithium Storage Properties. <b>2014</b> , 126, 12798-12801	41
808	Direct synthesis of hollow polyhedral ceria nano powders via a template-free mixed solvothermal route. <b>2015</b> , 33, 892-897	3
807	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. <b>2015</b> , 2, 1500120	139
806	Mesoporous Silica Gel-Based Mixed Matrix Membranes for Improving Mass Transfer in Forward Osmosis: Effect of Pore Size of Filler. <b>2015</b> , 5, 16808	11
805	Influence of sintering temperature on the structure and high-temperature discharge performance of LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> cathode materials. <b>2015</b> , 30, 894-899	4
804	Three-Dimensional Pseudocapacitive Interface for Enhanced Power Production in a Microbial Fuel Cell. <b>2015</b> , 2, 1307-1313	10
803	Green Template-Free Synthesis of Hierarchical Shuttle-Shaped Mesoporous ZnFe <sub>2</sub> O <sub>4</sub> Microrods with Enhanced Lithium Storage for Advanced Li-Ion Batteries. <b>2015</b> , 21, 13012-9	50
802	Hierarchical Pt/NiO Hollow Microspheres with Enhanced Catalytic Performance. <b>2015</b> , 1, 58-67	69

801	Ultrathin MoS <sub>2</sub> Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <b>2015</b> , 127, 7503-7506	86
800	Hierarchical MoS <sub>2</sub> @Carbon Microspheres as Advanced Anodes for Li-Ion Batteries. <b>2015</b> , 21, 18187-91	47
799	Formation of Yolk-Shelled Ni <sub>3</sub> Co Mixed Oxide Nanoprisms with Enhanced Electrochemical Performance for Hybrid Supercapacitors and Lithium Ion Batteries. <b>2015</b> , 5, 1500981	258
798	Template-free synthesis of Na <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> microspheres as cathode materials for lithium-ion batteries. <b>2015</b> , 17, 4774-4780	15
797	Synthesis of open-mouthed, yolk-shell Au@AgPd nanoparticles with access to interior surfaces for enhanced electrocatalysis. <b>2015</b> , 6, 4350-4357	72
796	A general and simple method to synthesize well-crystallized nanostructured vanadium oxides for high performance Li-ion batteries. <b>2015</b> , 3, 9385-9389	39
795	Durable Pt Electrocatalyst Supported on a 3D Nanoporous Carbon Shows High Performance in a High-Temperature Polymer Electrolyte Fuel Cell. <b>2015</b> , 7, 9800-6	47
794	A comparative study on the quantum-dot-sensitized, dye-sensitized and co-sensitized solar cells based on hollow spheres embedded porous TiO <sub>2</sub> photoanodes. <b>2015</b> , 173, 551-558	18
793	Hollow SnNi nanoparticles coated with ion-conductive polyethylene oxide as anodes for lithium ion batteries with superior cycling stability. <b>2015</b> , 5, 40807-40812	3
792	Magnesium-Doped Li <sub>1.2</sub> [Co <sub>0.13</sub> Ni <sub>0.13</sub> Mn <sub>0.54</sub> ]O <sub>2</sub> for Lithium-Ion Battery Cathode with Enhanced Cycling Stability and Rate Capability. <b>2015</b> , 7, 13014-21	97
791	Pristine hollow microspheres of Mn <sub>2</sub> O <sub>3</sub> as a potential anode for lithium-ion batteries. <b>2015</b> , 17, 5038-5045	29
790	Two-Dimensional Porous Micro/Nano Metal Oxides Templated by Graphene Oxide. <b>2015</b> , 7, 11984-90	41
789	Template-free synthesis of hierarchically porous NaCoPO <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> hollow microspheres and their application as electrocatalysts for glucose. <b>2015</b> , 17, 4540-4546	8
788	Self-supported yolk-shell nanocolloids towards high capacitance and excellent cycling performance. <b>2015</b> , 18, 273-282	48
787	Synthesis and characterization of geometrically tunable nano-size hollow silicate particles and their dip-coating prepared films for thermal management applications. <b>2015</b> , 5, 104408-104416	10
786	A facile method for fabricating room-temperature-film-formable casein-based hollow nanospheres. <b>2015</b> , 484, 329-335	9
785	Simultaneous formation of silica-protected and N-doped TiO <sub>2</sub> hollow spheres using organic/inorganic silica as self-removed templates. <b>2015</b> , 3, 2234-2241	25
784	Enhanced photoelectrochemical performance of the hierarchical micro/nano-structured TiO <sub>2</sub> mesoporous spheres with oxygen vacancies via hydrogenation. <b>2015</b> , 5, 9482-9488	16

783	Atomic-layer-deposition alumina induced carbon on porous Ni(x)Co(1-x)O nanonets for enhanced pseudocapacitive and Li-ion storage performance. <b>2015</b> , 26, 014001		20
782	Unexpected discovery of low-cost maricite NaFePO <sub>4</sub> as a high-performance electrode for Na-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 540-545	35.4	236
781	Synthesis and electrochemical investigation of tin dioxide-based elastic hollow microspheres for lithium storage. <b>2015</b> , 21, 1533-1538		3
780	Dual-Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen-Doped Double-Shelled Hollow Carbon Spheres and Wrapped with Graphene for LiS Batteries. <b>2015</b> , 5, 1402263		402
779	Rutile TiO <sub>2</sub> submicroboxes with superior lithium storage properties. <b>2015</b> , 54, 4001-4		155
778	Green catalyst: magnetic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> hollow microspheres. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 2413-2416	1.1	1.1
777	3D VO <sub>2</sub> nanotextiles assembled from interconnected nanogrooves as cathode materials for high-energy lithium ion batteries. <b>2015</b> , 15, 1388-94		160
776	Fabrication of spinel one-dimensional architectures by single-spinneret electrospinning for energy storage applications. <b>2015</b> , 9, 1945-54		302
775	Hollow Al <sub>2</sub> O <sub>3</sub> spheres prepared by a simple and tunable hydrothermal method. <b>2015</b> , 5, 13385-13391		15
774	Composites of porous Co <sub>3</sub> O <sub>4</sub> grown on Li <sub>2</sub> MnO <sub>3</sub> microspheres as cathode materials for lithium ion batteries. <b>2015</b> , 3, 4840-4845		41
773	Graphene-modified nanostructured vanadium pentoxide hybrids with extraordinary electrochemical performance for Li-ion batteries. <b>2015</b> , 6, 6127		158
772	A systematic study on the synthesis of Fe <sub>2</sub> O <sub>3</sub> multi-shelled hollow spheres. <b>2015</b> , 5, 10304-10309		39
771	Synthesis and electrochemical investigation of hollow hierarchical metal oxide microspheres for high performance lithium-ion batteries. <b>2015</b> , 156, 1-10		27
770	Template engaged synthesis of hollow ceria-based composites. <i>Nanoscale</i> , <b>2015</b> , 7, 5578-91	7.7	30
769	General formation of Mn-based transition metal oxide twin-microspheres with enhanced lithium storage properties. <b>2015</b> , 5, 26863-26871		16
768	Ternary oxide nanostructured materials for supercapacitors: a review. <b>2015</b> , 3, 10158-10173		260
767	Improving Capacitance by Introducing Nitrogen Species and Defects into Graphene. <b>2015</b> , 2, 859-866		10
766	Fabrication, characterization, and magnetic behavior of porous ZnFe <sub>2</sub> O <sub>4</sub> hollow microspheres. <b>2015</b> , 5, 53-59		10



765	Rutile TiO <sub>2</sub> Submicroboxes with Superior Lithium Storage Properties. <b>2015</b> , 127, 4073-4076		11
764	A high performance lithium-ion sulfur battery based on a Li <sub>2</sub> S cathode using a dual-phase electrolyte. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1551-1558	35.4	197
763	MOF-directed templating synthesis of a porous multicomponent dodecahedron with hollow interiors for enhanced lithium-ion battery anodes. <b>2015</b> , 3, 8483-8488		155
762	Facile hydrothermal synthesis of tubular kapok fiber/MnO <sub>2</sub> composites and application in supercapacitors. <b>2015</b> , 5, 64065-64075		24
761	Hybrid core/shell microparticles and their use for understanding biological processes. <b>2015</b> , 457, 9-17		14
760	Tunneling holes in microparticles to facilitate the transport of lithium ions for high volumetric density batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 14368-77	7.7	13
759	Crumpled graphene: preparation and applications. <b>2015</b> , 5, 66767-66796		52
758	One-dimensional porous nanofibers of Co <sub>3</sub> O <sub>4</sub> on the carbon matrix from human hair with superior lithium ion storage performance. <b>2015</b> , 5, 12382		60
757	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. <b>2015</b> , 5, 12389		70
756	Control over large-volume changes of lithium battery anodes via active/inactive metal alloy embedded in porous carbon. <b>2015</b> , 15, 755-765		46
755	Formation of double layer hollow nanostars of Pd/CuIr by utilizing a Kirkendall effect and a facile Cu atom movement along twinning boundaries and their usage as efficient water splitting catalysts. <b>2015</b> , 17, 4084-4088		16
754	Fabrication of TiO <sub>2</sub> hollow nanocrystals through the nanoscale Kirkendall effect for lithium-ion batteries and photocatalysis. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 3145-3149	3.6	17
753	Synthesis of reduced graphene oxide wrapped-copper sulfide hollow spheres as electrode material for supercapacitor. <b>2015</b> , 40, 10158-10167		90
752	Heterogeneous NiCo <sub>2</sub> O <sub>4</sub> @polypyrrole core/sheath nanowire arrays on Ni foam for high performance supercapacitors. <b>2015</b> , 294, 120-127		125
751	Multi-shelled hollow micro-/nanostructures. <b>2015</b> , 44, 6749-73		540
750	Redox Active Polyaniline-h-MoO <sub>3</sub> Hollow Nanorods for Improved Pseudocapacitive Performance. <b>2015</b> , 119, 9041-9049		67
749	Facile Synthesis of Hollow Mesoporous CoFe <sub>2</sub> O <sub>4</sub> Nanospheres and Graphene Composites as High-Performance Anode Materials for Lithium-Ion Batteries. <b>2015</b> , 2, 1010-1018		43
748	Hollow melamine resin-based carbon spheres/graphene composite with excellent performance for supercapacitors. <b>2015</b> , 166, 310-319		78

747	A High-Rate and Ultralong-Life Sodium-Ion Battery Based on NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanocubes with Synergistic Coating of Carbon and Rutile TiO <sub>2</sub> . <b>2015</b> , 11, 3744-9	106
746	The dual-wavelength excitation photochromic behavior of organic induced MoO <sub>3</sub> powders synthesized via a hydrothermal route. <b>2015</b> , 279, 233-239	7
745	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. <b>2015</b> , 9, 5198-207	375
744	Designed Formation of Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <b>2015</b> , 137, 5590-5	880
743	Soft chemistry synthesis route toward Bi <sub>2</sub> Te <sub>3</sub> hierarchical hollow spheres. <b>2015</b> , 17, 1	4
742	Halloysite nanotubes template-induced fabrication of carbon/manganese dioxide hybrid nanotubes for supercapacitors. <b>2015</b> , 21, 2329-2336	8
741	Hollow structured Sn-Co nanospheres by galvanic replacement reaction as high-performance anode for lithium ion batteries. <b>2015</b> , 21, 2137-2147	10
740	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. <b>2015</b> , 58, 114-125	22
739	Hierarchically Porous NaCoPO <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> Hollow Microspheres for Flexible Asymmetric Solid-State Supercapacitors. <b>2015</b> , 32, 831-839	39
738	Single crystalline hollow metal-organic frameworks: a metal-organic polyhedron single crystal as a sacrificial template. <b>2015</b> , 51, 3678-81	44
737	Sb porous hollow microspheres as advanced anode materials for sodium-ion batteries. <b>2015</b> , 3, 2971-2977	130
736	Metallic Ni nanocatalyst in situ formed from a metal-organic-framework by mechanochemical reaction for hydrogen storage in magnesium. <b>2015</b> , 3, 8294-8299	49
735	A coral-inspired nanoscale design of SnCu/PANI/GO hybrid anode materials for high performance lithium-ion batteries. <b>2015</b> , 5, 21525-21531	10
734	Hierarchical tubular structures constructed from ultrathin TiO <sub>2</sub> (B) nanosheets for highly reversible lithium storage. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1480-1483	35-4 166
733	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <b>2015</b> , 6, 6694	941
732	Yolk bishell Mn(x)Co(1-x)Fe <sub>2</sub> O <sub>4</sub> hollow microspheres and their embedded form in carbon for highly reversible lithium storage. <b>2015</b> , 7, 6300-9	57
731	Ultrathin MoS <sub>2</sub> Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <b>2015</b> , 54, 7395-8	548
730	Li fast ion conductive La <sub>0.56</sub> Li <sub>0.33</sub> TiO <sub>3</sub> inlaid LiFePO <sub>4</sub> /C microspheres with enhanced high-rate performance as cathode materials. <b>2015</b> , 152, 368-377	21

729	Preparation and electrochemical performance of LiFePO <sub>4</sub> /C microspheres by a facile and novel co-precipitation. <b>2015</b> , 167, 172-178		16
728	Fe <sub>3</sub> O <sub>4</sub> -nanoparticle-decorated TiO <sub>2</sub> nanofiber hierarchical heterostructures with improved lithium-ion battery performance over wide temperature range. <b>2015</b> , 8, 1659-1668		29
727	Jarosite Nanosheets Fabricated via Room-Temperature Synthesis as Cathode Materials for High-Rate Lithium Ion Batteries. <b>2015</b> , 27, 3143-3149		25
726	Copper doped ceria porous nanostructures towards a highly efficient bifunctional catalyst for carbon monoxide and nitric oxide elimination. <b>2015</b> , 6, 2495-2500		59
725	Recent advances in carbon nanospheres: synthetic routes and applications. <b>2015</b> , 51, 9246-56		168
724	Electrospun manganese-cobalt oxide hollow nanofibres synthesized via combustion reactions and their lithium storage performance. <i>Nanoscale</i> , <b>2015</b> , 7, 8351-5	7.7	97
723	Hierarchical MnO <sub>2</sub> Hollow Microspheres as Anode Material of Lithium Ion Battery and Its Conversion Reaction Mechanism Investigated by XANES. <b>2015</b> , 7, 8488-94		100
722	One-pot fabrication of yolk-shell structured La <sub>0.9</sub> Sr <sub>0.1</sub> CoO <sub>3</sub> perovskite microspheres with enhanced catalytic activities for oxygen reduction and evolution reactions. <b>2015</b> , 3, 22448-22453		50
721	Assembling porous carbon-coated TiO <sub>2</sub> (B)/anatase nanosheets on reduced graphene oxide for high performance lithium-ion batteries. <b>2015</b> , 182, 406-415		36
720	Facile synthesis of EMnOOH nanotubes and their application in electrochemical capacitors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 5975-5979	2.1	7
719	Yolk/shell nanoparticles: classifications, synthesis, properties, and applications. <i>Nanoscale</i> , <b>2015</b> , 7, 19789-7873	7.7	214
718	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. <b>2015</b> , 7, 25725-32		56
717	Synthesis and electrochemical properties of spherical and hollow-structured NiO aggregates created by combining the Kirkendall effect and Ostwald ripening. <i>Nanoscale</i> , <b>2015</b> , 7, 19620-6	7.7	59
716	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. <b>2015</b> , 1, 458-476		25
715	Synergetic Effect of Yolk-Shell Structure and Uniform Mixing of SnS-MoS <sub>2</sub> Nanocrystals for Improved Na-Ion Storage Capabilities. <b>2015</b> , 7, 24694-702		92
714	Poly(vinylpyrrolidone)-wrapped carbon nanotube-based fuel cell electrocatalyst shows high durability and performance under non-humidified operation. <b>2015</b> , 3, 23316-23322		31
713	Facile Scalable Synthesis of TiO <sub>2</sub> /Carbon Nanohybrids with Ultrasmall TiO <sub>2</sub> Nanoparticles Homogeneously Embedded in Carbon Matrix. <b>2015</b> , 7, 24247-55		29
712	Truncated octahedral LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode material for ultralong-life lithium-ion battery: Positive (100) surfaces in high-voltage spinel system. <b>2015</b> , 300, 430-437		49

711	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. <b>2015</b> , 3, 23283-23288	82
710	Generalized synthesis and evaluation of formation mechanism of metal oxide/sulphide@C hollow spheres. <b>2015</b> , 3, 20297-20304	15
709	Shape-controlled synthesis of Mn <sub>2</sub> O <sub>3</sub> hollow structures and their catalytic properties. <b>2015</b> , 17, 7406-7413	23
708	Ionic liquid assisted hydrothermal synthesis of hollow core/shell MoS <sub>2</sub> microspheres. <b>2015</b> , 160, 550-554	14
707	Metal-organic framework nanocrystals as sacrificial templates for hollow and exceptionally porous titania and composite materials. <b>2015</b> , 54, 9483-90	45
706	Ultrathin MnO <sub>2</sub> nanoflakes grown on N-doped carbon nanoboxes for high-energy asymmetric supercapacitors. <b>2015</b> , 3, 21337-21342	58
705	Hollowed-out tubular carbon@MnO <sub>2</sub> hybrid composites with controlled morphology derived from kapok fibers for supercapacitor electrode materials. <b>2015</b> , 178, 709-720	22
704	Enhanced cycling performances of hollow Sn compared to solid Sn in Na-ion battery. <b>2015</b> , 180, 227-233	36
703	Nanotubes within transition metal silicate hollow spheres: Facile preparation and superior lithium storage performances. <b>2015</b> , 70, 573-578	20
702	Perforated Metal Oxide-Carbon Nanotube Composite Microspheres with Enhanced Lithium-Ion Storage Properties. <b>2015</b> , 9, 10173-85	84
701	N and Ti <sup>3+</sup> co-doped 3D anatase TiO <sub>2</sub> superstructures composed of ultrathin nanosheets with enhanced visible light photocatalytic activity. <b>2015</b> , 3, 22073-22080	60
700	Hollow-in-Hollow Carbon Spheres for Lithium-ion Batteries with Superior Capacity and Cyclic Performance. <b>2015</b> , 186, 436-441	25
699	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. <b>2015</b> , 7, 26572-8	71
698	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 702-730	35.4 1739
697	Facile fabrication of urchin-like hollow boehmite and alumina microspheres with a hierarchical structure via Triton X-100 assisted hydrothermal synthesis. <b>2015</b> , 17, 1318-1325	35
696	Template-assisted synthesis of multi-shelled carbon hollow spheres with an ultralarge pore volume as anode materials in Li-ion batteries. <b>2015</b> , 5, 3657-3664	30
695	CdS/CdSe co-sensitized TiO <sub>2</sub> nanowire-coated hollow Spheres exceeding 6% photovoltaic performance. <b>2015</b> , 11, 621-630	85
694	A sodium ion conducting gel polymer electrolyte. <b>2015</b> , 269, 1-7	122

693	Synthesis of mesoporous CuO microspheres with core-in-hollow-shell structure and its application for non-enzymatic sensing of glucose. <b>2015</b> , 45, 131-138		18
692	3D hollow structured Co <sub>2</sub> FeO <sub>4</sub> /MWCNT as an efficient non-precious metal electrocatalyst for oxygen reduction reaction. <b>2015</b> , 3, 1601-1608		39
691	Reaction time effect of straw-like MoO <sub>3</sub> prepared with a facile, additive-free hydrothermal process. <b>2015</b> , 5, 255-260		8
690	Resistive memory for harsh electronics: immunity to surface effect and high corrosion resistance via surface modification. <b>2014</b> , 4, 4402		32
689	Rapid continuous synthesis of spherical reduced graphene ball-nickel oxide composite for lithium ion batteries. <b>2014</b> , 4, 5786		29
688	Iron oxide nanoparticle layer templated by polydopamine spheres: a novel scaffold toward hollow-mesoporous magnetic nanoreactors. <i>Nanoscale</i> , <b>2015</b> , 7, 806-13	7.7	21
687	NaTiO <sub>2</sub> : a layered anode material for sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 195-202	35.4	220
686	Crystallinity control of TiO <sub>2</sub> hollow shells through resin-protected calcination for enhanced photocatalytic activity. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 286-296	35.4	134
685	One-pot synthesis of manganese oxide-carbon composite microspheres with three dimensional channels for Li-ion batteries. <b>2014</b> , 4, 5751		33
684	Nickel/cobalt layered double hydroxide hollow microspheres with hydrangea-like morphology for high-performance supercapacitors. <b>2015</b> , 152, 530-537		62
683	Hierarchical LiMn <sub>2</sub> O <sub>4</sub> Hollow Cubes with Exposed {111} Planes as High-Power Cathodes for Lithium-Ion Batteries. <b>2016</b> , 8, 19567-72		39
682	Core/Shell Silicon@Mesoporous TiO <sub>2</sub> Heterostructure: Towards Solar-Powered Photoelectrochemical Conversion. <b>2016</b> , 2, 647-651		4
681	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <b>2016</b> , 1, 102-113		406
680	Recent progresses in solar cells: Insight into hollow micro/nanostructures. <b>2016</b> , 64, 543-568		17
679	Synthesis of Hollow Silver Spheres using Spherical Vaterite-type Calcium Carbonate as Template. <b>2016</b> , 37, 269-275		2
678	Nanoparticle Cookies Derived from Metal-Organic Frameworks: Controlled Synthesis and Application in Anode Materials for Lithium-Ion Batteries. <b>2016</b> , 12, 2365-75		84
677	Multishelled Metal Oxide Hollow Spheres: Easy Synthesis and Formation Mechanism. <b>2016</b> , 22, 8864-71		115
676	Metal Sulfide Hollow Nanostructures for Electrochemical Energy Storage. <b>2016</b> , 6, 1501333		563

675	Polyimide-based porous hollow carbon nanofibers for supercapacitor electrode. <b>2016</b> , 133, n/a-n/a	46
674	Homologous V <sub>2</sub> O <sub>3</sub> /C box-in-box and V <sub>2</sub> O <sub>5</sub> box for lithium-ion full cells. <b>2016</b> , 4, 12030-12035	39
673	Unexpected solution phase formation of hollow PtSn alloy nanoparticles from Sn deposition on Pt dendritic structures. <b>2016</b> , 18, 6019-6023	4
672	Synthesis of mesoporous TiO <sub>2</sub> @C@MnO <sub>2</sub> multi-shelled hollow nanospheres with high rate capability and stability for lithium-ion batteries. <b>2016</b> , 6, 65243-65251	12
671	Synthesis of Highly Uniform Molybdenum-Glycerate Spheres and Their Conversion into Hierarchical MoS <sub>2</sub> Hollow Nanospheres for Lithium-Ion Batteries. <b>2016</b> , 55, 7423-6	251
670	Nanostructured TiO <sub>2</sub> -Based Anode Materials for High-Performance Rechargeable Lithium-Ion Batteries. <b>2016</b> , 2, 764-775	90
669	Synthesis of Highly Uniform Molybdenum-Glycerate Spheres and Their Conversion into Hierarchical MoS <sub>2</sub> Hollow Nanospheres for Lithium-Ion Batteries. <b>2016</b> , 128, 7549-7552	28
668	A Simple Approach in the Synthesis of Geometrically Tunable Nano-size Hollow Silicate Particles and the evaluation for Thermal Energy Saving Applications. <b>2016</b> , 1, 3965-3970	1
667	Electrochemical supercapacitor based on double perovskite Y <sub>2</sub> NiMnO <sub>6</sub> nanowires. <b>2016</b> , 6, 114722-114726	62
666	Formation of nickel-doped magnetite hollow nanospheres with high specific surface area and superior removal capability for organic molecules. <b>2016</b> , 27, 485601	3
665	Mikroemulsionen: neue Möglichkeiten zur Erweiterung der Synthese anorganischer Nanopartikel. <b>2016</b> , 128, 15958-15984	5
664	Development of micro / nano-size hollow silicate particles for thermal energy saving application. <b>2016</b> , 1, 3947-3952	2
663	Contribution of multiple reflections to light utilization efficiency of submicron hollow TiO <sub>2</sub> photocatalyst. <b>2016</b> , 59, 1017-1026	22
662	Rapid microwave-assisted synthesis of nitrogen-functionalized hollow carbon spheres with high monodispersity. <b>2016</b> , 107, 11-19	35
661	TiO <sub>2</sub> hierarchical hollow microspheres with different size for application as anodes in high-performance lithium storage. <b>2016</b> , 175, 488-494	23
660	Core-shell Mn <sub>3</sub> O <sub>4</sub> /birnessite-MnO <sub>2</sub> hierarchical structure with enhanced adsorption towards methylene blue. <b>2016</b> , 09, 1650020	4
659	Multi-shelled Fe <sub>2</sub> O <sub>3</sub> microspheres for high-rate supercapacitors. <b>2016</b> , 59, 247-253	22
658	Metal hollow sphere electrocatalysts. <b>2016</b> , 33, 1514-1529	10

657	Preparation of porous cadmium sulphide on nickel foam: a novel electrode material with excellent supercapacitor performance. <b>2016</b> , 4, 4920-4928	55
656	Preparation of silica nanoparticles based multifunctional therapeutic systems via one-step mussel inspired modification. <b>2016</b> , 296, 268-276	22
655	Low temperature synthesis of graphene hybridized surface defective hierarchical core-shell structured ZnO hollow microspheres with long-term stable and enhanced photoelectrochemical activity. <b>2016</b> , 6, 36058-36068	19
654	Preparation of hierarchical porous graphene nanosheets with high specific surface area and their electrochemical behaviors in supercapacitors. <b>2016</b> , 177, 171-178	8
653	3D RGO frameworks wrapped hollow spherical SnO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> mesoporous nano-shells: fabrication, characterization and lithium storage properties. <b>2016</b> , 202, 186-196	15
652	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. <b>2016</b> , 205, 132-141	109
651	The template-free synthesis of hierarchically porous anatase TiO <sub>2</sub> via acid-etching for enhancing the cycling stability and reversible capacity of lithium ion batteries. <b>2016</b> , 6, 48985-48994	9
650	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. <b>2016</b> , 116, 10983-1060	996
649	Facile strategy for controllable synthesis of stable mesoporous black TiO <sub>2</sub> hollow spheres with efficient solar-driven photocatalytic hydrogen evolution. <b>2016</b> , 4, 7495-7502	173
648	Excellent electrochemical performances of cabbage-like polyaniline fabricated by template synthesis. <b>2016</b> , 321, 94-101	29
647	Carbon nanocages@ultrathin carbon nanosheets: One-step facile synthesis and application as anode material for lithium-ion batteries. <b>2016</b> , 105, 586-592	25
646	Production and characterization of free-standing ZnO/SnO <sub>2</sub> /MWCNT ternary nanocomposite Li-ion battery anode. <b>2016</b> , 41, 9924-9932	15
645	Mesoporous Magnesium Oxide Hollow Spheres as Superior Arsenite Adsorbent: Synthesis and Adsorption Behavior. <b>2016</b> , 8, 25306-12	56
644	Facile Aqueous-Phase Synthesis and Electrochemical Properties of Novel PtPd Hollow Nanocatalysts. <b>2016</b> , 212, 966-972	22
643	Introduction to Nanomaterials and Nanocomposites. <b>2016</b> , 1-4	3
642	Block Copolymer-Assisted Solvothermal Synthesis of Hollow BiMoO Spheres Substituted with Samarium. <b>2016</b> , 32, 10967-10976	21
641	Quantitatively in Situ Imaging Silver Nanowire Hollowing Kinetics. <b>2016</b> , 16, 6555-6559	21
640	3D Cathodes of Cupric Oxide Nanosheets Coated onto Macroporous Antimony-Doped Tin Oxide for Photoelectrochemical Water Splitting. <b>2016</b> , 9, 3012-3018	16

639	Semimicro-size agglomerate structured silicon-carbon composite as an anode material for high performance lithium-ion batteries. <b>2016</b> , 334, 128-136	41
638	Highly Durable Supportless Pt Hollow Spheres Designed for Enhanced Oxygen Transport in Cathode Catalyst Layers of Proton Exchange Membrane Fuel Cells. <b>2016</b> , 8, 27730-27739	21
637	A Binder-Free Hybrid of CuO-Microspheres and rGO Nanosheets as an Alternative Material for Next Generation Energy Storage Application. <b>2016</b> , 1, 2826-2833	26
636	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. <b>2016</b> , 27, 482-491	229
635	Glass/Iron oxide, glass/Iron and glass/Iron/Carbon composite hollow particles with tunable electromagnetic properties. <b>2016</b> , 4, 7979-7988	7
634	Comparative investigation of hollow mesoporous NiCo <sub>2</sub> S <sub>4</sub> ellipsoids with enhanced pseudo-capacitances towards high-performance asymmetric supercapacitors. <b>2016</b> , 214, 76-84	104
633	Colloidal and micro-carbon spheres derived from low-temperature polymerization reactions. <b>2016</b> , 236, 113-41	20
632	Shape-controlled iron oxide nanocrystals: synthesis, magnetic properties and energy conversion applications. <b>2016</b> , 18, 6303-6326	47
631	Fabrication of optomicrofluidics for real-time bioassays based on hollow sphere colloidal photonic crystals with wettability patterns. <b>2016</b> , 4, 7853-7858	23
630	Recent Development of Advanced Electrode Materials by Atomic Layer Deposition for Electrochemical Energy Storage. <b>2016</b> , 3, 1500405	78
629	Carbon supported Co <sub>9</sub> S <sub>8</sub> hollow spheres assembled from ultrathin nanosheets for high-performance supercapacitors. <b>2016</b> , 183, 290-295	24
628	A porous ternary PtPdCu alloy with a spherical network structure for electrocatalytic methanol oxidation. <b>2016</b> , 6, 83373-83379	7
627	One-pot synthesis of hollow NiSe/IrSe nanoparticles with improved performance for hybrid supercapacitors. <b>2016</b> , 329, 314-322	110
626	3D network single-phase Ni <sub>0.9</sub> Zn <sub>0.1</sub> O as anode materials for lithium-ion batteries. <b>2016</b> , 28, 338-345	38
625	Kinetically Controlled Synthesis of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. <b>2016</b> , 55, 9352-9361	18
624	MoS <sub>2</sub> yolk-shell microspheres with a hierarchical porous structure for efficient hydrogen evolution. <b>2016</b> , 9, 3038-3047	33
623	Synthesis of novel hollow graphitic vesicle-supported Pt nanoparticles for oxygen reduction reaction. <b>2016</b> , 109, 505-516	7
622	Fabrication of Nitrogen-Doped Hollow Mesoporous Spherical Carbon Capsules for Supercapacitors. <b>2016</b> , 32, 8934-41	52



621	Controllable fabrication of urchin-like CoO hollow spheres for high-performance supercapacitors and lithium-ion batteries. <i>Dalton Transactions</i> , <b>2016</b> , 45, 15155-15161	4.3	37
620	Hierarchical NiFe Layered Double Hydroxide Hollow Microspheres with Highly-Efficient Behavior toward Oxygen Evolution Reaction. <b>2016</b> , 8, 33697-33703		141
619	Nanolaminated composite materials: structure, interface role and applications. <b>2016</b> , 6, 109361-109385		37
618	Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8408-8417	15.6	90
617	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7590-7598	15.6	168
616	Nanostructured core-shell electrode materials for electrochemical capacitors. <b>2016</b> , 331, 408-425		82
615	Synthesis and applications of porous non-silica metal oxide submicrospheres. <b>2016</b> , 45, 6013-6047		118
614	Hierarchical hollow microflowers constructed from mesoporous single crystalline CoMn <sub>2</sub> O <sub>4</sub> nanosheets for high performance anode of lithium ion battery. <b>2016</b> , 326, 505-513		43
613	Carbon nanotube decorated NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanocomposite for a high-rate and low-temperature sodium-ion battery anode. <b>2016</b> , 6, 70277-70283		42
612	Magneto-Plasmonic Nanocapsules for Multimodal-Imaging and Magnetically Guided Combination Cancer Therapy. <b>2016</b> , 28, 5896-5904		55
611	Functional Three-Dimensional Graphene/Polymer Composites. <b>2016</b> , 10, 7231-47		245
610	Wormlike micelle templated synthesis of mono- and bi-metallic nanochain networks with adjustable structure and constituents. <b>2016</b> , 6, 67495-67501		4
609	Recent progress in hollow sphere-based electrodes for high-performance supercapacitors. <b>2016</b> , 27, 342001		35
608	A facile low temperature route to deposit a TiO <sub>2</sub> scattering layer for efficient dye-sensitized solar cells. <b>2016</b> , 6, 70895-70901		13
607	Hollow carbon spheres, synthesis and applications <a href="#">in</a> review. <b>2016</b> , 4, 12686-12713		208
606	The roles of formic acid and levulinic acid on the formation and growth of carbonaceous spheres by hydrothermal carbonization. <b>2016</b> , 6, 102428-102435		17
605	Microemulsions: Options To Expand the Synthesis of Inorganic Nanoparticles. <b>2016</b> , 55, 15728-15752		54
604	Colored TiO <sub>2</sub> hollow spheres for efficient water-splitting photocatalysts. <b>2016</b> , 6, 108969-108973		5

603	Rational Integration of Inbuilt Aperture with Mesoporous Framework in Unusual Asymmetrical Yolk-Shell Structures for Energy Storage and Conversion. <b>2016</b> , 8, 32901-32909	17
602	A universal cooperative assembly-directed method for coating of mesoporous TiO(2) nanoshells with enhanced lithium storage properties. <b>2016</b> , 2, e1501554	174
601	Formation of Triple-Shelled Molybdenum Polydopamine Hollow Spheres and Their Conversion into MoO <sub>2</sub> /Carbon Composite Hollow Spheres for Lithium-Ion Batteries. <b>2016</b> , 128, 14888-14892	33
600	Formation of Triple-Shelled Molybdenum-Polydopamine Hollow Spheres and Their Conversion into MoO /Carbon Composite Hollow Spheres for Lithium-Ion Batteries. <b>2016</b> , 55, 14668-14672	152
599	Synthesis of zinc oxide/titanium dioxide (ZnO/TiO <sub>2</sub> ) nanocomposites by wet incipient wetness impregnation method and preparation of ZnO/TiO <sub>2</sub> paste using poly(vinylpyrrolidone) for efficient dye-sensitized solar cells. <b>2016</b> , 222, 473-480	29
598	Applying Nanoscale Kirkendall Diffusion for Template-Free, Kilogram-Scale Production of SnO <sub>2</sub> Hollow Nanospheres via Spray Drying System. <b>2016</b> , 6, 23915	29
597	Controlled synthesis of N-doped carbon spheres with different morphologies for supercapacitors. <b>2016</b> , 6, 104642-104647	7
596	Engineering of multi-shelled SnO <sub>2</sub> hollow microspheres for highly stable lithium-ion batteries. <b>2016</b> , 4, 17673-17677	108
595	Amphiphilic Block Copolymer Templated Synthesis of Mesoporous Indium Oxides with Nanosheet-Assembled Pore Walls. <b>2016</b> , 28, 7997-8005	59
594	SiO <sub>2</sub> Hollow Nanosphere-Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. <b>2016</b> , 6, 1502214	271
593	Electrolytic Formation of Crystalline Silicon/Germanium Alloy Nanotubes and Hollow Particles with Enhanced Lithium-Storage Properties. <b>2016</b> , 128, 7553-7557	13
592	Formation of Uniform N-doped Carbon-Coated SnO <sub>2</sub> Submicroboxes with Enhanced Lithium Storage Properties. <b>2016</b> , 6, 1600451	233
591	Biomass-derived carbon: synthesis and applications in energy storage and conversion. <b>2016</b> , 18, 4824-4854	560
590	Polydopamine directed MnO@C microstructures as electrode for lithium ion battery. <b>2016</b> , 59, 122-127	16
589	Multi-shelled NiO hollow spheres: Easy hydrothermal synthesis and lithium storage performances. <b>2016</b> , 685, 8-14	61
588	A novel anode comprised of C&N co-doped Co <sub>3</sub> O <sub>4</sub> hollow nanofibres with excellent performance for lithium-ion batteries. <b>2016</b> , 18, 19531-5	23
587	Facile solvothermal synthesis of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C porous plates as electrode materials for high-performance sodium ion batteries. <b>2016</b> , 325, 474-481	33
586	Facile Synthesis of Hollow Polyhedral (Cubic, Octahedral and Dodecahedral) NiO with Enhanced Lithium Storage Capabilities. <b>2016</b> , 211, 207-216	13

585	General Synthesis of Porous Mixed Metal Oxide Hollow Spheres with Enhanced Supercapacitive Properties. <b>2016</b> , 8, 17226-32		65
584	Fabrication of Various V <sub>2</sub> O <sub>5</sub> Hollow Microspheres as Excellent Cathode for Lithium Storage and the Application in Full Cells. <b>2016</b> , 8, 17205-11		41
583	Enhancing charge separation on high symmetry SrTiO <sub>3</sub> exposed with anisotropic facets for photocatalytic water splitting. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2463-2469	35-4	274
582	A durable, high-performance hollow-nanofiber cathode for intermediate-temperature fuel cells. <b>2016</b> , 26, 90-99		68
581	Design and synthesis of hollow NiCo <sub>2</sub> O <sub>4</sub> nanoboxes as anodes for lithium-ion and sodium-ion batteries. <b>2016</b> , 18, 18949-57		68
580	Facile synthesis and application of multi-shelled SnO <sub>2</sub> hollow spheres in lithium ion battery. <b>2016</b> , 6, 58069-58076		84
579	Hollow porous carbon spheres with hierarchical nanoarchitecture for application of the high performance supercapacitors. <b>2016</b> , 211, 183-192		102
578	Metal Oxide Nanomaterials with Nitrogen-Doped Graphene-Silk Nanofiber Complexes as Templates. <b>2016</b> , 33, 286-292		4
577	Hollow CeO <sub>2</sub> dodecahedrons: one-step template synthesis and enhanced catalytic performance. <b>2016</b> , 6, 60975-60982		19
576	Electrolytic Formation of Crystalline Silicon/Germanium Alloy Nanotubes and Hollow Particles with Enhanced Lithium-Storage Properties. <b>2016</b> , 55, 7427-31		131
575	Hollow-Structured Carbon-Supported Nickel Cobaltite Nanoparticles as an Efficient Bifunctional Electrocatalyst for the Oxygen Reduction and Evolution Reactions. <b>2016</b> , 8, 736-742		55
574	Design and synthesis of metal oxide hollow nanopowders for lithium-ion batteries by combining nanoscale Kirkendall diffusion and flame spray pyrolysis. <b>2016</b> , 42, 5461-5471		8
573	In situ synthesis of porous ZnO-embedded Zn <sub>1-x</sub> Cd <sub>x</sub> S/CdS heterostructures for enhanced photocatalytic activity. <b>2016</b> , 18, 1446-1452		6
572	All-in-One Beaker Method for Large-Scale Production of Metal Oxide Hollow Nanospheres Using Nanoscale Kirkendall Diffusion. <b>2016</b> , 8, 3800-9		13
571	Enhancing the performance of MnO by double carbon modification for advanced lithium-ion battery anodes. <b>2016</b> , 4, 920-925		64
570	Syntheses and biomedical applications of hollow micro-/nano-spheres with large-through-holes. <b>2016</b> , 45, 690-714		129
569	High performance electrochemical capacitor materials focusing on nickel based materials. <b>2016</b> , 3, 175-202		238
568	Pt supported nitrogen doped hollow carbon spheres for the catalysed reduction of cinnamaldehyde. <b>2016</b> , 517, 30-38		17

567	Fabrication of cubic Zn <sub>2</sub> SnO <sub>4</sub> /SnO <sub>2</sub> complex hollow structures and their sunlight-driven photocatalytic activity. <i>Nanoscale</i> , <b>2016</b> , 8, 12858-62	7-7	51
566	Self-anchoring dendritic ternary vanadate compound on graphene nanoflake as high-performance conversion-type anode for lithium ion batteries. <b>2016</b> , 22, 179-188		9
565	Facile synthesis of bowl-shaped nitrogen-doped carbon hollow particles templated by block copolymer vesicles for high performance supercapacitors. <b>2016</b> , 7, 2092-2098		52
564	Fabrication of hematite (Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles using electrochemical deposition. <b>2016</b> , 368, 303-308		37
563	Preparation and characterisation of rutile titanium dioxide of special hollow microspheres. <b>2016</b> , 11, 1-3		52
562	Realizing omnidirectional light harvesting by employing hierarchical architecture for dye sensitized solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 5478-87	7-7	10
561	Template-free synthesis of titania architectures with controlled morphology evolution. <b>2016</b> , 51, 3941-3956		7
560	Rational design and fabrication of core-shell nanoparticles through a one-step/pot strategy. <b>2016</b> , 4, 6680-6692		69
559	Hierarchically structured ZnO-graphene hollow microspheres towards effective reusable adsorbent for organic pollutant via photodegradation process. <b>2016</b> , 669, 177-186		43
558	Single-crystalline Fe <sub>2</sub> O <sub>3</sub> void@frame microframes for rechargeable batteries. <b>2016</b> , 4, 4425-4432		19
557	Nanostructuring of nanoporous iron carbide spheres via thermal degradation of triple-shelled Prussian blue hollow spheres for oxygen reduction reaction. <b>2016</b> , 6, 10341-10351		27
556	Bismuth oxychloride hollow microspheres with high visible light photocatalytic activity. <b>2016</b> , 9, 593-601		70
555	Hydrothermal growth of ZnO nanowires scaffolds within mesoporous TiO <sub>2</sub> photoanodes for dye-sensitized solar cells with enhanced efficiency. <b>2016</b> , 196, 348-356		30
554	Preparation of binder-free CuO/Cu <sub>2</sub> O/Cu composites: a novel electrode material for supercapacitor applications. <b>2016</b> , 6, 28270-28278		41
553	Quantitative Characterization of Mechanical Property of Annealed Monolayer Colloidal Crystal. <b>2016</b> , 32, 451-9		7
552	Multi-shelled LiMn <sub>2</sub> O <sub>4</sub> hollow microspheres as superior cathode materials for lithium-ion batteries. <b>2016</b> , 3, 365-369		75
551	One-pot Aerosol Synthesis of Carbon Nanotube-Zn <sub>2</sub> GeO <sub>4</sub> Composite Microspheres for Enhanced Lithium-ion Storage Properties. <b>2016</b> , 190, 766-774		15
550	A facile synthesis and electrochemical performance of Na <sub>0.6</sub> Li <sub>0.6</sub> [Mn <sub>0.72</sub> Ni <sub>0.18</sub> Co <sub>0.10</sub> ]O <sub>2</sub> as cathode materials for Li and Na ion batteries. <b>2016</b> , 16, 226-230		3

549	TiO <sub>2</sub> hollow spheres as light scattering centers in TiO <sub>2</sub> photoanodes for dye-sensitized solar cells: the effect of sphere diameter. <b>2016</b> , 663, 211-216		33
548	Fabrication of sandwich nanostructure graphene/polyaniline hollow spheres composite and its applications as electrode materials for supercapacitor. <b>2016</b> , 76, 344-352		30
547	Ti(IV) oxalate complex-derived hierarchical hollow TiO <sub>2</sub> materials with dye degradation properties in water. <i>Dalton Transactions</i> , <b>2016</b> , 45, 265-70	4-3	10
546	TiO <sub>2</sub> /CdS porous hollow microspheres rapidly synthesized by salt-assistant aerosol decomposition method for excellent photocatalytic hydrogen evolution performance. <i>Dalton Transactions</i> , <b>2016</b> , 45, 1160-5	4-3	25
545	Precursor-mediated synthesis of double-shelled V <sub>2</sub> O <sub>5</sub> hollow nanospheres as cathode material for lithium-ion batteries. <b>2016</b> , 18, 4068-4073		19
544	Rational synthesis of metal-organic framework composites, hollow structures and their derived porous mixed metal oxide hollow structures. <b>2016</b> , 4, 183-192		59
543	Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb <sub>3</sub> O <sub>7</sub> (OH) and Nb <sub>2</sub> O <sub>5</sub> Superstructures for Energy Storage and Conversion Applications. <b>2016</b> , 10, 507-14		65
542	One-dimensional metal oxide-carbon hybrid nanostructures for electrochemical energy storage. <b>2016</b> , 1, 27-40		102
541	Cu/TiO <sub>2</sub> octahedral-shell photocatalysts derived from metal-organic framework@semiconductor hybrid structures. <b>2016</b> , 3, 104-110		34
540	Porous spherical polyacrylonitrile-carbon nanocomposite with high loading of sulfur for lithium-sulfur batteries. <b>2016</b> , 302, 70-78		70
539	Uniform Hollow Mesoporous Nickel Cobalt Sulfide Microdumbbells: A Competitive Electrode with Exceptional Gravimetric/Volumetric Pseudocapacitance for High-Energy-Density Hybrid Supercapacitors. <b>2017</b> , 3, 1600322		31
538	A comparative study of Si-containing electrolyte additives for lithium ion battery: Which one is better and why is it better. <b>2017</b> , 342, 677-684		42
537	LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> nano-submicro cubes as high-performance 5 V cathode materials for lithium-ion batteries. <b>2017</b> , 230, 293-298		26
536	Impressive lithium storage of SnO <sub>2</sub> @TiO <sub>2</sub> nanospheres with a yolk-like core derived from self-assembled SnO <sub>2</sub> nanoparticles. <b>2017</b> , 702, 99-105		16
535	General synthesis of metal oxide hollow core-shell microspheres as anode materials for lithium-ion batteries and as adsorbents for wastewater treatment. <b>2017</b> , 19, 1311-1319		8
534	Facile Preparation of Ultrathin Co O /Nanocarbon Composites with Greatly Improved Surface Activity as a Highly Efficient Oxygen Evolution Reaction Catalyst. <b>2017</b> , 23, 4010-4016		41
533	Synthesis of Micro/nanostructured Co <sub>9</sub> S <sub>8</sub> Cubes and Spheres as High Performance Anodes for Lithium Ion Batteries. <b>2017</b> , 230, 299-307		28
532	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <b>2017</b> , 29, 1604563		529

531	Synthesis, characterization and catalytic application of polyhedron zinc oxide microparticles. <b>2017</b> , 4, 015902	22
530	Facile preparation of Mn <sub>3</sub> O <sub>4</sub> hollow microspheres via reduction of pentachloropyridine and their performance in lithium-ion batteries. <b>2017</b> , 7, 8264-8271	18
529	Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> via the combination of hard templating and co-precipitation method. <b>2017</b> , 43, 5941-5948	4
528	Surface modification of Cobalt ferrite nano-hollowspheres for inherent multiple photoluminescence and enhanced photocatalytic activities. <b>2017</b> , 672, 57-62	16
527	Preparation of TiO <sub>2</sub> nanoparticles by sparking technique for enhancing photovoltaic performance of dye-sensitized solar cells. <b>2017</b> , 43, 4339-4352	4
526	Facile synthesis of novel bowl-like hollow carbon spheres by the combination of hydrothermal carbonization and soft templating. <b>2017</b> , 53, 2922-2925	44
525	Light manipulation in a dually ordered porous TiO <sub>2</sub> /GO composite for efficient solar energy utilization. <b>2017</b> , 4, 578-580	3
524	Coordination Polymers Derived General Synthesis of Multishelled Mixed Metal-Oxide Particles for Hybrid Supercapacitors. <b>2017</b> , 29, 1605902	296
523	Phthalocyanine tethered iron phthalocyanine on graphitized carbon black as superior electrocatalyst for oxygen reduction reaction. <b>2017</b> , 34, 338-343	73
522	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <b>2017</b> , 29, 1602914	424
521	Nanoparticle-assembled LiMn <sub>2</sub> O <sub>4</sub> hollow microspheres as high-performance lithium-ion battery cathode. <b>2017</b> , 96, 437-442	13
520	A facile method for the synthesis of a C@MoO <sub>2</sub> hollow yolk-shell structure and its electrochemical properties as a faradaic electrode. <b>2017</b> , 1, 1585-1593	21
519	Fabrication of core-shell, yolk-shell and hollow Fe <sub>3</sub> O <sub>4</sub> @carbon microboxes for high-performance lithium-ion batteries. <b>2017</b> , 1, 823-830	56
518	Construction of vesicle CdSe nano-semiconductors photocatalysts with improved photocatalytic activity: Enhanced photo induced carriers separation efficiency and mechanism insight. <b>2017</b> , 60, 98-107	18
517	Design and synthesis of porous ZnTiO <sub>3</sub> /TiO <sub>2</sub> nanocages with heterojunctions for enhanced photocatalytic H <sub>2</sub> production. <b>2017</b> , 5, 11615-11622	47
516	Graphene-doped carbon/Fe <sub>3</sub> O <sub>4</sub> porous nanofibers with hierarchical band construction as high-performance anodes for lithium-ion batteries. <b>2017</b> , 229, 306-315	45
515	Controlled synthesis of highly active Au/CeO <sub>2</sub> nanotubes for CO oxidation. <b>2017</b> , 1, 1629-1634	16
514	A promising energy storage system: rechargeable Ni/Zn battery. <b>2017</b> , 36, 381-396	42

513	Real-Time Fluorescence Detection in Aqueous Systems by Combined and Enhanced Photonic and Surface Effects in Patterned Hollow Sphere Colloidal Photonic Crystals. <b>2017</b> , 33, 4840-4846	18
512	Highly exposed nickel cobalt sulfide/GO nanoporous structures: an advanced energy-storage electrode material. <b>2017</b> , 5, 9991-9997	40
511	Hot-Electron-Mediated Photochemical Reactions: Principles, Recent Advances, and Challenges. <b>2017</b> , 5, 1700004	99
510	A P25/(NH)WO hybrid photocatalyst with broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. <b>2017</b> , 8, 45715	23
509	Self-standing Bi <sub>2</sub> O <sub>3</sub> nanoparticles/carbon nanofiber hybrid films as a binder-free anode for flexible sodium-ion batteries. <b>2017</b> , 1, 1615-1621	61
508	Fabrication of Highly Stable Metal Oxide Hollow Nanospheres and Their Catalytic Activity toward 4-Nitrophenol Reduction. <b>2017</b> , 9, 18207-18214	68
507	Ultrasensitive and ultraflexible e-skins with dual functionalities for wearable electronics. <b>2017</b> , 38, 28-35	150
506	Ordered Large-Pore Mesoporous CrO with Ultrathin Framework for Formaldehyde Sensing. <b>2017</b> , 9, 18170-18177	32
505	In Situ Transformation of MOFs into Layered Double Hydroxide Embedded Metal Sulfides for Improved Electrocatalytic and Supercapacitive Performance. <b>2017</b> , 29, 1606814	365
504	Cellulose-Derived Hollow Carbonaceous Nanospheres from Rice Husks as Anode for Lithium-Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. <b>2017</b> , 2, 3627-3632	7
503	Hierarchical micro/nanostructured C doped Co/Co <sub>3</sub> O <sub>4</sub> hollow spheres derived from PS@Co(OH) <sub>2</sub> for the oxygen evolution reaction. <b>2017</b> , 5, 11163-11170	49
502	Nanosheet-assembled NiS hollow structures with double shells and controlled shapes for high-performance supercapacitors. <b>2017</b> , 323, 415-424	58
501	Hierarchical sulfur confinement by graphene oxide wrapped, walnut-like carbon spheres for cathode of Li-S battery. <b>2017</b> , 714, 311-317	26
500	Ionic liquid assisted hydrothermal synthesis of MoS <sub>2</sub> double-shell polyhedral cages with enhanced catalytic hydrogenation activities. <b>2017</b> , 7, 23523-23529	8
499	General Controlled Sulfidation toward Achieving Novel Nanosheet-Built Porous Square-FeCo <sub>2</sub> S <sub>4</sub> -Tube Arrays for High-Performance Asymmetric All-Solid-State Pseudocapacitors. <b>2017</b> , 7, 1601985	191
498	Tunable Co <sub>3</sub> O <sub>4</sub> hollow structures (from yolk-shell to multi-shell) and their Li storage properties. <b>2017</b> , 5, 12757-12761	32
497	Promising anode material for lithium-ion cells based on cobalt oxide synthesized by microwave heating. <b>2017</b> , 23, 1693-1701	4
496	Facile synthesis of nanocrystalline-assembled nest-like NiO hollow microspheres with superior lithium storage performance. <b>2017</b> , 7, 31287-31297	28

495	Reduced graphene oxide modified mesoporous FeNi alloy/carbon microspheres for enhanced broadband electromagnetic wave absorbers. <b>2017</b> , 1, 1786-1794	39
494	Investigation on the Formation Mechanism of Hollow Spheres Prepared by Pulsed Laser Selective Heating Colloidal Nanoparticles in Solution. <b>2017</b> , 121, 12469-12475	8
493	Time-efficient synthesis of MnO <sub>2</sub> encapsulated Fe <sub>2</sub> O <sub>3</sub> ellipsoids for lithium ion battery applications. <b>2017</b> , 720, 300-308	19
492	Porous NiO hollow quasi-nanospheres derived from a new metal-organic framework template as high-performance anode materials for lithium ion batteries. <b>2017</b> , 23, 3273-3280	36
491	Mn oxidation state controllable spinel manganese-based intergrown cathode for excellent reversible lithium storage. <b>2017</b> , 359, 295-302	12
490	Simultaneous enhancements in stability and CO tolerance of Pt electrocatalyst by double poly(vinyl pyrrolidone) coatings. <b>2017</b> , 7, 29839-29843	9
489	Large barocaloric effect and pressure-mediated electrocaloric effect in Pb <sub>0.99</sub> Nb <sub>0.02</sub> (Zr <sub>0.95</sub> Ti <sub>0.05</sub> ) <sub>0.08</sub> O <sub>3</sub> ceramics. <b>2017</b> , 100, 4902-4911	5
488	Fabrication of multi-shelled hollow Mg-modified CaCO <sub>3</sub> microspheres and their improved CO <sub>2</sub> adsorption performance. <b>2017</b> , 321, 401-411	35
487	Silicone-oil-assisted synthesis of high-quality sodium niobate nanowires. <b>2017</b> , 19, 3553-3556	3
486	Morphology-Conserved Transformations of Metal-Based Precursors to Hierarchically Porous Micro-/Nanostructures for Electrochemical Energy Conversion and Storage. <b>2017</b> , 29, 1607015	66
485	Recent advances in hierarchical three-dimensional titanium dioxide nanotree arrays for high-performance solar cells. <b>2017</b> , 5, 12699-12717	40
484	Anchoring Iodine to N-Doped Hollow Carbon Fold-Hemisphere: Toward a Fast and Stable Cathode for Rechargeable Lithium-Iodine Batteries. <b>2017</b> , 9, 20508-20518	56
483	Chemical template-assisted synthesis of monodisperse rattle-type FeO@C hollow microspheres as drug carrier. <b>2017</b> , 58, 432-441	15
482	Monodisperse hollow TiO <sub>2</sub> spheres for thermal insulation materials: Template-free synthesis, characterization and properties. <b>2017</b> , 43, 8596-8602	16
481	Self-template synthesis of hollow ellipsoid Ni-Mn sulfides for supercapacitors, electrocatalytic oxidation of glucose and water treatment. <i>Dalton Transactions</i> , <b>2017</b> , 46, 5406-5413	4-3 39
480	Nitrogen-Doped Hollow Carbon Nanospheres for High-Performance Li-Ion Batteries. <b>2017</b> , 9, 14180-14186	80
479	Hierarchical Porous Intercalation-Type V <sub>2</sub> O <sub>5</sub> as High-Performance Anode Materials for Li-Ion Batteries. <b>2017</b> , 23, 7538-7544	45
478	In situ template synthesis of hollow nanospheres assembled from NiCoS@C ultrathin nanosheets with high electrochemical activities for lithium storage and ORR catalysis. <b>2017</b> , 19, 11554-11562	40



477	Facile synthesis of NiS hierarchical hollow cubes via Ni formate frameworks for high performance supercapacitors. <b>2017</b> , 320, 22-28		98
476	Hollow porous CuO/C composite microcubes derived from metal-organic framework templates for highly reversible lithium-ion batteries. <b>2017</b> , 706, 97-102		55
475	A rapid synthesis of high surface area PdRu nanosponges: Composition-dependent electrocatalytic activity for formic acid oxidation. <b>2017</b> , 26, 703-711		16
474	Design and Synthesis of Cu@CuS Yolk-Shell Structures with Enhanced Photocatalytic Activity. <b>2017</b> , 9, 35		54
473	High capacitance and rate capability of a Ni <sub>3</sub> S <sub>2</sub> @CdS core-shell nanostructure supercapacitor. <b>2017</b> , 5, 7165-7172		103
472	Well-ordered mesoporous FeO/C composites as high performance anode materials for sodium-ion batteries. <i>Dalton Transactions</i> , <b>2017</b> , 46, 5025-5032	4-3	29
471	A novel hierarchical graphene/polyaniline hollow microsphere as electrode material for supercapacitor applications. <b>2017</b> , 52, 7969-7983		33
470	Multi-shelled hollow micro-/nanostructures: promising platforms for lithium-ion batteries. <b>2017</b> , 1, 414-430		157
469	Composite Yttrium-Carbonaceous Spheres Templated Multi-Shell YVO Hollow Spheres with Superior Upconversion Photoluminescence. <b>2017</b> , 29, 1604377		39
468	Multi-shelled ceria hollow spheres with a tunable shell number and thickness and their superior catalytic activity. <i>Dalton Transactions</i> , <b>2017</b> , 46, 1634-1644	4-3	21
467	Spherical Agglomeration of Octahedral LiNi <sub>0.5</sub> Co <sub>4</sub> Mn <sub>1.5</sub> xO <sub>4</sub> Cathode Material Prepared by a Continuous Coprecipitation Method for 5 V Lithium-Ion Batteries. <b>2017</b> , 56, 175-182		21
466	Controlled preparation and visible light photocatalytic activities of corn cob-like Au/ZnO nanorods. <b>2017</b> , 52, 3478-3489		22
465	Facile one-pot synthesis of NiCo <sub>2</sub> O <sub>4</sub> hollow spheres with controllable number of shells for high-performance supercapacitors. <b>2017</b> , 10, 405-414		57
464	1.82 wt.% Pt/N, P co-doped carbon overwhelms 20 wt.% Pt/C as a high-efficiency electrocatalyst for hydrogen evolution reaction. <b>2017</b> , 10, 238-246		73
463	Graphene nanosheet and carbon layer co-decorated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as high-performance anode material for rechargeable lithium-ion batteries. <b>2017</b> , 43, 3252-3258		11
462	Synthesis of hollow silica-sulfur composite nanospheres towards stable lithium-sulfur battery. <b>2017</b> , 23, 1091-1096		2
461	Hollow Fe <sub>3</sub> O <sub>4</sub> @DA-SO <sub>3</sub> H: an efficient and reusable heterogeneous nano-magnetic acid catalyst for synthesis of dihydropyridine and dioxodecahydroacridine derivatives. <b>2017</b> , 14, 791-801		13
460	Baize-like CeO and NiO/CeO nanorod catalysts prepared by dealloying for CO oxidation. <b>2017</b> , 28, 045602		35

459	Strategies for designing metal oxide nanostructures. <b>2017</b> , 60, 1-24		123
458	Rational Design of Sandwiched NiCo Layered Double Hydroxides Hollow Nanocages/Graphene Derived from Metal-Organic Framework for Sustainable Energy Storage. <b>2017</b> , 5, 9923-9934		59
457	Complex Nanostructures from Materials based on Metal-Organic Frameworks for Electrochemical Energy Storage and Conversion. <b>2017</b> , 29, 1703614		522
456	Urchin-like V <sub>2</sub> O <sub>3</sub> /C Hollow Nanosphere Hybrid for High-Capacity and Long-Cycle-Life Lithium Storage. <b>2017</b> , 5, 11238-11245		30
455	Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. <b>2017</b> , 26, 1067-1076		124
454	Solution-processed nitrogen-rich graphene-like holey conjugated polymer for efficient lithium ion storage. <b>2017</b> , 41, 117-127		128
453	Multishelled CaO Microspheres Stabilized by Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> for Enhanced CO Capture Performance. <b>2017</b> , 29, 1702896		66
452	Nitrogen and oxygen dual-doped hollow carbon nanospheres derived from catechol/polyamine as sulfur hosts for advanced lithium sulfur batteries. <b>2017</b> , 124, 23-33		67
451	CuO hollow microspheres self-assembled with nanobars: Synthesis and their sensing properties to formaldehyde. <b>2017</b> , 144, 272-280		27
450	Pt-Pd nanodendrites as oxygen reduction catalyst in polymer-electrolyte-membrane fuel cell. <b>2017</b> , 42, 25234-25243		25
449	Hierarchical bilayered hybrid nanostructural arrays of NiCoO micro-urchins and nanowires as a free-standing electrode with high loading for high-performance lithium-ion batteries. <i>Nanoscale</i> , <b>2017</b> , 9, 14979-14989	7-7	28
448	Chelation Competition Induced Polymerization (CCIP): A Binding Energy Based Strategy for Nonspherical Polymer Nanocontainers Fabrication. <b>2017</b> , 29, 6536-6543		17
447	Designing of a spatially separated hetero-junction pseudobrookite (Fe <sub>2</sub> TiO <sub>5</sub> -TiO <sub>2</sub> ) yolk-shell hollow spheres as efficient photocatalyst for water oxidation reaction. <b>2017</b> , 219, 30-35		41
446	Assembling hollow carbon sphere-graphene polyolithic aerogels for thermoelectric cells. <b>2017</b> , 39, 470-477		54
445	Rational Design of Three-Layered TiO <sub>2</sub> @Carbon@MoS <sub>2</sub> Hierarchical Nanotubes for Enhanced Lithium Storage. <b>2017</b> , 29, 1702724		257
444	Formation of Septuple-Shelled (Co Mn) <sub>2</sub> O <sub>4</sub> Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <b>2017</b> , 29, 1700550		108
443	Recent Progress in the Applications of Vanadium-Based Oxides on Energy Storage: from Low-Dimensional Nanomaterials Synthesis to 3D Micro/Nano-Structures and Free-Standing Electrodes Fabrication. <b>2017</b> , 7, 1700547		117
442	Colloidal Rings by Site-Selective Growth on Patchy Colloidal Disc Templates. <b>2017</b> , 56, 9807-9811		20

441	TEOA-mediated formation of hollow core-shell structured CoNi <sub>2</sub> S <sub>4</sub> nanospheres as a high-performance electrode material for supercapacitors. <b>2017</b> , 362, 123-130	16
440	Bio-Nanotechnology in High-Performance Supercapacitors. <b>2017</b> , 7, 1700592	126
439	Colloidal Rings by Site-Selective Growth on Patchy Colloidal Disc Templates. <b>2017</b> , 129, 9939-9943	6
438	Advanced Porous Carbon Materials for High-Efficient Lithium Metal Anodes. <b>2017</b> , 7, 1700530	160
437	Multi-dimensional micro-/nano-reactor spheres for sustainable water treatment. <b>2017</b> , 7, 5550-5561	5
436	Cobalt-Manganese Mixed-Sulfide Nanocages Encapsulated by Reduced Graphene Oxide: In Situ Sacrificial Template Synthesis and Superior Lithium Storage Properties. <b>2017</b> , 12, 2284-2290	6
435	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. <b>2017</b> , 39, 647-653	162
434	Fabrication of double-shelled Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> boxes from CeO <sub>2</sub> -modified Prussian blue and their enhanced performances for CO removal and water treatment. <b>2017</b> , 725, 544-556	19
433	Rational design of multi-shelled CoO/Co <sub>9</sub> S <sub>8</sub> hollow microspheres for high-performance hybrid supercapacitors. <b>2017</b> , 5, 18448-18456	78
432	One-step hydrothermal synthesis of hollow ZnO microspheres with enhanced performance for polyacrylate. <b>2017</b> , 112, 270-277	13
431	Optimization of the Photoanode of CdS Quantum Dot-Sensitized Solar Cells Using Light-Scattering TiO <sub>2</sub> Hollow Spheres. <b>2017</b> , 46, 6769-6783	19
430	Preparation of Hierarchical MnCo <sub>2</sub> S <sub>4</sub> Nanotubes for High-Performance Supercapacitors and Non-Enzymatic Glucose Sensors. <b>2017</b> , 2, 11154-11159	19
429	Self-generated hollow NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanocubes decorated with graphene as a large capacity and long lifetime anode for sodium-ion batteries. <b>2017</b> , 7, 56743-56751	17
428	Porous Si/C composite as anode materials for high-performance rechargeable lithium-ion battery. <b>2017</b> , 28, 2281-2284	13
427	Condensing Vapor Phase Polymerization (CVPP) of Electrochemically Capacitive and Stable Polypyrrole Microtubes. <b>2017</b> , 9, 41496-41504	13
426	A new general approach to synthesizing filled and yolk-shell structured metal oxide microspheres by applying a carbonaceous template. <i>Nanoscale</i> , <b>2017</b> , 9, 17991-17999	7-7 19
425	Formation of Hierarchical InS-CdInS Heterostructured Nanotubes for Efficient and Stable Visible Light CO Reduction. <b>2017</b> , 139, 17305-17308	418
424	A Synthetic Protocol for Preparation of Binary Multi-shelled Hollow Spheres and Their Enhanced Oxidation Application. <b>2017</b> , 29, 10104-10112	38

423	Graphene Aerogel Templated Fabrication of Phase Change Microspheres as Thermal Buffers in Microelectronic Devices. <b>2017</b> , 9, 41323-41331	51
422	Hierarchical Mn <sub>3</sub> O <sub>4</sub> Microplates Composed of Stacking Porous Nanosheets for High-Performance Lithium Storage. <b>2017</b> , 4, 2703-2708	7
421	Gel polymer electrolyte based on polyethylene glycol composite lignocellulose matrix with higher comprehensive performances. <b>2017</b> , 247, 505-515	27
420	Piezoelectric Composites: Fabrication, Characterization, and Its Application as Sensor. <b>2017</b> , 195-215	1
419	Colloidal particles with complex microstructures via phase separation in swelled polymer microspheres. <b>2017</b> , 53, 8649-8652	20
418	3D NiO hollow sphere/reduced graphene oxide composite for high-performance glucose biosensor. <b>2017</b> , 7, 5220	84
417	Silica-Assisted Assembly for Synthesis of Nitrogen-Doped Hollow Mesoporous Carbon Spheres as Supercapacitors. <b>2017</b> , 164, A1918-A1923	13
416	Cobalt Phosphonates as Precatalysts for Water Oxidation: Role of Pore Size in Catalysis. <b>2017</b> , 23, 12519-12526	1
415	Pt-embedded-CeO <sub>2</sub> hollow spheres for enhancing CO oxidation performance. <b>2017</b> , 1, 1754-1763	21
414	Nano Metal-Organic Framework-Derived Inorganic Hybrid Nanomaterials: Synthetic Strategies and Applications. <b>2017</b> , 23, 5631-5651	80
413	Rambutan-like hierarchically heterostructured CeO <sub>2</sub> -CuO hollow microspheres: Facile hydrothermal synthesis and applications. <b>2017</b> , 10, 381-396	22
412	Heterostructured bismuth vanadate multi-shell hollow spheres with high visible-light-driven photocatalytic activity. <b>2017</b> , 86, 44-50	40
411	Fast synthesis of porous NiCo <sub>2</sub> O <sub>4</sub> hollow nanospheres for a high-sensitivity non-enzymatic glucose sensor. <b>2017</b> , 396, 804-811	85
410	Progress of rechargeable lithium metal batteries based on conversion reactions. <b>2017</b> , 4, 54-70	102
409	Synthesis of Uniquely Structured SnO <sub>2</sub> Hollow Nanoplates and Their Electrochemical Properties for Li-Ion Storage. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603399	15.6 81
408	Multishelled Ni-Rich Li(Ni Co Mn )O Hollow Fibers with Low Cation Mixing as High-Performance Cathode Materials for Li-Ion Batteries. <b>2017</b> , 4, 1600262	145
407	A one-dimensional porous carbon-supported Ni/MoC dual catalyst for efficient water splitting. <b>2017</b> , 8, 968-973	301
406	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 166-175	35.4 98

405	Controlled one-step synthesis of CdS@ZnS core-shell particles for efficient photocatalytic hydrogen evolution. <b>2017</b> , 42, 2924-2930		24
404	Nitrogen-doped hollow carbon spheres for supercapacitors. <b>2017</b> , 52, 3153-3161		19
403	Formation of Onion-Like NiCo S Particles via Sequential Ion-Exchange for Hybrid Supercapacitors. <b>2017</b> , 29, 1605051		453
402	Electrochemical performances of graphene nanoribbons interlacing hollow NiCo oxide nanocages. <b>2017</b> , 19, 1		4
401	Surface Free Energy-Induced Assembly to the Synthesis of Grid-Like Multicavity Carbon Spheres with High Level In-Cavity Encapsulation for Lithium Sulfur Cathode. <b>2017</b> , 7, 1701518		43
400	Electrocatalysts Prepared by Galvanic Replacement. <b>2017</b> , 7, 80		74
399	Preparation of MnO <sub>2</sub> /porous carbon material with core-shell structure and its application in supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 7957-7964	2.1	5
398	Co <sub>3</sub> O <sub>4</sub> and its composites for high-performance Li-ion batteries. <b>2018</b> , 343, 427-446		71
397	Synthesis of Engineered Zeolitic Materials: From Classical Zeolites to Hierarchical Core-Shell Materials. <b>2018</b> , 30, e1704439		75
396	Preparation of Hollow CeO <sub>2</sub> /CePO <sub>4</sub> with Nitrogen and Phosphorus Co-Doped Carbon Shells for Enhanced Oxygen Reduction Reaction Catalytic Activity. <b>2018</b> , 5, 793-798		29
395	Ni and Co doped yolk-shell type Fe <sub>2</sub> O <sub>3</sub> hollow microspheres as anode materials for lithium-ion batteries. <b>2018</b> , 211, 452-461		14
394	Oxygen vacancy derived local build-in electric field in mesoporous hollow Co <sub>3</sub> O <sub>4</sub> microspheres promotes high-performance Li-ion batteries. <b>2018</b> , 6, 6967-6976		173
393	Hollow spheres: crucial building blocks for novel nanostructures and nanophotonics. <b>2018</b> , 7, 693-713		12
392	Glucose-mediated template-free synthesis of hollow CuO microspheres.. <b>2018</b> , 8, 14157-14163		4
391	High-capacity activated carbon anode material for lithium-ion batteries prepared from rice husk by a facile method. <b>2018</b> , 86, 139-145		34
390	Biomass-Based Nitrogen-Doped Hollow Carbon Nanospheres Derived Directly from Glucose and Glucosamine: Structural Evolution and Supercapacitor Properties. <b>2018</b> , 6, 7380-7389		45
389	A self-template and self-activation co-coupling green strategy to synthesize high surface area ternary-doped hollow carbon microspheres for high performance supercapacitors. <b>2018</b> , 524, 165-176		40
388	Hollow ZIFs-derived nanoporous carbon for efficient capacitive deionization. <b>2018</b> , 273, 34-42		56

387	Superior electrochemical properties of micron-sized aggregates of (Co <sub>0.5</sub> Fe <sub>0.5</sub> ) <sub>3</sub> O <sub>4</sub> hollow nanospheres and graphitic carbon. <b>2018</b> , 346, 351-360		5
386	A Bottle-around-a-Ship Method To Generate Hollow Thin-Shelled Particles Containing Encapsulated Iron Species with Application to the Environmental Decontamination of Chlorinated Compounds. <b>2018</b> , 10, 13542-13551		5
385	Heterogeneous NiS/NiO multi-shelled hollow microspheres with enhanced electrochemical performances for hybrid-type asymmetric supercapacitors. <b>2018</b> , 6, 9153-9160		76
384	Interfacing Photosynthetic Membrane Protein with Mesoporous WO Photoelectrode for Solar Water Oxidation. <b>2018</b> , 14, e1800104		11
383	Silver nitrate nanosheet supported on porous carbon three-dimensional substrate as cathode material and its lithium storage mechanism. <b>2018</b> , 810, 255-262		3
382	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. <b>2018</b> , 4, 972-996		410
381	Multifunctional Hollow Shell Microspheres Derived from Cross-Linking of MnO <sub>2</sub> Nanoneedles by Zirconium-Based Coordination Polymer: Enzyme Mimicking, Micromotors, and Protein Immobilization. <b>2018</b> , 30, 1625-1634		25
380	V <sub>2</sub> O <sub>5</sub> -Based nanomaterials: synthesis and their applications. <b>2018</b> , 8, 4014-4031		83
379	Formation of multi-shelled nickel-based sulfide hollow spheres for rechargeable alkaline batteries. <b>2018</b> , 5, 535-540		56
378	Highly stable SnO-FeO-C hollow spheres for reversible lithium storage with extremely long cycle life. <i>Nanoscale</i> , <b>2018</b> , 10, 4370-4376	7-7	38
377	Hierarchically porous hexagonal microspheres constructed by well-interwoven MCo <sub>2</sub> S <sub>4</sub> (M = Ni, Fe, Zn) nanotube networks via two-step anion-exchange for high-performance asymmetric supercapacitors. <b>2018</b> , 45, 439-447		91
376	Mesostructured niobium-doped titanium oxide-carbon (Nb-TiO <sub>2</sub> -C) composite as an anode for high-performance lithium-ion batteries. <b>2018</b> , 378, 225-234		35
375	A facile strategy to fabricate hollow cadmium sulfide nanospheres with nanoparticles-textured surface for hexavalent chromium reduction and bacterial inactivation. <b>2018</b> , 514, 396-406		23
374	High-performance asymmetric supercapacitors based on reduced graphene oxide/polyaniline composite electrodes with sandwich-like structure. <b>2018</b> , 34, 1103-1109		25
373	Sphalerite Cu/ZnS Nanoparticles Derived from Cu/Zn-ZIF-8 for the Photocatalytic Degradation and Adsorption of Dyes. <b>2018</b> , 2018, 1038-1046		4
372	Synthesis of open helmet-like carbon skeletons for application in lithium-ion batteries. <b>2018</b> , 6, 3877-3883		22
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347	Rationally regulating complex dielectric parameters of mesoporous carbon hollow spheres to carry out efficient microwave absorption. <b>2018</b> , 127, 643-652	222
346	Hydrothermal synthesis and photoluminescent properties of hierarchical GdPO <sub>4</sub> ·H <sub>2</sub> O:Ln <sup>3+</sup> (Ln <sup>3+</sup> = Eu <sup>3+</sup> , Ce <sup>3+</sup> , Tb <sup>3+</sup> ) flower-like clusters. <b>2018</b> , 483, 44-51	3
345	Well-Dispersed Vanadium Nitride on Porous Carbon Networks Derived from Block Copolymer of PAN-b-PDMC-b-PAN Absorbed with Ammonium Metavanadate for Energy Storage Application. <b>2018</b> , 122, 143-149	12
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343	Thermal annealing-driven surface sealing of polymeric bowl. <b>2018</b> , 135, 338-347	5
342	Three-dimensional macroporous CNTs microspheres highly loaded with NiCo <sub>2</sub> O <sub>4</sub> hollow nanospheres showing excellent lithium-ion storage performances. <b>2018</b> , 128, 191-200	34
341	Selective Low-Energy Carbon Dioxide Adsorption Using Monodisperse Nitrogen-Rich Hollow Carbon Submicron Spheres. <b>2018</b> , 34, 30-35	17
340	Noble metal-free metal-organic framework-derived onion slice-type hollow cobalt sulfide nanostructures: Enhanced activity of CdS for improving photocatalytic hydrogen production. <b>2018</b> , 224, 230-238	75
339	Construction of multi-shelled Bi <sub>2</sub> WO <sub>6</sub> hollow microspheres with enhanced visible light photo-catalytic performance. <b>2018</b> , 99, 331-335	26
338	Calcination temperature dependent structural modifications, tailored morphology and luminescence properties of MoO <sub>3</sub> nanostructures prepared by sonochemical method. <b>2018</b> , 3, 77-85	11
337	Scalable and general synthesis of spinel manganese-based cathodes with hierarchical yolk-shell structure and superior lithium storage properties. <b>2018</b> , 11, 246-253	13
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335	General and facile synthesis of hollow metal oxide nanoparticles coupled with graphene nanomesh architectures for highly efficient lithium storage. <b>2018</b> , 6, 23856-23864	16
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332	Clean Block Copolymer Microparticles from Supercritical CO: Universal Templates for the Facile and Scalable Fabrication of Hierarchical Mesoporous Metal Oxides. <b>2018</b> , 18, 7560-7569	10
331	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. <b>2018</b> , 140, 16676-16684	53
330	Construction of Multishelled Binary Metal Oxides via Coabsorption of Positive and Negative Ions as a Superior Cathode for Sodium-Ion Batteries. <b>2018</b> , 140, 17114-17119	65
329	A novel porous carbon material derived from the byproducts of bean curd stick manufacture for high-performance supercapacitor use.. <b>2018</b> , 8, 39937-39947	21
328	Synthesis and Supercapacitance of Co <sub>3</sub> O <sub>4</sub> Supported on Porous Carbon Derived from Wheat Flour. <b>2018</b> , 7, M161-M165	5
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326	Monolayer Transition-Metal Dichalcogenide Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> Alloys as Efficient Anode Materials for Lithium-Ion Batteries. <b>2018</b> , 122, 25837-25848	18
325	Hierarchical Carbon Micro/Nanonet with Superior Electrocatalysis for High-Rate and Endurable Vanadium Redox Flow Batteries. <b>2018</b> , 5, 1801281	21
324	Double-shelled hollow hetero-MnCo <sub>2</sub> S <sub>4</sub> /CoS <sub>1.097</sub> spheres with carbon coating for advanced supercapacitors. <b>2018</b> , 408, 65-73	43
323	Synthesis and characterization of core-shell HgO/C colloids and hollow carbon nanospheres by chemical vapor deposition and investigation of its conductivity properties. <b>2018</b> , 84, 95-103	0
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318	Fabrication of hollow carbon spheres with robust and significantly enhanced capacitance behaviors. <b>2018</b> , 53, 12310-12321	7
317	Probing buckling and post-buckling deformation of hollow amorphous carbon nanospheres: In-situ experiment and theoretical analysis. <b>2018</b> , 137, 411-418	13
316	Facile Synthesis of Nitrogen-Doped Mesoporous Hollow Carbon Nanospheres for High-Performance Supercapacitors. <b>2018</b> , 5, 2242-2249	14

315	Growth and characterization of porous sp <sup>2</sup> -BN films with hollow spheres under hydrogen etching effect via borazane thermal CVD. <b>2018</b> , 452, 314-321	1
314	All-solid-state high-energy asymmetric supercapacitor based on natural tubular fibers. <b>2018</b> , 53, 11659-11670	10
313	Engineering surface states and band edge of TiO <sub>2</sub> microspheres by tuning pH value of hydrothermal treatment. <b>2018</b> , 283, 1231-1237	1
312	Synthesis of bimetallic CoNi-CoNiO <sub>2</sub> nanoparticles embedded into mesoporous carbon as high-performance catalysts for supercapacitor electrode. <b>2018</b> , 272, 222-231	7
311	Synthesis of hierarchical tube-like yolk-shell Co <sub>3</sub> O <sub>4</sub> @NiMoO <sub>4</sub> for enhanced supercapacitor performance. <b>2018</b> , 43, 14569-14577	49
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309	Synthesis and application of nanocages in supercapacitors. <b>2018</b> , 351, 135-156	43
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307	Investigation of the Enhanced Lithium Battery Storage in a Polyoxometalate Model: From Solid Spheres to Hollow Balls. <b>2018</b> , 2, 1800154	14
306	2.3 Boron. <b>2018</b> , 72-87	
305	Preparation and characterization of micro/nano-silver powders. <b>2018</b> ,	2
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303	Judd-Olfelt analysis, photoluminescence and photocatalytic properties of core-shell SiO <sub>2</sub> @TiO <sub>2</sub> :Eu <sup>3+</sup> nanospheres with different diameters. <b>2018</b> , 123, 162-171	13
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300	Designed formation of CoO/ZnCoO/CuO hollow polyhedral nanocages derived from zeolitic imidazolate framework-67 for high-performance supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 15771-15781	7-7 94
299	Black hollow TiO <sub>2</sub> nanocubes: Advanced nanoarchitectures for efficient visible light photocatalytic applications. <b>2018</b> , 238, 177-183	49
298	Gel polymer electrolyte based on polymethyl methacrylate matrix composited with methacrylisobutyl-polyhedral oligomeric silsesquioxane by phase inversion method. <b>2018</b> , 278, 1-12	37

297	Hierarchical porous CoS <sub>2</sub> microboxes for efficient oxygen evolution reaction. <b>2018</b> , 278, 219-225	40
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295	Controlled Synthesis of Carbon Nanospheres via the Modulation of the Hydrophilic Length of the Assembled Surfactant Micelles. <b>2018</b> , 34, 10389-10396	26
294	Biosynthesis of bimetallic and core-shell nanoparticles: their biomedical applications - a review. <b>2018</b> , 12, 879-887	61
293	Scalable fabrication of ZnxCd <sub>1-x</sub> S double-shell hollow nanospheres for highly efficient hydrogen production. <b>2018</b> , 239, 309-316	64
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291	Recent advancements in supercapacitor technology. <b>2018</b> , 52, 441-473	729
290	Preparation and electrochemical performance of a novel three dimensional structure of polyaniline hollow fibers decorated by graphene. <b>2018</b> , 154, 80-89	18
289	Fabrication of Hollow Co <sub>3</sub> O <sub>4</sub> Nanospheres and Their Nanocomposites of CNT and rGO as High-Performance Anodes for Lithium-Ion Batteries. <b>2018</b> , 3, 5502-5511	6
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287	Microwave energy-based manufacturing of hollow carbon nanospheres decorated with carbon nanotubes or metal oxide nanowires. <b>2018</b> , 53, 12178-12189	5
286	Novel Nanomaterials for Solar Cell Devices. <b>2018</b> , 227-277	5
285	Microwave-assisted hydrothermal synthesis of hollow flower-like Zn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> with enhanced cycling stability as electrode for lithium ion batteries. <b>2018</b> , 228, 369-371	14
284	Synthesis of Nanoporous Carbon and Their Application to Fuel Cell and Capacitor. <b>2019</b> , 135-158	
283	Tuning bimodal porosity in TiO <sub>2</sub> photoanodes towards efficient solid-state dye-sensitized solar cells comprising polysiloxane-based polymer electrolyte. <b>2019</b> , 273, 226-234	12
282	Stress evolution with concentration-dependent compositional expansion in a silicon lithium-ion battery anode particle. <b>2019</b> , 23, 2331-2342	8
281	Template-Assisted Self-Sulfuration Formation of MoS <sub>2</sub> Nanosheets Embedded in Ordered Mesoporous Carbon for Lithium Storage. <b>2019</b> , 2, 6158-6162	5
280	In situ formation of metal-organic framework derived CuO polyhedrons on carbon cloth for highly sensitive non-enzymatic glucose sensing. <b>2019</b> , 7, 4990-4996	23

279	Indium sulfide nanotubes with sulfur vacancies as an efficient photocatalyst for nitrogen fixation.. <b>2019</b> , 9, 21646-21652		25
278	Hollow multi-shelled structures for energy conversion and storage applications. <b>2019</b> , 6, 2239-2259		20
277	Sandwich-Like Ultrathin TiS <sub>2</sub> Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. <b>2019</b> , 9, 1901872		119
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275	Reversibly compressible and freestanding monolithic carbon spherogels. <b>2019</b> , 153, 189-195		4
274	Molecular Design Strategies for Electrochemical Behavior of Aromatic Carbonyl Compounds in Organic and Aqueous Electrolytes. <b>2019</b> , 6, 1900431		62
273	Ethanol sensing behavior of Pd-nanoparticles decorated ZnO-nanorod based chemiresistive gas sensors. <b>2019</b> , 298, 126850		76
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267	Beauty of Slope Land: Strategies and Practice of Slope Landscape Planning. <b>2019</b> , 310, 022067		
266	Formation of NiMoS <sub>3</sub> Hollow Material with Enhanced Activity in Slurry-phase Hydrogenation of Heavy Oil. <b>2019</b> , 33, 10933-10940		4
265	Coordination polymer derived general synthesis of multi-shelled hollow metal oxides for lithium-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 17478-17484	7.7	8
264	Morphological transformation of calcium phenylphosphonate microspheres induced by micellization of $\beta$ -polyglutamic acid. <b>2019</b> , 556, 33-46		1
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259	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Long-Term Stability of Lithium-Sulfur Batteries. <b>2019</b> , 15, e1804578	22
258	Biomass-Derived Carbonaceous Materials: Recent Progress in Synthetic Approaches, Advantages, and Applications. <b>2019</b> , 7, 4564-4585	111
257	A unique nanosheet assembled CoMn <sub>2</sub> O <sub>4</sub> hollow nanospheres as superior cyclability anode materials for lithium-ion batteries. <b>2019</b> , 786, 428-433	5
256	Enhancing photocatalytic activity of tantalum nitride by rational suppression of bulk, interface and surface charge recombination. <b>2019</b> , 246, 195-201	31
255	Hollow carbon shells enhanced by confined ruthenium as cost-efficient and superior catalysts for the alkaline hydrogen evolution reaction. <b>2019</b> , 7, 6676-6685	45
254	Salt-templated growth of monodisperse hollow nanostructures. <b>2019</b> , 7, 1404-1409	23
253	Mesoporous nickel cobalt manganese sulfide yolk-shell hollow spheres for high-performance electrochemical energy storage. <b>2019</b> , 6, 1851-1860	53
252	Rational construction of MoS <sub>2</sub> /Mo <sub>2</sub> N/C hierarchical porous tubular nanostructures for enhanced lithium storage. <b>2019</b> , 7, 23886-23894	22
251	Hierarchically porous structured carbon derived from peanut shell as an enhanced high rate anode for lithium ion batteries. <b>2019</b> , 492, 464-472	17
250	Facile template-free synthesis of hierarchically porous NiO hollow architectures with high-efficiency adsorptive removal of Congo red. <b>2019</b> , 26, 1743-1753	3
249	Hollow Multishelled Structures for Promising Applications: Understanding the Structure-Performance Correlation. <b>2019</b> , 52, 2169-2178	110
248	Controllable synthesis of 3D Fe <sub>3</sub> O <sub>4</sub> micro-cubes as anode materials for lithium ion batteries. <b>2019</b> , 21, 5050-5058	4
247	Branched titania nanostructures for efficient energy conversion and storage: A review on design strategies, structural merits and multifunctionalities. <b>2019</b> , 62, 791-809	24
246	Core-Shell and Hollow Particles of Carbon and SiC Prepared from Hydrochar. <b>2019</b> , 12,	1
245	Hollow Multi-Shelled Structural TiO <sub>2</sub> with Multiple Spatial Confinement for Long-Life Lithium-Sulfur Batteries. <b>2019</b> , 58, 9078-9082	100
244	Hollow Multi-Shelled Structural TiO <sub>2</sub> with Multiple Spatial Confinement for Long-Life Lithium-Sulfur Batteries. <b>2019</b> , 131, 9176-9180	33

243	Confined Interfacial Monomicelle Assembly for Precisely Controlled Coating of Single-Layered Titania Mesopores. <b>2019</b> , 1, 527-538		50
242	Advances in nanostructures fabricated via spray pyrolysis and their applications in energy storage and conversion. <b>2019</b> , 48, 3015-3072		182
241	The Size Effect of TiO Hollow Microspheres on Photovoltaic Performance of ZnS/CdS Quantum Dots Sensitized Solar Cell. <b>2019</b> , 12,		9
240	Nitrogen-doped hollow carbon spheres as chemical vapour sensors. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 8418-8427	3.6	14
239	Hierarchical nickel-cobalt phosphide hollow spheres embedded in P-doped reduced graphene oxide towards superior electrochemistry activity. <b>2019</b> , 149, 222-233		68
238	Design of Mn-doped $Cd_xZn_{1-x}Se@ZnO$ triple-shelled hollow microspheres for quantum dots sensitized solar cells with improved photovoltaic performance. <b>2019</b> , 184, 315-322		9
237	Synergistic effect of heat treatment and concentration of polydopamine enhance the electrochemical performances of hollow nitrogen-doped carbon microspheres. <b>2019</b> , 25, 4685-4701		6
236	Controlled synthesis of MOF-derived quadruple-shelled $CoS_2$ hollow dodecahedrons as enhanced electrodes for supercapacitors. <b>2019</b> , 312, 54-61		47
235	Versatile template-free construction of hollow nanostructured $CeO_2$ induced by functionalized carbon materials. <b>2019</b> , 7, 12008-12017		12
234	ZIF-67 with Argon annealing treatment for visible light responsive degradation of organic dyes in a wide pH range. <b>2019</b> , 285, 13-20		24
233	Designing an asymmetric device based on graphene wrapped yolk-double shell $NiGa_2S_4$ hollow microspheres and graphene wrapped $FeS_2@FeSe_2$ core-shell cratered spheres with outstanding energy density. <b>2019</b> , 7, 10282-10292		72
232	Core-shell nanomaterials: Applications in energy storage and conversion. <b>2019</b> , 267, 26-46		73
231	Facile synthesis of hierarchical $CoMoO_4@Ni(OH)_2$ core-shell nanotubes for bifunctional supercapacitors and oxygen electrocatalysts. <b>2019</b> , 789, 684-692		13
230	Visible-Light-Induced Nanoparticle Assembly for Effective Hydrogen Photogeneration. <b>2019</b> , 7, 7286-7293		7
229	Intrinsic lithium storage mechanisms and superior electrochemical behaviors of monodispersed hierarchical $CoCO_3$ sub-microspheroids as a competitive anode towards Li-ion batteries. <b>2019</b> , 307, 20-29		20
228	Solution Self-Assembly of an Alternating Copolymer toward Hollow Carbon Nanospheres with Uniform Micropores. <b>2019</b> , 8, 331-336		20
227	Controlling the dispersion of $Co_3O_4$ nanoparticles inside mesoporous nanorattle catalysts. <b>2019</b> , 125, 6-9		3
226	Highly efficient photocatalytic hydrogen evolution from water-soluble conjugated polyelectrolytes. <b>2019</b> , 60, 775-783		51

225	The controlled synthesis of complex hollow nanostructures and prospective applications. <b>2019</b> , 475, 20180677	19
224	Approaches to Enhancing Gas Sensing Properties: A Review. <b>2019</b> , 19,	66
223	Hollow TiO <sub>2</sub> submicrospheres assembled by tiny nanocrystals as superior anode for lithium ion battery. <b>2019</b> , 7, 23733-23738	12
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218	Ni-Co-MoS <sub>x</sub> ball-in-ball hollow nanospheres as Pt-free bifunctional catalysts for high-performance solar cells and hydrogen evolution reactions. <b>2019</b> , 368, 202-211	42
217	Co <sub>2</sub> TuWS <sub>x</sub> ball-in-ball nanospheres as high-performance Pt-free bifunctional catalysts in efficient dye-sensitized solar cells and alkaline hydrogen evolution. <b>2019</b> , 7, 6337-6347	38
216	Synthesis of ZnCdSe@ZnO Hollow Spheres in Different Sizes for Quantum Dots Sensitized Solar Cells Application. <b>2019</b> , 9,	15
215	The general construction of asymmetric bowl-like hollow nanostructures by grafting carbon-sheathed ultrasmall iron-based compounds onto carbon surfaces for use as superior anodes for sodium-ion hybrid capacitors. <b>2019</b> , 7, 24199-24204	26
214	Hollow Structures Based on Prussian Blue and Its Analogs for Electrochemical Energy Storage and Conversion. <b>2019</b> , 31, e1706825	293
213	Architecture and Preparation of Hollow Catalytic Devices. <b>2019</b> , 31, e1801104	76
212	Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures. <b>2019</b> , 31, e1801564	33
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210	Crystal facets-predominated oxygen evolution reaction activity of earth abundant CoMoO <sub>4</sub> electrocatalyst. <b>2019</b> , 781, 460-466	21
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208	Synthesis and electrochemical performance of carbon-coated Fe <sub>2</sub> GeO <sub>4</sub> as an anode material for sodium-ion batteries. <b>2019</b> , 224, 129-136	7

207	Triple-Shelled Manganese-Cobalt Oxide Hollow Dodecahedra with Highly Enhanced Performance for Rechargeable Alkaline Batteries. <b>2019</b> , 58, 996-1001	76
206	Triple-Shelled Manganese-Cobalt Oxide Hollow Dodecahedra with Highly Enhanced Performance for Rechargeable Alkaline Batteries. <b>2019</b> , 131, 1008-1013	16
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203	MoS <sub>2</sub> /NiS Yolk-Shell Microsphere-Based Electrodes for Overall Water Splitting and Asymmetric Supercapacitor. <b>2019</b> , 15, e1803639	134
202	Designed formation of NiCo <sub>2</sub> O <sub>4</sub> with different morphologies self-assembled from nanoparticles for asymmetric supercapacitors and electrocatalysts for oxygen evolution reaction. <b>2019</b> , 296, 719-729	57
201	Robust hexagonal nut-shaped titanium(IV) MOF with porous structure for ultra-high performance lithium storage. <b>2019</b> , 296, 746-754	38
200	Hollow Multishelled Structure of Heterogeneous Co <sub>3</sub> O <sub>4</sub> @FeO <sub>2</sub> Nanocomposite for CO Catalytic Oxidation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806588	15.6 55
199	Rationally designed hybrids of NiCo <sub>2</sub> O <sub>4</sub> and polymeric carbon nitride as faradaic electrodes with enhanced electrochemical performance. <b>2019</b> , 299, 717-726	15
198	One pot facile synthesis of carbonaceous gel via thiol-epoxy click reaction as potential electrode material for supercapacitor. <b>2019</b> , 248, 81-87	5
197	A review of performance optimization of MOF-derived metal oxide as electrode materials for supercapacitors. <b>2019</b> , 43, 697-716	79
196	Charge carrier trapping, recombination and transfer during TiO <sub>2</sub> photocatalysis: An overview. <b>2019</b> , 335, 78-90	199
195	Hollow nanoshell of layered double oxides for removal of 2,4-dichlorophenol from aqueous solution: Synthesis, characterization, and adsorption performance study. <b>2019</b> , 561, 244-253	18
194	Partial self-sacrificing templates synthesis of sandwich-like mesoporous C N@Fe <sub>3</sub> O <sub>4</sub> @C N hollow spheres for high-performance Li-ion batteries. <b>2019</b> , 44, 1816-1826	9
193	Structural design and material preparation of carbon-based electrodes for high-performance lithium storage systems. <b>2019</b> , 144, 127-146	15
192	Hollow Micro/Nanostructured Ceria-Based Materials: Synthetic Strategies and Versatile Applications. <b>2019</b> , 31, e1800592	45
191	Sequential Templating Approach: A Groundbreaking Strategy to Create Hollow Multishelled Structures. <b>2019</b> , 31, e1802874	110
190	Controllable and scalable synthesis of hollow-structured porous aromatic polymer for selective adsorption and separation of HMF from reaction mixture of fructose dehydration. <b>2019</b> , 358, 467-479	18



189	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <b>2019</b> , 31, e1801993	224
188	An exact solution on gold microbeam with thermoelastic damping via generalized Green-Naghdi and modified couple stress theories. <b>2020</b> , 43, 157-174	21
187	Hollow Micro- and Nanomaterials: Synthesis and Applications. <b>2020</b> , 1-38	4
186	Lattice Distortion in Hollow Multi-Shelled Structures for Efficient Visible-Light CO <sub>2</sub> Reduction with a SnS <sub>2</sub> /SnO <sub>2</sub> Junction. <b>2020</b> , 132, 731-734	31
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184	Hierarchical hollow carbon spheres: Novel synthesis strategy, pore structure engineering and application for micro-supercapacitor. <b>2020</b> , 157, 70-79	59
183	Enhanced-absorption template method for preparation of double-shell NiO hollow nanospheres with controllable particle size for nanothermite application. <b>2020</b> , 379, 122330	16
182	Construction of sugar gourd-like yolk-shell NiMoCo nanocage arrays for high-performance alkaline battery. <b>2020</b> , 25, 105-113	26
181	Controlled synthesis and CO sensing potentials of size-tunable highly-uniform mesoporous Co <sub>3</sub> O <sub>4</sub> nanospheres. <b>2020</b> , 816, 152524	4
180	In Situ Construction of Multibuffer Structure 3D CoSn@SnO <sub>x</sub> /CoO <sub>x</sub> @C Anode Material for Ultralong Life Lithium Storage. <b>2020</b> , 8, 1900829	7
179	Efficient enhancement of electrochemiluminescence from tin disulfide quantum dots by hollow titanium dioxide spherical shell for highly sensitive detection of chloramphenicol. <b>2020</b> , 147, 111790	23
178	Ag-doped hollow ZIFs-derived nanoporous carbon for efficient hybrid capacitive deionization. <b>2020</b> , 473, 114173	21
177	Hierarchical hollow-structured anode for high-rate sodium-ion battery. <b>2020</b> , 283, 121159	3
176	Formation of graphene-wrapped multi-shelled NiGaO hollow spheres and graphene-wrapped yolk-shell NiFeO hollow spheres derived from metal-organic frameworks for high-performance hybrid supercapacitors. <i>Nanoscale</i> , <b>2020</b> , 12, 1643-1656	7-7 73
175	Anion replacement in silver chlorobromide nanocubes: two distinct hollowing mechanisms. <b>2020</b> , 4, 524-531	2
174	The application of hollow micro-/nanostructured cathodes for sodium-ion batteries. <b>2020</b> , 4, 1289-1303	21
173	Controllable Synthesis of Hollow Multishell Structured Co <sub>3</sub> O <sub>4</sub> with Improved Rate Performance and Cyclic Stability for Supercapacitors. <b>2020</b> , 36, 68-73	39
172	B <sub>2</sub> O <sub>3</sub> @BPO <sub>4</sub> sandwich-like hollow spheres as metal-free supported liquid-phase catalysts. <b>2020</b> , 381, 599-607	18

171	Hydrogen sulfide conversion: How to capture hydrogen and sulfur by photocatalysis. <b>2020</b> , 42, 100339	22
170	Synthesis of porous carbon hollow particles maintaining their structure using hyper-cross-linked Poly(St-DVB) hollow particles. <b>2020</b> , 31, 614-620	3
169	Highly conductive Mn <sub>3</sub> O <sub>4</sub> /MnS heterostructures building multi-shelled hollow microspheres for high-performance supercapacitors. <b>2020</b> , 392, 123890	29
168	Encapsulating metal organic framework into hollow mesoporous carbon sphere as efficient oxygen bifunctional electrocatalyst. <b>2020</b> , 7, 609-619	58
167	An Interfacial Electron Transfer on Tetrahedral NiS /NiSe Heterocages with Dual-Phase Synergy for Efficiently Triggering the Oxygen Evolution Reaction. <b>2020</b> , 16, e1905083	67
166	Metal-organic frameworks-derived hierarchical ZnO structures as efficient sensing materials for formaldehyde detection. <b>2020</b> , 31, 2071-2076	18
165	Hierarchical trimetallic layered double hydroxide nanosheets derived from 2D metal-organic frameworks for enhanced oxygen evolution reaction. <b>2020</b> , 264, 118532	38
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163	High-performance electrode material for electric double-layer capacitor based on hydrothermal pre-treatment of lignin by ZnCl <sub>2</sub> . <b>2020</b> , 508, 144536	20
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161	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 848-858	35.4 158
160	Nanopiezoelectric Devices for Energy Generation Based on ZnO Nanorods/Flexible-Conjugated Copolymer Hybrids Using All Wet-Coating Processes. <b>2019</b> , 11,	3
159	Bio-mass derived ultrahigh-energy storage porous graphitic carbon for advanced anode material in lithium battery. <b>2020</b> , 242, 122543	8
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157	Microalgae-Templated Spray Drying for Hierarchical and Porous FeO/C Composite Microspheres as Li-ion Battery Anode Materials. <b>2020</b> , 10,	4
156	Highly Active Zinc Sulfide Composite Microspheres: A Versatile Template for Synthesis of a Family of Hollow Nanostructures of Sulfides. <b>2020</b> , 36, 1523-1529	9
155	Current Trends in Nanomaterials for Metal Oxide-Based Conductometric Gas Sensors: Advantages and Limitations. Part 1: 1D and 2D Nanostructures. <b>2020</b> , 10,	30
154	Construction of Double-Shell Hollow TiO <sub>2</sub> toward Solvent-Free Polyurethane Films. <b>2020</b> , 59, 15271-15282	1

153	Spinel-Type Materials Used for Gas Sensing: A Review. <b>2020</b> , 20,	15
152	Fabrication of CdS Frame-in-Cage Particles for Efficient Photocatalytic Hydrogen Generation under Visible-Light Irradiation. <b>2020</b> , 32, e2004561	53
151	Carbon-Encapsulated Iron Oxide Nanoparticles in Self-Supporting Carbon Nanofiber for High-Performance Supercapacitor in Acid Electrolyte with Superior Stability. <b>2020</b> , 3, 12652-12661	7
150	Effective thermal conductivity modeling of hollow nanosphere packing structures. <b>2020</b> , 161, 120298	6
149	W <sub>Ni</sub> /C@Co <sub>9</sub> S <sub>8</sub> @WS <sub>2</sub> -hollow carbon nanocage as multifunctional electrocatalysts for DSSCS,ORR and OER. <b>2020</b> , 351, 136249	14
148	CoSe hollow microspheres with superior oxidase-like activity for ultrasensitive colorimetric biosensing. <b>2020</b> , 216, 121009	9
147	Hollow Micro-/Nanostructure Reviving Lithium-sulfur Batteries. <b>2020</b> , 36, 313-319	48
146	Multi-shelled Ni <sub>6</sub> MnO <sub>8</sub> hollow microspheres for high-performance supercapacitors. <b>2020</b> , 7, 065502	3
145	Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting. <b>2020</b> , 20, 100692	19
144	Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO. <b>2020</b> , 49, 2937-3004	201
143	A polypyrrole/black-TiO <sub>2</sub> /S double-shelled composite fixing polysulfides for lithium-sulfur batteries. <b>2020</b> , 353, 136529	19
142	Core-Shell and Yolk-Shell Covalent Organic Framework Nanostructures with Size-Selective Permeability. <b>2020</b> , 1, 100062	17
141	Investigation on the oxide-oxide galvanic displacement reactions employed in the preparation of electrocatalytic layers. <b>2020</b> , 341, 136056	5
140	In-situ construction of hierarchical structure with 1D MnCo <sub>2</sub> S <sub>4</sub> interpenetrate 3D Co <sub>9</sub> S <sub>8</sub> hollow polyhedrons towards high performance hybrid supercapacitors. <b>2020</b> , 111, 198-204	5
139	Ni or FeO nanocrystal-integrated hollow (solid) N-doped carbon nanospheres: preparation, characterization and electrochemical properties. <i>Nanoscale</i> , <b>2020</b> , 12, 15157-15168	7-7 5
138	Aggregation of Silica Nanoparticles in Sol-Gel Processes to Create Optical Coatings with Controllable Ultralow Refractive Indices. <b>2020</b> , 12, 16887-16895	9
137	Turning the activity of Cr <sub>2</sub> O <sub>3</sub> mixed oxide towards thermocatalytic NO oxidation and photocatalytic CO <sub>2</sub> reduction via the formation of yolk shell structure hollow microspheres. <b>2020</b> , 829, 154508	9
136	Advances in Layered Double Hydroxide/Carbon Nanocomposites Containing Ni <sup>2+</sup> and Co <sup>2+/3+</sup> for Supercapacitors. <b>2020</b> , 7,	10

135	Operando Identification of the Chemical and Structural Origin of Li-Ion Battery Aging at Near-Ambient Temperature. <b>2020</b> , 142, 13406-13414		8
134	Hollow multishelled structures revive high energy density batteries. <b>2020</b> , 5, 1287-1292		13
133	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. <b>2020</b> , 132, 19831-19836		
132	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. <b>2020</b> , 59, 19663-19668		17
131	Multi-shelled cobalt-nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. <i>Dalton Transactions</i> , <b>2020</b> , 49, 10918-10927	4.3	6
130	Electrospun fibrous active bimetallic electrocatalyst for hydrogen evolution. <b>2020</b> , 45, 21502-21511		10
129	The preparation of hollow Fe <sub>3</sub> O <sub>4</sub> /Pd@C NCs to stabilize subminiature Pd nanoparticles for the reduction of 4-nitrophenol. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4869-4876	3.6	7
128	Hollow multishell structures exercise temporal/spatial ordering and dynamic smart behaviour. <b>2020</b> , 4, 159-168		83
127	Recent progress in the syntheses and applications of multishelled hollow nanostructures. <b>2020</b> , 4, 1105-1149		33
126	Selective combination of highly porous hollow structured bimetallic spinel oxides with improved redox chemistry for electrochemical hybrid capacitor. <b>2020</b> , 27, 405-417		30
125	Green synthesis of polypyrrole tubes using curcumin template for excellent electrochemical performance in supercapacitors. <b>2020</b> , 8, 3186-3202		39
124	Hollow mesoporous silica with a hierarchical shell from in situ synergistic soft-hard double templates. <i>Nanoscale</i> , <b>2020</b> , 12, 10863-10871	7.7	9
123	Self-propelled nanoemulsion assembly of organosilane to the synthesis of high-surface-area hollow carbon spheres for enhanced energy storage. <b>2020</b> , 400, 124973		10
122	Multi-shelled CoS <sub>2</sub> /MoS <sub>2</sub> hollow spheres as efficient bifunctional electrocatalysts for overall water splitting. <b>2020</b> , 45, 13290-13299		22
121	Black Phosphorus/Hollow Porous Carbon for High Rate Performance Lithium-Ion Battery. <b>2020</b> , 7, 2184-2189		7
120	General formation of Prussian blue analogue microtubes for high-performance Na-ion hybrid supercapacitors. <b>2020</b> , 63, 739-747		20
119	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. <b>2021</b> , 11, 2001537		47
118	Recent progress in copper sulfide based nanomaterials for high energy supercapacitor applications. <b>2021</b> , 880, 114825		15

117	Robust and sensitive pressure/strain sensors from solution processable composite hydrogels enhanced by hollow-structured conducting polymers. <b>2021</b> , 403, 126307	55
116	Morphology-controlled synthesis of one-dimensional zinc molybdate nanorods for high-performance pseudocapacitor electrode application. <b>2021</b> , 75, 1715-1726	0
115	Preparation of hollow mesoporous carbon spheres by pyrolysis-deposition using surfactant as carbon precursor. <b>2021</b> , 484, 229274	4
114	Small Structures Bring Big Things: Performance Control of Hollow Multishelled Structures. <b>2021</b> , 2, 2000041	23
113	In-situ formation of Co <sub>1-x</sub> S hollow polyhedrons anchored on multichannel carbon nanofibers as self-supporting anode for lithium/sodium-ion batteries. <b>2021</b> , 421, 127755	17
112	Hierarchical self-supporting sugar gourd-shape MOF-derived NiCoO hollow nanocages@SiC nanowires for high-performance flexible hybrid supercapacitors. <b>2021</b> , 586, 219-232	26
111	Sb-doped SnO <sub>2</sub> (ATO) hollow submicron spheres for solar heat insulation coating. <b>2021</b> , 47, 547-555	9
110	Immobilized molybdic acid on porous silica-alumina hollow sphere particles for acid-promoted hydrolytic hydrogen evolution from ammonia borane. <b>2021</b> , 46, 6659-6668	1
109	Design of hollow carbon-based materials derived from metal-organic frameworks for electrocatalysis and electrochemical energy storage. <b>2021</b> , 9, 3880-3917	41
108	Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. <b>2021</b> , 9, 3151-3179	7
107	Systematically controlled synthesis of shape-selective ZnO superstructures via sonochemical process. <b>2021</b> , 263, 114887	3
106	Synthesis of Fe <sub>2</sub> O <sub>3</sub> double-layer hollow spheres with carbon coating using carbonaceous sphere templates for lithium ion battery anodes. <b>2021</b> , 25, 267-278	1
105	Cobalt Chalcogenides/Cobalt Phosphides/Cobaltates with Hierarchical Nanostructures for Anode Materials of Lithium-Ion Batteries: Improving the Lithiation Environment. <b>2021</b> , 17, e1903418	9
104	Recent Trends in Template Assisted 3D Porous Materials for Electrochemical Supercapacitors.	5
103	Engineering nanoreactors for metal-chalcogen batteries. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 540-575	35.4 26
102	Synthesis of ZnO core/shell hollow microspheres to boost light harvesting capability in quantum dots-sensitized solar cell. <b>2021</b> , 764, 138283	5
101	Application of Carbon Materials in Aqueous Zinc Ion Energy Storage Devices. <b>2021</b> , 17, e2100219	16
100	Chemical Vapor Deposition Synthesis and Characterization of Hollow Carbon Nanospheres with High Specific Capacitance and Excellent Cycling Stability. <b>2021</b> , 50, 2922-2931	

99	Preparation of molecularly imprinted hollow TiO <sub>2</sub> microspheres for selective photocatalysis. <b>2021</b> , 5, 100071		5
98	Triple-shell NiO hollow sphere for p-type dye-sensitized solar cell with superior light harvesting. <b>2021</b> , 216, 238-244		3
97	Hierarchical Co and Nb dual-doped MoS <sub>2</sub> nanosheets shelled micro-TiO <sub>2</sub> hollow spheres as effective multifunctional electrocatalysts for HER, OER, and ORR. <b>2021</b> , 82, 105750		63
96	Metal Nano/Microparticles for Bioapplications. <b>2021</b> , 22,		
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86	Template-free single-step preparation of hollow CoO nanospheres using pulsed laser ablation in liquid environment. <b>2021</b> , 14, 103317		6
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84	Hollow and substrate-supported Prussian blue, its analogs, and their derivatives for green water splitting. <b>2021</b> , 42, 1843-1864		4
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