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Formation of hollow nanocrystals through the nanoscale Kirkendall effect

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1771	Selective Synthesis of Peapodlike Ni/Ni3S2 Nanochains and Nickel Sulfide Hollow Chains and Their Magnetic Properties. <b>2010</b> , 20, 3678-3683	82
1770	Plasma-assisted approaches in inorganic nanostructure fabrication. <b>2010</b> , 22, 1451-73	137
1769	Hydrophilic Co@Au yolk/shell nanospheres: synthesis, assembly, and application to gene delivery. <b>2010</b> , 22, 1407-11	137
1768	Soft template synthesis of yolk/silica shell particles. <b>2010</b> , 22, 1516-20	186
1767	Room-temperature formation of hollow Cu(2)O nanoparticles. <b>2010</b> , 22, 1910-4	278
1766	Controlled synthesis of one-dimensional inorganic nanostructures using pre-existing one-dimensional nanostructures as templates. <b>2010</b> , 22, 3925-37	197
1765	Facile and controllable synthesis of monodisperse CaF2 and CaF2:Ce3+/Tb3+ hollow spheres as efficient luminescent materials and smart drug carriers. <b>2010</b> , 16, 5672-80	117
1764	Hierarchical hollow Co9S8 microspheres: solvothermal synthesis, magnetic, electrochemical, and electrocatalytic properties. <b>2010</b> , 16, 12000-7	173

1763	Seed-mediated synthesis of Au nanocages and their electrocatalytic activity towards glucose oxidation. <b>2010</b> , 16, 9248-56	38
1762	Imaging the oxidation of ZnS encapsulated in carbon nanotubes. <b>2010</b> , 16, 11809-12	5
1761	Nanopartikulæ Funktionsmaterialien. <b>2010</b> , 122, 1402-1437	95
1760	Kolloidale Hybridnanostrukturen: ein neuer Typ von Funktionsmaterialien. <b>2010</b> , 122, 4996-5016	69
1759	Diffusion-Facilitated Fabrication of Gold-Decorated Zn2SiO4 Nanotubes by a One-Step Solid-State Reaction. <b>2010</b> , 122, 1484-1488	5
1758	Synthesis of Cu2O Nanoframes and Nanocages by Selective Oxidative Etching at Room Temperature. <b>2010</b> , 122, 4378-4381	36
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1756	Nanoparticulate functional materials. <b>2010</b> , 49, 1362-95	567
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1753	Synthesis of Cu2O nanoframes and nanocages by selective oxidative etching at room temperature. <b>2010</b> , 49, 4282-5	209
1752	Monodisperse yolk-shell nanoparticles with a hierarchical porous structure for delivery vehicles and nanoreactors. <b>2010</b> , 49, 4981-5	510
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1750	One-pot hydrothermal synthesis of CeO2 hollow microspheres. <b>2010</b> , 312, 426-430	17
1749	One-pot hydrothermal synthesis and enhanced photocatalytic activity of trifluoroacetic acid modified TiO2 hollow microspheres. <b>2010</b> , 326, 8-14	60
1748	Engineering the Properties of Metal Nanostructures via Galvanic Replacement Reactions. <b>2010</b> , 70, 44-62	166
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1746	Apparent kinetics of hydriding and dehydriding of metal nanoparticles. <b>2010</b> , 42, 1482-1486	5

1745	Effect of pretreatment on PtIIo/C cathode catalysts for the oxygen reduction reaction. <b>2010</b> , 35, 3280-3286	33
1744	One step from ZnO rod to ZnS porous tube. <b>2010</b> , 175, 195-200	19
1743	Using sonochemistry for the fabrication of hollow ZnO microspheres. <b>2010</b> , 17, 284-7	48
1742	Fabrication of porous BaSnO3 hollow architectures using BaCO3@SnO2 core⊞hell nanorods as precursors. <b>2010</b> , 257, 197-202	23
1741	Fundamental understanding of deactivation and regeneration of cobalt Fischer Tropsch synthesis catalysts. <b>2010</b> , 154, 271-282	259
1740	Deactivation of cobalt based Fischer Tropsch catalysts: A review. <b>2010</b> , 154, 162-182	438
1739	Colloidal chemical approaches to inorganic micro- and nanostructures with controlled morphologies and patterns. <b>2010</b> , 254, 1054-1071	66
1738	Nanostructures Enabled by On-Wire Lithography (OWL). <b>2010</b> , 486, 89-98	33
1737	Porous Co3O4 nanoplatelets by self-supported formation as electrode material for lithium-ion batteries. <b>2010</b> , 55, 4805-4811	52
1736	Sn-based nanomaterials converted from SnS nanobelts: Facile synthesis, characterizations, optical properties and energy storage performances. <b>2010</b> , 56, 243-250	82
1735	Controlled positioning of large interfacial nanocavities via stress-engineered void localization. <b>2010</b> , 6, 1603-7	25
1734	Long-range chemical interaction in solid-state synthesis: The Kirkendall effect and solid-state reactions in Cu/ECuZn and Cu/Fe/ECuZn film systems. <b>2010</b> , 91, 665-669	3
1733	The Fabrication and Progress of Hollow Structures. <b>2010</b> , 18, 227-235	
1732	Fabrication of Hollow Nano Particles of Metallic Oxides through Oxidation Process. <b>2010</b> , 638-642, 67-72	2
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1730	One-step synthesis of MgO hollow nanospheres with blue emission. <b>2010</b> , 21, 295604	21
1729	Formation of Hollow and Porous Nanostructures of Iron Oxides via Oxidation of Iron Nanoparticles and Nanowires. <b>2010</b> , 658, 197-200	
1728	Production of hollow hemisphere shells by pure Kirkendall porosity formation in Au/Ag system. <b>2010</b> , 97, 113109	30

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1726	Determination of Local Oxidations States in Ni-NiO Core-shell Structures Using White Line Intensity Ratios. <b>2010</b> , 16, 1458-1459	
1725	Nonequilibrium Vacancies and Diffusion-Controlled Processes at Nanolevel. <b>2010</b> , 11-35	
1724	Synthesis. <b>2010</b> , 99-168	
1723	The Preparation of Monodisperse Cationic Polystyrene and its Application to the Synthesis of Hollow Silica Spheres. <b>2010</b> , 63, 1418	2
1722	Facile synthesis of hollow nano-spheres and hemispheres of cobalt by polyol reduction. <b>2010</b> , 21, 375602	14
1721	Voids, nanochannels and formation of nanotubes with mobile Sn fillings in Sn doped ZnO nanorods. <b>2010</b> , 21, 225604	10
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1719	Nanowire transformation by size-dependent cation exchange reactions. <b>2010</b> , 10, 149-55	74
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1717 1716	Development of a transferable reactive force field for cobalt. <b>2010</b> , 114, 5855-61  Nestlike Hollow Hierarchical MCM-22 Microspheres: Synthesis and Exceptional Catalytic Properties. <b>2010</b> , 22, 2757-2763  Alternating Silica/Polymer Multilayer Hybrid Microspheres Templates for Double-shelled Polymer	33
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1709	Method for Heavy Metal Ion Removal and Catalysis. <b>2010</b> , 114, 9865-9870	254
1708	One-step synthesis of superparamagnetic monodisperse porous Fe3O4 hollow and core-shell spheres. <b>2010</b> , 20, 1799	277
1707	Hydrothermal transformation from Au core-sulfide shell to Au nanoparticle-decorated sulfide hybrid nanostructures. <b>2010</b> , 2, 1650-2	21
1706	Modified Kirkendall effect for fabrication of magnetic nanotubes. <b>2010</b> , 46, 1899-901	36
1705	Engineering nonspherical hollow structures with complex interiors by template-engaged redox etching. <b>2010</b> , 132, 16271-7	223
1704	General synthesis of 2D ordered hollow sphere arrays based on nonshadow deposition dominated colloidal lithography. <b>2010</b> , 26, 6295-302	41
1703	Preparation of hollow spheres with controllable interior structures by heterogeneous contraction. <b>2010</b> , 46, 6605-7	162
1702	Synthesis of Vertically Aligned Hollow Platinum Nanotubes with Single Crystalline Nanoflakes. <b>2010</b> , 22, 2681-2684	49
1701	Fabrication of Monodisperse CeO2 Hollow Spheres Assembled by Nano-octahedra. <b>2010</b> , 10, 291-295	117
1700	TiO2 and SnO2@TiO2 hollow spheres assembled from anatase TiO2 nanosheets with enhanced lithium storage properties. <b>2010</b> , 46, 8252-4	176
1699	Capillary force induced formation of monodisperse polystyrene/silica organic-inorganic hybrid hollow spheres. <b>2010</b> , 26, 14271-5	93
1698	Synthesis and colloidal polymerization of ferromagnetic Au-Co nanoparticles into Au-Co3O4 nanowires. <b>2010</b> , 132, 3234-5	104
1697	Nanosize-Controlled Syntheses of Indium Metal Particles and Hollow Indium Oxide Particles via the Sputter Deposition Technique in Ionic Liquids. <b>2010</b> , 22, 5209-5215	54
1696	Recent Progress in Fabrication of Hollow Nanostructures. <b>2010</b> , 3-30	
1695	Direct access to metal or metal oxide nanocrystals integrated with one-dimensional nanoporous carbons for electrochemical energy storage. <b>2010</b> , 132, 15030-7	136
1694	Large-area aligned branched Cu(2)S nanostructure arrays: room-temperature synthesis and growth mechanism. <b>2010</b> , 21, 215602	29
1693	Band gap and composition engineering on a nanocrystal (BCEN) in solution. <b>2010</b> , 43, 1387-95	100
1692	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. <b>2010</b> , 20, 4595	199

1691	Synthesis of platinum cubes, polypods, cuboctahedrons, and raspberries assisted by cobalt nanocrystals. <b>2010</b> , 10, 964-73	126
1690	Hollow nanoparticles of metal oxides and sulfides: fast preparation via laser ablation in liquid. <b>2010</b> , 26, 16652-7	106
1689	Fabrication and photoluminescence properties of hollow Gd2O3:Ln (Ln = Eu3+, Sm3+) spheres via a sacrificial template method. <b>2010</b> , 12, 3717	63
1688	Colloidosome-based synthesis of a multifunctional nanostructure of silver and hollow iron oxide nanoparticles. <b>2010</b> , 26, 4184-7	62
1687	Synthesis of ZnO nanotubes and nanotube-nanorod hybrid hexagonal networks using a hexagonally close-packed colloidal monolayer template. <b>2010</b> , 20, 5136	18
1686	One-Pot Synthesis of Hollow PbSe Single-Crystalline Nanoboxes via Gas Bubble Assisted Ostwald Ripening. <b>2010</b> , 10, 1257-1262	27
1685	Selective synthesis of $Zn(1 - x)Mn(x)Se$ nanobelts and nanotubes from $[Zn(1 - x)Mn(x)Se](DETA)0.5$ nanbelts in solution (x = 0-0.15) and their EPR and optical properties. <b>2010</b> , 26, 12882-9	12
1684	Platinum-centered yolk-shell nanostructure formation by sacrificial nickel spacers. <b>2010</b> , 26, 16469-73	28
1683	Synthesis and Characterization of Size-Controlled TiO2 Microspheres with Wormhole Mesoporous Structure. <b>2010</b> , 25, 990-993	7
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1671	Synthesis and characterization of shape-controlled Ni0.5Zn0.5Fe2O4 via the coprecipitation method. <b>2010</b> , 495, 63-66	9
1670	The porous CuO electrode fabricated by hydrogen bubble evolution and its application to highly sensitive non-enzymatic glucose detection. <b>2010</b> , 80, 1371-7	114
1669	Chemical transformations in ultrathin chalcogenide nanowires. <b>2010</b> , 4, 2307-19	192
1668	Pd nanoparticles in silica hollow spheres with mesoporous walls: a nanoreactor with extremely high activity. <b>2010</b> , 46, 6524-6	262
1667	Nanoscale advances in catalysis and energy applications. <b>2010</b> , 10, 2289-95	345
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1665	Catalytic reduction of NO2 with hydrogen on Pt field emitter tips: kinetic instabilities on the nanoscale. <b>2010</b> , 26, 16381-91	19
1664	Synthesis of Sn doped CuO nanotubes from core-shell Cu/SnO(2) nanowires by the Kirkendall effect. <b>2010</b> , 21, 295601	17
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1662	Wet chemical synthesis and thermoelectric properties of V-VI one- and two-dimensional nanostructures. <b>2010</b> , 39, 993-1004	26
1661	Postchemistry of organic particles: when TTF microparticles meet TCNQ microstructures in aqueous solution. <b>2010</b> , 132, 6926-8	113
1660	Cellular uptake, cytotoxicity, and innate immune response of silica-titania hollow nanoparticles based on size and surface functionality. <b>2010</b> , 4, 5301-13	207
1659	Silica nanosphere-supported shaped Pd nanoparticles encapsulated with nanoporous silica shell: Efficient and recyclable nanocatalysts. <b>2010</b> , 20, 7834	67
1658	Ligand-assisted fabrication of hollow CdSe nanospheres via Ostwald ripening and their microwave absorption properties. <b>2010</b> , 2, 2619-23	39
1657	Epitaxial growth of shape-controlled Bi2Te3-Te heterogeneous nanostructures. <b>2010</b> , 132, 17316-24	83
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1654	Capillary-force-induced formation of luminescent polystyrene/(rare-earth-doped nanoparticle) hybrid hollow spheres. <b>2010</b> , 2, 2733-7	42
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1651	Structural evolution of Pd-doped nanoscale zero-valent iron (nZVI) in aqueous media and implications for particle aging and reactivity. <b>2010</b> , 44, 4288-94	140
1650	Magnetically vectored nanocapsules for tumor penetration and remotely switchable on-demand drug release. <b>2010</b> , 10, 5088-92	124
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1639	Mesoporous Ni-B amorphous alloy microspheres with tunable chamber structure and enhanced hydrogenation activity. <b>2010</b> , 46, 791-3	46
1638	Novel synthesis of bismuth tungstate hollow nanospheres in water-ethanol mixed solvent. <b>2010</b> , 46, 7250-2	45

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1637	Ligand-Tuned Shape Control, Oriented Assembly, and Electrochemical Characterization of Colloidal ZnTe Nanocrystals. <b>2010</b> , 22, 4632-4641	29
1636	Surface diffusion driven nanoshell formation by controlled sintering of mesoporous nanoparticle aggregates. <b>2010</b> , 2, 1423-5	23
1635	Ni@SiO2 yolk-shell nanoreactor catalysts: High temperature stability and recyclability. <b>2010</b> , 20, 1239-1246	196
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1628	Low-temperature self-catalytic growth of tin oxide nanocones over large areas. <b>2011</b> , 5, 5800-7	35
1627	Organosilane-Assisted Transformation from CoreBhell to YolkBhell Nanocomposites. 2011, 23, 3676-3684	129
1626	Fabrication of hollow cubic Ag microboxes with net-like nanofiber structures and their surface plasmon resonance. <b>2011</b> , 13, 204-211	7
1625	Morphological conversion of dipolar corelinell Aulto nanoparticles into beaded Aulto3O4 nanowires. <b>2011</b> , 21, 14163	14
1624	Facile one-pot synthesis of yolk-shell superparamagnetic nanocomposites via ternary phase separations. <b>2011</b> , 47, 10350-2	21
1623	Sculpting fabrication of nanocrater catalysts and exclusive control of wall numbers and diameters in carbon nanotubes. <b>2011</b> , 21, 15175	2
1622	Making Pt-shell Pt30Ni70 nanowires by mild dealloying and heat treatments with little Ni loss. <b>2011</b> , 21, 6225	24
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1610	Controlled synthesis and tunable properties of hematite hierarchical structures in a dual-surfactant system. <b>2011</b> , 13, 1998-2005	7
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1607	Controllable synthesis of corellhell Co@CoO nanocomposites with a superior performance as an anode material for lithium-ion batteries. <b>2011</b> , 21, 18279	96
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1605	Polyelectrolyte-templated synthesis of bimetallic nanoparticles. <b>2011</b> , 27, 8494-9	14
1604	Effective octadecylamine system for nanocrystal synthesis. <b>2011</b> , 50, 5196-202	57
1603	Facile Synthesis of Mesoporous TiO2Spheres with Hollow Interiors. <b>2011</b> , 159, P8-P13	6
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1591	Cuprous oxide nanoshells with geometrically tunable optical properties. <b>2011</b> , 5, 3257-67	121
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1589	Organic-Free and Selectively Oriented Recrystallization for Design of Natisite Microstructures. <b>2011</b> , 11, 4498-4504	10
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1587	Nanopipes in In2O3 Nanorods Grown by a Thermal Treatment. <b>2011</b> , 11, 1117-1121	25
1586	Ligand-Coated Vanadium Oxide Clusters: Capturing Gas-Phase Magic Numbers in Solution. <b>2011</b> , 115, 6438-6447	23
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1580	A Facile Chemical Conversion Synthesis of ZnO/ZnS Core/Shell Nanorods and Diverse Metal Sulfide Nanotubes. <b>2011</b> , 115, 6415-6422	98
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1574	Dopant induced hollow BaTiO3 nanostructures for application in high performance capacitors. <b>2011</b> , 21, 16500	99
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1572	Synthesis and self-assembly of complex hollow materials. <b>2011</b> , 21, 7511	133
1571	Ultrasonic Spray Pyrolysis Fabrication of Solid and Hollow PbWO4 Spheres with Structure-Directed Photocatalytic Activity. <b>2011</b> , 115, 241-247	42
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1568	Selective sulfuration at the corner sites of a silver nanocrystal and its use in stabilization of the shape. <b>2011</b> , 11, 3010-5	86
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1563	Colloidal Polymerization of Polymer-Coated Ferromagnetic Cobalt Nanoparticles into Pt-Co3O4 Nanowires. <b>2011</b> , 23, 1120-1129	44
1562	Hybrid nanorattles of metal core and stimuli-responsive polymer shell for confined catalytic reactions. <b>2011</b> , 2, 1368	63
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1552	Thermal Evolution of Pt-Rich FePt/Fe3O4 Heterodimers Studied Using X-ray Absorption Near-Edge Spectroscopy. <b>2011</b> , 115, 5500-5508	25
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1541	Cobalt-based magnetic nanocomposites: fabrication, fundamentals and applications. <b>2011</b> , 44, 393001		29
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1	482	Preparation of functional magnetic nanocomposites and hybrid materials: recent progress and future directions. <b>2011</b> , 3, 877-92	195
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1	479	Nanovoids in thermoelectric EZn4Sb3: A possibility for nanoengineering via Zn diffusion. <b>2011</b> , 59, 5266-5275	32
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1444	Characterization of Ag and Au nanoparticles created by nanosecond pulsed laser ablation in double distilled water. <b>2011</b> , 257, 5278-5282	28
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1412	General synthetic strategy for high-yield and uniform rare-earth oxysulfate (RE2O2SO4, RE = La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Y, Ho, and Yb) hollow spheres. <b>2012</b> , 2, 9362	26
1411	Binder-free and carbon-free nanoparticle batteries: a method for nanoparticle electrodes without polymeric binders or carbon black. <b>2012</b> , 12, 5122-30	114
1410	Formation of Fe2O3 microboxes with hierarchical shell structures from metal-organic frameworks and their lithium storage properties. <b>2012</b> , 134, 17388-91	841
1409	Terahertz plasmon and surface-plasmon modes in hollow nanospheres. <b>2012</b> , 7, 578	3
1408	Synthesis of Inorganic Nanoparticles. <b>2012</b> , 4, 35-79	17
1407	Fe2O3/TiO2 tube-like nanostructures: synthesis, structural transformation and the enhanced sensing properties. <b>2012</b> , 4, 665-71	91
1406	Metallic double shell hollow nanocages: the challenges of their synthetic techniques. <b>2012</b> , 28, 4051-9	82
1405	Co3O4 Nanocages for High-Performance Anode Material in Lithium-Ion Batteries. <b>2012</b> , 116, 7227-7235	374
1404	Palladium/tin bimetallic single-crystalline hollow nanospheres. <b>2012</b> , 48, 1683-5	19

1403	A regenerable oxide-based H2S adsorbent with nanofibrous morphology. <b>2012</b> , 7, 810-5	40
1402	One-pot synthesis of cubic PtCu3 nanocages with enhanced electrocatalytic activity for the methanol oxidation reaction. <b>2012</b> , 134, 13934-7	531
1401	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. <b>2012</b> , 4, 2526-42	915
1400	Co/CoO nanoparticles assembled on graphene for electrochemical reduction of oxygen. <b>2012</b> , 51, 11770-3	364
1399	Co/CoO Nanoparticles Assembled on Graphene for Electrochemical Reduction of Oxygen. <b>2012</b> , 124, 11940-11943	126
1398	Synthesis and characterization of $Pd@M(x)Cu(1-x)$ (M = Au, Pd, and Pt) nanocages with porous walls and a yolk-shell structure through galvanic replacement reactions. <b>2012</b> , 18, 14974-80	55
1397	Controlled synthesis of monodisperse SiO(2)TiO(2) microspheres with a yolk-shell structure as effective photocatalysts. <b>2012</b> , 5, 2334-40	30
1396	Controlled Fabrication of Uniform Hollow Bowl-Shaped Microspheres Based on Polyphosphazene Material. <b>2012</b> , 213, 2606-2610	3
1395	Template-assisted synthesis of single-crystalline Mn3O4 nanoframes and hollow octahedra. <b>2012</b> , 14, 1462-1466	8
1394	Silver nanoparticles generated by pulsed laser ablation in supercritical CO2 medium. <b>2012</b> , 32, 60-66	17
1393	Template-free hydrothermal synthesis of VO2 hollow microspheres. <b>2012</b> , 14, 3858	34
1392	One-pot synthesis of responsive catalytic Au@PVP hybrid nanogels. <b>2012</b> , 48, 11751-3	50
1391	Synthesis of rattle-type SnO2 structures with porous shells. <b>2012</b> , 22, 18111	47
1390	A DRIFTS study of CO adsorption and hydrogenation on Cu-based core@hell nanoparticles. <b>2012</b> , 2, 621	37
1389	CeO2Al2O3, CeO2BiO2, CeO2IIiO2 core-shell spheres: formation mechanisms and UV absorption. <b>2012</b> , 2, 5370	23
1388	Hierarchical magnetic yolkEhell microspheres with mixed barium silicate and barium titanium oxide shells for microwave absorption enhancement. <b>2012</b> , 22, 9277	76
1387	CuAu alloy nanotubes with five-fold twinned structure and their application in surface-enhanced Raman scattering. <b>2012</b> , 22, 18192	49
1386	Facile preparation of carbon-supported PtNi hollow nanoparticles with high electrochemical performance. <b>2012</b> , 22, 8820	60

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1385	Direct observation of melting behaviors at the nanoscale under electron beam and heat to form hollow nanostructures. <b>2012</b> , 4, 4702-6	25
1384	Mechanochemical Continuum Modeling of Nanovoid Nucleation and Growth in Reacting Nanoparticles. <b>2012</b> , 116, 54-62	14
1383	Advanced bimetallic Intu/Ag/Au nanostructures via microemulsion-based reaction. 2012, 2, 9473	19
1382	Plasmon-Assisted Enhancement of the Ultraweak Chemiluminescence Using Cu/Ni Metal Nanoparticles. <b>2012</b> , 116, 14796-14803	31
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1380	Template-free synthesis of monodisperse #e2O3 porous ellipsoids and their application to gas sensors. <b>2012</b> , 14, 2229	27
1379	Temperature-dependent formation and shrinkage of hollow shells in hemispherical Ag/Pd nanoparticles. <b>2012</b> , 92, 3806-3812	12
1378	Shape-controlled synthesis of TiO2 hollow structures and their application in lithium batteries. <b>2012</b> , 22, 1969-1976	90
1377	Twins in polyhedral 26-facet Cu7S4 cages: synthesis, characterization and their enhancing photochemical activities. <b>2012</b> , 41, 3214-22	30
1376	Seed-catalyzed heteroepitaxial growth and nonlinear optical properties of zinc selenide nanowires. <b>2012</b> , 22, 10009	26
1375	Fabrication of coenocytic Pd@CdS nanocomposite as a visible light photocatalyst for selective transformation under mild conditions. <b>2012</b> , 22, 5042	121
1374	Bottom-up assembly of hierarchical Cu2O nanospheres: controllable synthesis, formation mechanism and enhanced photochemical activities. <b>2012</b> , 14, 3545	47
1373	Simplifying the growth of hybrid single-crystals by using nanoparticle precursors: the case of AgI. <b>2012</b> , 4, 2713-9	13
1372	Comment on Mechanochemical Continuum Modeling of Nanovoid Nucleation and Growth in Reacting Nanoparticles <b>2012</b> , 116, 12989-12990	1
1371	Galvanically replaced hollow Au-Ag nanospheres: study of their surface plasmon resonance. <b>2012</b> , 28, 6670-6	68
1370	Size-Dependent Room Temperature Oxidation of In Nanoparticles. <b>2012</b> , 116, 20574-20578	31
1369	Structures and Mechanisms in the Growth of Hybrid Rullu2S Nanoparticles: From Cages to Nanonets. <b>2012</b> , 24, 1822-1827	33
1368	Molten-droplet synthesis of composite CdSe hollow nanoparticles. <b>2012</b> , 23, 495605	9

1367	Aqueous-phase reactions on hollow silica-encapsulated semiconductor nanoheterostructures. <b>2012</b> , 134, 8754-7	34
1366	Synthesis of [email[protected]2 Nanotube Particles in a Water-in-Oil Microemulsion Template. <b>2012</b> , 24, 2635-2644	59
1365	Multitemplates for the hierarchical synthesis of diverse inorganic materials. 2012, 134, 2325-31	63
1364	Preparation of non-spherical hollow carbon nanocapsules from nickel nanoprecursors. <b>2012</b> , 14, 1221-1225	6
1363	A study of the galvanic replacement reaction at surfaces and the role of lateral charge propagation. <b>2012</b> , 606, L5-L9	15
1362	Yolk-shell nanocrystal@ZIF-8 nanostructures for gas-phase heterogeneous catalysis with selectivity control. <b>2012</b> , 134, 14345-8	528
1361	Formation of CdSe/CdS/ZnS-Au/SiO2 dual-yolk/shell nanostructures through a Trojan-type inside-out etching strategy. <b>2012</b> , 5, 654-666	20
1360	Gas sensing with hollow Fe2O3 urchin-like spheres prepared via template-free hydrothermal synthesis. <b>2012</b> , 14, 8335	37
1359	Cubic nickel frames: one-pot synthesis, magnetic properties and application in water treatment. <b>2012</b> , 14, 7616	21
1358	Exploiting nanoparticles as precursors for novel nanostructure designs and properties. <b>2012</b> , 14, 7535	27
1357	Fluoride-free self-templated synthesis of hollow TiO2 nanostructures for hydrogen evolution. <b>2012</b> , 14, 4274	22
1356	Action of bimetallic nanocatalysts under reaction conditions and during catalysis: evolution of chemistry from high vacuum conditions to reaction conditions. <b>2012</b> , 41, 7980-93	118
1355	Synthesis of Carbon Nitride Semiconductors in Sulfur Flux for Water Photoredox Catalysis. <b>2012</b> , 2, 940-948	337
1354	Methanol Decomposition over Palladium Particles Supported on Silica: Role of Particle Size and Co-Feeding Carbon Dioxide on the Catalytic Properties. <b>2012</b> , 2, 1013-1019	31
1353	Hollow mesoporous aluminosilica spheres with perpendicular pore channels as catalytic nanoreactors. <b>2012</b> , 6, 4434-44	236
1352	Facile one-pot synthesis of Eu, N-codoped mesoporous titania microspheres with yolk-shell structure and high visible-light induced photocatalytic performance. <b>2012</b> , 435-436, 86-92	33
1351	General strategy for one-pot synthesis of metal sulfide hollow spheres with enhanced photocatalytic activity. <b>2012</b> , 125, 180-188	69
1350	Synthesis, characterization of core⊠hell carbon-coated CaSnO3 nanotubes and their performance as anode of lithium ion battery. <b>2012</b> , 258, 6177-6183	20

1349	Anatase TiO2 hollow microspheres with exposed {001} facets: Facile synthesis and enhanced photocatalysis. <b>2012</b> , 258, 5863-5868	63
1348	Synthesis and new structure shaping mechanism of silica particles formed at high pH. <b>2012</b> , 194, 277-281	11
1347	A rapid solvothermal synthesis of cerium oxide hollow spheres and characterization. <b>2012</b> , 194, 43-47	7
1346	Preparation and characteristics of core⊠hell F-doped □Fe2O3 hollow microspheres. <b>2012</b> , 88, 164-167	7
1345	Synthesis and characterization of thin shell hollow sphere NiO nanopowder via ultrasonic technique. <b>2012</b> , 86, 28-30	75
1344	Pore evolution regulation in synthesis of open pore structured TiAl intermetallic compounds by solid diffusion. <b>2012</b> , 521, 12-15	17
1343	Uniform Eu3+:CeO2 hollow microspheres formation mechanism and optical performance. <b>2012</b> , 534, 64-69	17
1342	Porous CuO superstructure: precursor-mediated fabrication, gas sensing and photocatalytic properties. <b>2012</b> , 383, 75-81	61
1341	☐Fe2O3 and Fe3O4 magnetic hierarchically nanostructured hollow microspheres: preparation, formation mechanism, magnetic property, and application in water treatment. <b>2012</b> , 385, 58-65	46
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1338	Pulsed laser ablation in liquid for micro-/nanostructure generation. <b>2012</b> , 13, 204-223	224
1337	Advanced fabrication of metal-organic frameworks: template-directed formation of polystyrene@ZIF-8 core-shell and hollow ZIF-8 microspheres. <b>2012</b> , 48, 221-3	221
1336	A "ship-in-a-bottle" approach to synthesis of polymer dots@silica or polymer dots@carbon core-shell nanospheres. <b>2012</b> , 24, 6017-21	79
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1333	A YolkBhell Nanoreactor with a Basic Core and an Acidic Shell for Cascade Reactions. <b>2012</b> , 124, 9298-9302	62
1332	Template-free hydrothermal synthesis of mesoporous MgO nanostructures and their applications in water treatment. <b>2012</b> , 7, 2650-5	12

1331	Composite Metal Dxide Nanocatalysts. <b>2012</b> , 4, 1462-1484	57
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1329	One-pot synthesis of ultra-light nickel nanofoams composed of nanowires and their transformation into various functional nanofoams. <b>2012</b> , 8, 3432-7	41
1328	Molecular dynamics simulation of surface segregation, diffusion and reaction phenomena in equiatomic Ni-Al systems. <b>2012</b> , 113, 1202-1243	8
1327	Facile synthesis of hollow Cu2O octahedral and spherical nanocrystals and their morphology-dependent photocatalytic properties. <b>2012</b> , 7, 276	70
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1324	In-Depth Microstructural Evolution Analyses of Cement-Bonded Spinel Refractory Castables: Novel Insights Regarding Spinel and CA6 Formation. <b>2012</b> , 95, 1732-1740	33
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1321	Novel CeO2 yolk-shell structures loaded with tiny Au nanoparticles for superior catalytic reduction of p-nitrophenol. <b>2012</b> , 4, 6835-40	78
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1319	Nanostructured Metal Particles for Catalysts and Energy-Related Materials. 2012, 123-201	2
1318	Real-Time Probing of the Synthesis of Colloidal Silver Nanocubes with Time-Resolved High-Energy Synchrotron X-ray Diffraction. <b>2012</b> , 116, 11842-11847	35
1317	Metal oxide nanostructures and their gas sensing properties: a review. <b>2012</b> , 12, 2610-31	767
1316	Metal-Dependent Interplay between Crystallization and Phosphorus Diffusion during the Synthesis of Metal Phosphide Nanoparticles. <b>2012</b> , 24, 4134-4145	61
1315	Hierarchical porous quaternary Cuffeßnß hollow chain microspheres: rapid microwave nonaqueous synthesis, growth mechanism, and their efficient removal of organic dye pollutant in water. <b>2012</b> , 22, 20586	48
1314	Synthesis of hollow and nanoporous gold/platinum alloy nanoparticles and their electrocatalytic activity for formic acid oxidation. <b>2012</b> , 388, 74-9	37

1313	Hydrothermal synthesis of well-aligned hierarchical TiO2 tubular macrochannel arrays with large surface area for high performance dye-sensitized solar cells. <b>2012</b> , 99, 198-205	24
1312	Ultra-short pulsed laser deposition of thin silver films for surface enhanced Raman scattering. <b>2012</b> , 207, 279-285	24
1311	Influence of surface segregation on the luminescence properties of doped YVO4 nanocrystals. <b>2012</b> , 34, 1998-2001	5
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1306	Sodium chloride template synthesis of cubic tin dioxide hollow particles for lithium ion battery applications. <b>2012</b> , 4, 1537-42	67
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1303	Hollow CuO nanospheres uniformly anchored on porous Si nanowires: preparation and their potential use as electrochemical sensors. <b>2012</b> , 4, 7525-31	50
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1299	One-dimensional copper hydroxide nitrate nanorods and nanobelts for radiochemical applications. <b>2012</b> , 4, 7194-8	30
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1297	Real-time visualization of convective transportation of solid materials at nanoscale. <b>2012</b> , 12, 6126-32	54
1296	Standing porous ZnO nanoplate-built hollow microspheres and kinetically controlled dissolution/crystal growth mechanism. <b>2012</b> , 27, 951-958	10

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1294	Preparation of Mo-Embedded Mesoporous Carbon Microspheres for Friedel@rafts Alkylation. <b>2012</b> , 116, 7767-7775	39
1293	Growth of Sb2S3 nanowires synthesized by colloidal process and self-assembly of amorphous spherical Sb2S3 nanoparticles in wires formation. <b>2012</b> , 18, 989-995	9
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1288	Fine control of titania deposition to prepare C@TiO2 composites and TiO2 hollow particles for photocatalysis and lithium-ion battery applications. <b>2012</b> , 22, 22135	56
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1282	An anion exchange approach to Bi2WO6 hollow microspheres with efficient visible light photocatalytic reduction of CO2 to methanol. <b>2012</b> , 48, 9729-31	248
1281	One-pot preparation and enhanced photocatalytic and electrocatalytic activities of ultralarge Ag/ZnO hollow coupled structures. <b>2012</b> , 14, 6738	21
1280	Synthesis and photocatalytic activity of single-crystalline hollow rh-In2O3 nanocrystals. <b>2012</b> , 51, 6529-36	52
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127	From highly monodisperse indium and indium tin colloidal nanocrystals to self-assembled indium tin oxide nanoelectrodes. <b>2012</b> , 6, 4113-21	42
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126	8 Interfacial Reaction-Directed Synthesis of Cell Binary Oxide Nanotubes and Their Applications in CO Oxidation and Water Treatment. <b>2012</b> , 22, 3914-3920	99
126	7 Ionomigration of Neutral Phases in Ionic Conductors. <b>2012</b> , 2, 1383-1389	19
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1246	Preparation and characterization of WO3/TiO2 hollow microsphere composites with catalytic activity in dark. <b>2012</b> , 181-182, 734-739	52
1245	Sublimation, chemical decomposition, and melting inside an elastoplastic material: General continuum thermodynamic and kinetic theory. <b>2012</b> , 34, 41-60	10
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1238	In2O3 hollow spheres: One-step solvothermal synthesis and gas sensing properties. <b>2012</b> , 134, 93-97	14
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1234	A facile one pot synthesis of collagen protected gold nanoparticles using Nafhalanodialdehyde. <b>2012</b> , 79, 199-201	5
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1231	Novel low temperature synthesis and characterisation of hollow silicon carbide spheres. <b>2012</b> , 152, 25-30	40
1230	One-pot hydrothermal synthesis of CuOZnO composite hollow spheres for selective H2S detection. <b>2012</b> , 168, 83-89	99
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1042	Designed synthesis of LiMn2O4 microspheres with adjustable hollow structures for lithium-ion battery applications. <b>2013</b> , 1, 837-842		50	
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853	Hierarchical cobalt-based hydroxide microspheres for water oxidation. <b>2014</b> , 6, 3376-83	47
852	Beyond conventional electrocatalysts: hollow nanoparticles for improved and sustainable oxygen reduction reaction activity. <b>2014</b> , 2, 18497-18507	37
851	Hollow micro/nanostructured materials prepared by ion exchange synthesis and their potential applications. <b>2014</b> , 38, 1883-1904	22
850	Self-assembly of single-crystalline Fe2O3 nanoplates into columnar superstructures: controllable synthesis, growth mechanism, and properties. <b>2014</b> , 16, 6873	20
849	Enhanced lithium storage capacity of Co3O4 hexagonal nanorings derived from Co-based metal organic frameworks. <b>2014</b> , 2, 17408-17414	66
848	Ex situ identification of the Cu+ long-range diffusion path of a Cu-based anode for lithium ion batteries. <b>2014</b> , 16, 11168-72	19
847	Facile synthesis of self-assembled spherical and mesoporous dandelion capsules of ZnO: efficient carrier for DNA and anti-cancer drugs. <b>2014</b> , 2, 3956-3964	34
846	Gadolinium fluoride mesoporous microspheres: controllable synthesis, materials and biological properties. <b>2014</b> , 2, 1791-1801	31

845	2014, 4, 36665	13
844	One-pot controlled synthesis of single-crystal Fe2O3 hollow nanostructure and its gas sensing properties. <b>2014</b> , 4, 42899-42904	11
843	Paramecium-like <del>MnO2</del> hierarchical hollow structures with enhanced electrochemical capacitance prepared by a facile dopamine carbon-source assisted shell-swelling etching method. <b>2014</b> , 2, 20729-20738	30
842	Er-doped YbPO up-conversion porous nanospheres for UCL/CT bimodal imaging in vivo and chemotherapy. <b>2014</b> , 2, 6508-6516	10
841	Synthesis of 2D hollow hematite microplatelets with tuneable porosity and their comparative photocatalytic activities. <b>2014</b> , 2, 4340	38
840	Hierarchical nanoscale multi-shell Au/CeO2 hollow spheres. <b>2014</b> , 5, 4221-4226	100
839	Synthesis of Co2SnO4 hollow cubes encapsulated in graphene as high capacity anode materials for lithium-ion batteries. <b>2014</b> , 2, 2728	61
838	Transformation of Cuprous Oxide into Hollow Copper Sulfide Cubes for Photocatalytic Hydrogen Generation. <b>2018</b> , 122, 14072-14081	35
837	Morphology Evolution of Gradient-Alloyed CdxZn1\(\mathbb{R}\)SeyS1\(\mathbb{Q}\)@ZnS Core\(\mathbb{B}\)hell Quantum Dots during Transmission Electron Microscopy Determination: A Route to Illustrate Strain Effects. <b>2018</b> , 122, 4583-4588	13
836	TePtFe Nanotubes as High-Performing Bifunctional Electrocatalysts for the Oxygen Reduction Reaction and Hydrogen Evolution Reaction. <b>2018</b> , 11, 1328-1333	17
835	Three-Dimensional Nanofibrous Air Electrode Assembled With Carbon Nanotubes-Bridged Hollow FeO Nanoparticles for High-Performance Lithium-Oxygen Batteries. <b>2018</b> , 10, 6531-6540	46
834	Triphenyl Phosphite as the Phosphorus Source for the Scalable and Cost-Effective Production of Transition Metal Phosphides. <b>2018</b> , 30, 1799-1807	45
833	Facile synthesis of oxygen defective yolk@hell BiO2@ for visible-light-driven photocatalytic inactivation of Escherichia coli. <b>2018</b> , 6, 4997-5005	38
832	Controllably Hollow AgAu Nanoparticles via Nonaqueous, Reduction Agent-Assisted Galvanic Replacement. <b>2018</b> , 35, 1700381	4
831	Degradable NIR-PTT Nanoagents with a Potential Cu@CuO@Polymer Structure. 2018, 10, 5161-5174	16
830	Suppression of interdiffusion-induced voiding in oxidation of copper nanowires with twin-modified surface. <b>2018</b> , 9, 340	14
829	Acceleration of Kirkendall effect processes in silicon nanospheres using magnetic fields. 2018, 20, 710-715	9
828	Facile Fabrication of Hollow Li3PO4 Catalyst via Ostwald Ripening. <b>2018</b> , 13, 1850004	1

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826	A thermoresponsive nanorattle containing two different catalysts for controllable one-pot tandem catalysis. <b>2018</b> , 29, 105501	
825	High capacity lithium ion batteries composed of cobalt oxide nanoparticle anodes and Raman spectroscopic analysis of nanoparticle strain dynamics in batteries. <b>2018</b> , 29, 075403	4
824	Yolk⊠hell-structured MnO2 microspheres with oxygen vacancies for high-performance supercapacitors. <b>2018</b> , 6, 1601-1611	92
823	Facile Synthesis of Co9S8 Hollow Spheres as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <b>2018</b> , 6, 1863-1871	56
822	Magneto-Fluorescent YolkBhell Nanoparticles. <b>2018</b> , 30, 775-780	31
821	Nanoreactor of MOF-Derived YolkBhell [email[protected]]N: Precisely Controllable Structure and Enhanced Catalytic Activity. <b>2018</b> , 8, 1417-1426	196
820	Review of porous intermetallic compounds by reactive synthesis of elemental powders. <b>2018</b> , 93, 217-226	38
819	An ultra-small NiFeO hollow particle/graphene hybrid: fabrication and electromagnetic wave absorption property. <b>2018</b> , 10, 2697-2703	133
818	Ni nanoparticles and the Kirkendall effect in dry reforming of methane. <b>2018</b> , 452, 239-247	13
817	Metal Oxide and Its Composite Nanomaterials for Electrochemical Monitoring of PTS: Design, Preparation, and Application. <b>2018</b> , 305-400	
816	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. <b>2018</b> , 6, 8855-8859	37
815	High alkaline ion storage capacity of hollow interwoven structured Sb/TiO particles: the galvanic replacement formation mechanism and volumetric buffer effect. <b>2018</b> , 54, 4049-4052	32
814	Controllable synthesis of nanostructured metal oxide and oxyhydroxide materials via electrochemical methods. <b>2018</b> , 10, 7-15	16
813	Galvanic Replacement-Driven Transformations of Atomically Intermixed Bimetallic Colloidal Nanocrystals: Effects of Compositional Stoichiometry and Structural Ordering. <b>2018</b> , 34, 4340-4350	10
812	Surface Evolution of PtCu Alloy Shell over Pd Nanocrystals Leads to Superior Hydrogen Evolution and Oxygen Reduction Reactions. <b>2018</b> , 3, 940-945	99
811	Kinetics of interface alloy phase formation at nanometer length scale in ultra-thin films: X-ray and polarized neutron reflectometry. <b>2018</b> , 96, 1-50	21
810	Effects of C3+ion irradiation on structural, electrical and magnetic properties of Ni nanotubes. <b>2018</b> , 5, 035021	5

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809	Facile one-step synthesis of Fe5(PO4)4(OH)3 🛮 2H2O hollow octahedra and their application for DNA separation. <b>2018</b> , 36, 689-694	2
808	Controlled synthesis of anisotropic hollow ZnCo2O4 octahedrons for high-performance lithium storage. <b>2018</b> , 11, 184-190	46
807	Synthesis of NiTi microtubes via the Kirkendall effect during interdiffusion of Ti-coated Ni wires. <b>2018</b> , 92, 42-48	18
806	Synthesis of barium-strontium titanate hollow tubes using Kirkendall effect. <b>2018</b> , 483, 102-109	4
805	Enhanced photocatalytic hydrogen evolution performance of mesoporous graphitic carbon nitride co-doped with potassium and iodine. <b>2018</b> , 221, 362-370	86
804	Fracture of hollow multiply-twinned particles under chemical etching. 2018, 68, 133-139	3
803	Fe3O4@SiO2@CCS porous magnetic microspheres as adsorbent for removal of organic dyes in aqueous phase. <b>2018</b> , 735, 1986-1996	37
802	Phase controllable fabrication of zinc cobalt sulfide hollow polyhedra as high-performance electrocatalysts for the hydrogen evolution reaction. <b>2018</b> , 10, 1774-1778	28
801	Cu-enhanced photoelectronic and ethanol sensing properties of Cu2O/Cu nanocrystals prepared by one-step controllable synthesis. <b>2018</b> , 5, 425-431	5
800	Fabrication of hollow metal nanoparticles by ultrasonically generated microbubbles. <b>2018</b> , 214, 20-22	
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798	Embedding hollow Co3O4 nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. <b>2018</b> , 11, 2836-2846	25
797	Template free solvothermal synthesis of single crystal magnetic Fe3O4 hollow spheres, their interaction with bovine serum albumin and antibacterial activities. <b>2018</b> , 22, 569-580	5
796	Sensitive and interference-free electrochemical determination of Pb(II) in wastewater using porous Ce-Zr oxide nanospheres. <b>2018</b> , 257, 1009-1020	36
795	Metal-organic frameworks derived yolk-shell ZnO/NiO microspheres as high-performance anode materials for lithium-ion batteries. <b>2018</b> , 335, 579-589	131
794	Heterobimetallic metalorganic framework nanocages as highly efficient catalysts for CO2 conversion under mild conditions. <b>2018</b> , 6, 2964-2973	55
793	Scalable and general synthesis of spinel manganese-based cathodes with hierarchical yolk@hell structure and superior lithium storage properties. <b>2018</b> , 11, 246-253	13
79 <sup>2</sup>	. 2018,	6

791	Growth of CoFe2O4 hollow nanoparticles on graphene sheets for high-performance electromagnetic wave absorbers. <b>2018</b> , 6, 12781-12787	53
790	ZIF-8@polyoxometalate derived Si-doped ZnWO@ZnO nanocapsules with open-shaped structures for efficient visible light photocatalysis. <b>2018</b> , 54, 13786-13789	12
789	Construction of uniform Co-Sn-X (X = S, Se, Te) nanocages with enhanced photovoltaic and oxygen evolution properties via anion exchange reaction. <b>2018</b> , 10, 22012-22024	20
788	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
787	Tandem catalysis induced by hollow PdO: highly efficient H2 generation coupled with organic dye degradation via sodium formate reforming. <b>2018</b> , 8, 6217-6227	2
786	Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. <b>2018</b> , 30, 8391-8414	26
7 <sup>8</sup> 5	Preparation and Characterization of Te/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/CuTe Ternary Composite Films for Flexible Thermoelectric Power Generator. <b>2018</b> , 10, 42310-42319	59
784	Study on Cogasification of Food Waste Char with Biomass/Coal Char and Their Interaction Mechanisms. <b>2018</b> , 32, 12644-12654	12
783	Controlled-Size Hollow Magnesium Sulfide Nanocrystals Anchored on Graphene for Advanced Lithium Storage. <b>2018</b> , 12, 12741-12750	21
782	Optical Anisotropicity of Core-Shell or Yolk-Shell-typed Ag@Fe3O4 Nanochains. <b>2018</b> , 39, 1273-1278	4
781	Fabrication, characterization and excellent formaldehyde gas sensing of Tb-doped In2O3 beaded-porous nanotubes. <b>2018</b> , 29, 19111-19122	5
78o	Preparation of Cobalt Nanocrystals Supported on Metal Oxides To Study Particle Growth in Fischer-Tropsch Catalysts. <b>2018</b> , 8, 10581-10589	34
779	Solid-to-Hollow Conversion of Silver Nanocrystals by Surface-Protected Etching. <b>2018</b> , 24, 19038-19044	2
778	Nickel selenide nanostructures as an electrocatalyst for hydrogen evolution reaction. <b>2018</b> , 43, 19851-19863	58
777	Structure and Magnetism Evolution from FeCo Nanoparticles to Hollow Nanostructure Conversion for Magnetic Applications. <b>2018</b> , 1, 5837-5842	8
776	Atomic Layer Deposition of a Film of AlO on Electrodeposited Copper Foams To Yield Highly Effective Oxygen Carriers for Chemical Looping Combustion-Based CO Capture. <b>2018</b> , 10, 37994-38005	6
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774	Activity enhancement of cobalt catalysts by tuning metal-support interactions. <b>2018</b> , 9, 4459	107

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772	Formation of Si Hollow Structures as Promising Anode Materials through Reduction of Silica in AlCl-NaCl Molten Salt. <b>2018</b> , 12, 11481-11490	55
771	Self-Assembly-Induced Mosslike Fe2O3 and FeP on Electro-oxidized Carbon Paper for Low-Voltage-Driven Hydrogen Production Plus Hydrazine Degradation. <b>2018</b> , 6, 15727-15736	17
770	Hollow or YolkBhell-Type Photocatalyst. <b>2018</b> , 223-240	1
769	Ag+-Induced Shape and Composition Evolution of Covellite CuS Nanoplatelets To Produce PlateBatellite and BiconcaveBarticle Heterostructures. <b>2018</b> , 30, 8089-8098	12
768	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-Close-Packed Hollow Sphere Arrays. <b>2018</b> , 130, 15933-15937	1
767	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-Close-Packed Hollow Sphere Arrays. <b>2018</b> , 57, 15707-15711	5
766	Conversion Chemistry of Nanoscopically Confined Manganese Silicate: Solid-State Route toward Porous Metal Oxide CatalystBupport. <b>2018</b> , 30, 8070-8078	7
765	A Self-Templating Redox-Mediated Synthesis of Hollow Phosphated Manganese Oxide Nanospheres as Noble-Metal-like Oxygen Electrocatalysts. <b>2018</b> , 30, 8270-8279	22
764	Construction of Porous Mo3P/Mo Nanobelts as Catalysts for Efficient Water Splitting. <b>2018</b> , 130, 14335-1433	96
763	Construction of Porous Mo P/Mo Nanobelts as Catalysts for Efficient Water Splitting. 2018, 57, 14139-14143	53
762	Mesoporous Pd@Ru Core-Shell Nanorods for Hydrogen Evolution Reaction in Alkaline Solution. <b>2018</b> , 10, 34147-34152	48
761	The role of metal vacancies during high-temperature oxidation of alloys. 2018, 2,	23
760	Constructing Highly Porous Thermoelectric Monoliths with High-Performance and Improved Portability from Solution-Synthesized Shape-Controlled Nanocrystals. <b>2018</b> , 18, 4034-4039	25
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758	Layered Catalysts for Low Temperature Size Selective Reforming of Hydrocarbons. <b>2018</b> , 61, 844-854	3
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755	Metal <b>©</b> dSe Double Shell Hollow Nanocubes via Sequential Nanoscale Reactions and Their Photocatalytic Hydrogen Evolution. <b>2018</b> , 61, 965-976	1
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751	Gradual DHIncursionDutside-inside strategy in construction of 3D flower-like Co3O4-CNT>N-PEGm hierarchical microspheres for supercapacitors. <b>2018</b> , 9, 27-38	10
75°	Fabrication of hollow boron-doped diamond nanostructure via electrochemical corrosion of a tungsten oxide template. <b>2018</b> , 29, 325602	6
749	Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles. 2018, 35, 1800120	8
748	Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction. <b>2018</b> , 10, 24715-24724	47
747	The Development of YolkBhell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. <b>2018</b> , 28, 1801737	60
746	Development of MgMnO3-las an oxygen carrier material for chemical looping combustion. <b>2018</b> , 231, 290-296	12
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741	Interfacial Doping of Heteroatom in Porous SnO for Highly Sensitive Surface Properties. <b>2018</b> , 3, 6988-6997	8
740	Syntheses and Properties of Metal Nanomaterials with Novel Crystal Phases. <b>2018</b> , 30, e1707189	103
739	Synergetic Transformation of Solid Inorganic-Organic Hybrids into Advanced Nanomaterials for Catalytic Water Splitting. <b>2018</b> , 51, 1711-1721	163
738	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. <b>2018</b> , 118, 6409-6455	467

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737	Systematic design of superaerophobic nanotube-array electrode comprised of transition-metal sulfides for overall water splitting. <b>2018</b> , 9, 2452	269
736	Under Diffusion Control: from Structuring Matter to Directional Motion. <b>2018</b> , 30, e1707029	24
735	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and in Situ Transmission Electron Microscopy. <b>2018</b> , 12, 7866-7874	33
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733	The Design and Synthesis of Hollow Micro-/Nanostructures: Present and Future Trends. <b>2018</b> , 30, e1800939	218
732	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. <b>2018</b> , 90, 719-744	27
731	"Matryoshka Doll"-Like CeO Microspheres with Hierarchical Structure To Achieve Significantly Enhanced Microwave Absorption Performance. <b>2018</b> , 10, 27540-27547	65
730	Metal-Organic-Framework-Derived Co S Hollow Nanoboxes for the Selective Reduction of Nitroarenes. <b>2018</b> , 11, 3131-3138	28
729	Influence of surface anisotropy on exchange resonance modes in spherical shells. <b>2018</b> , 51, 305003	3
728	Controlling the Reaction of Nanoparticles for Hollow Metal Oxide Nanostructures. <b>2018</b> , 140, 9070-9073	53
727	Surface engineering at the interface of core/shell nanoparticles promotes hydrogen peroxide generation. <b>2018</b> , 5, 895-906	14
726	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <b>2018</b> , 47, 8173-8202	157
725	Magnetic core-shell nanoparticles: Remote driving, hyperthermia, and controlled drug release. <b>2018</b> , 259-296	1
724	Considerably enhanced exciton emission of CsPbCl perovskite quantum dots by the introduction of potassium and lanthanide ions. <b>2018</b> , 10, 14067-14072	76
723	Role of Active Phase in Fischer Tropsch Synthesis: Experimental Evidence of CO Activation over Single-Phase Cobalt Catalysts. <b>2018</b> , 8, 7787-7798	70
722	Nano-architectural advancement of CeO2-driven catalysis via electrospinning. <b>2018</b> , 350, 245-280	10
721	Engineering Zn0.33Co0.67S Hollow Microspheres with Enhanced Electrochemical Performance for Lithium and Sodium Ion Batteries. <b>2018</b> , 2018, 3036-3040	13
720	Green approach for in-situ growth of highly-ordered 3D flower-like CuS hollow nanospheres decorated on nitrogen and sulfur co-doped graphene bionanocomposite with enhanced peroxidase-like catalytic activity performance for colorimetric biosensing of glucose. <b>2018</b> , 90, 576-588	14

719	Controllable construction of flower-like FeS/Fe2O3 composite for lithium storage. <b>2018</b> , 392, 193-199	33
718	Bimetallic Nanoframes and Nanoporous Structures. <b>2018</b> , 172-246	1
717	Synthesis of 2D Metal Chalcogenide Thin Films through the Process Involving Solution-Phase Deposition. <b>2018</b> , 30, e1707577	29
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713	Cytomembrane-Structure-Inspired Active Ni-N-O Interface for Enhanced Oxygen Evolution Reaction. <b>2018</b> , 30, e1803367	84
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711	Synthesis of Macroporous Magnetic Fe©lMicroparticles Via a Novel Organic Matter Assisted Open-Cell Hollow Sphere Assembly Method. <b>2018</b> , 11,	4
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708	Micrometer-Scale Kirkendall Effect in the Formation of High-Temperature-Resistant Cr2O3/Al2O3 Solid Solution Hollow Fibers. <b>2018</b> , 30, 5978-5986	9
707	In Situ Techniques for Probing Kinetics and Mechanism of Hollowing Nanostructures through Direct Chemical Transformations. <b>2018</b> , 2, 1800165	9
706	Co0.85Se hollow nanospheres anchored on N-doped graphene nanosheets as highly efficient, nonprecious electrocatalyst for hydrogen evolution reaction in both acid and alkaline media. <b>2018</b> , 400, 232-241	67
705	Effect of Cr content on interdiffusion and Kirkendall pore formation during homogenization of pack-aluminized Ni and Ni-Cr wires. <b>2018</b> , 101, 108-115	12
704	Cu2OជែuO Hollow Nanospheres as a Heterogeneous Catalyst for Synergetic Oxidation of CO. <b>2018</b> , 122, 19524-19531	28
703	Large-Scale, Solution-Synthesized Nanostructured Composites for Thermoelectric Applications. <b>2018</b> , 30, e1801904	12
702	Double-shelled hollow LaNiO3 nanocage as nanoreactors with remarkable catalytic performance: Illustrating the special morphology and performance relationship. <b>2018</b> , 455, 57-67	17

701	Hollow NiNiO nanoparticles embedded in porous carbon nanosheets as a hybrid anode for sodium-ion batteries with an ultra-long cycle life. <b>2018</b> , 6, 12663-12671	42
700	Tailoring Porosity in Copper-Based Multinary Sulfide Nanostructures for Energy, Biomedical, Catalytic, and Sensing Applications. <b>2018</b> , 1, 3042-3062	34
699	Temperature induced interface and optical properties of the multi-layer nanotube network. <b>2018</b> , 123, 224102	4
698	Metal-support interaction in catalysis: The influence of the morphology of a nano-oxide domain on catalytic activity. <b>2018</b> , 237, 753-762	12
697	Architecture of yolk-shell structured mesoporous silica nanospheres for catalytic applications. <b>2018</b> , 47, 9072-9078	16
696	Recent Advances in the Solution-Based Preparation of Two-Dimensional Layered Transition Metal Chalcogenide Nanostructures. <b>2018</b> , 118, 6151-6188	127
695	(FeNi)S tubular spheres supported on Ni foam as an efficient bifunctional electrocatalyst for overall water splitting. <b>2018</b> , 8, 9425	22
694	A Glucose-Assisted Hydrothermal Reaction for Directly Transforming Metal©rganic Frameworks into Hollow Carbonaceous Materials. <b>2018</b> , 30, 4401-4408	77
693	Morphological transformations during Fischer-Tropsch synthesis on a titania-supported cobalt catalyst. <b>2019</b> , 323, 233-256	24
692	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <b>2019</b> , 31, e1800426	147
691	Enhancement of photocatalytic hydrogen evolution activity of porous oxygen doped g-C3N4 with nitrogen defects induced by changing electron transition. <b>2019</b> , 240, 30-38	175
690	Recent Advances of MOFs and MOF-Derived Materials in Thermally Driven Organic Transformations. <b>2019</b> , 25, 2161-2178	44
689	Tunable synthesis of multiply twinned intermetallic Pd3Pb nanowire networks toward efficient N2 to NH3 conversion. <b>2019</b> , 7, 20247-20253	24
688	Recent progress in carbon-based materials as catalysts for electrochemical and photocatalytic water splitting. <b>2019</b> , 173-200	1
687	Advances in the synthesis and design of nanostructured materials by aerosol spray processes for efficient energy storage. <b>2019</b> , 11, 19012-19057	22
686	Magnetic Reactive Oxygen Species Nanoreactor for Switchable Magnetic Resonance Imaging Guided Cancer Therapy Based on pH-Sensitive FeC@FeO Nanoparticles. <b>2019</b> , 13, 10002-10014	82
685	Real-Time Imaging of Nanoscale Redox Reactions over Bimetallic Nanoparticles. <b>2019</b> , 29, 1903242	24
684	Templated Dealloying: Designing Ultrastructures by Memory Effect. <b>2019</b> , 19, 4957-4963	2

683	Hollow multi-shelled structures for energy conversion and storage applications. <b>2019</b> , 6, 2239-2259	20
682	Electrochemical Cycling-Induced Spiky Cu O/Cu Nanowire Array for Glucose Sensing. <b>2019</b> , 4, 12222-12229	22
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680	New Strategies for the Preparation of Sinter-Resistant Metal-Nanoparticle-Based Catalysts. <b>2019</b> , 31, e1901905	99
679	Magnetic ordering contribution on diffusion process forming hollow materials. <b>2019</b> , 339, 115000	2
678	Revealing the active species of Cu-based catalysts for heterogeneous Fenton reaction. <b>2019</b> , 258, 117985	62
677	Superhydrophobic Pd@CeO2/Al2O3 catalyst coating for hydrogen mitigation systems in nuclear power plants. <b>2019</b> , 44, 21746-21758	2
676	S-rGO modified sulphur doped carbon nitride with mixed-dimensional hierarchical nanostructures of silver vanadate for the enhanced photocatalytic degradation of pollutants in divergent fields. <b>2019</b> , 495, 143478	13
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342	Interplay between Chemical Transformations and Atomic Structure in Nanocrystals and Nanoclusters. <b>2021</b> , 54, 509-519	4

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324	Advanced Development Strategy of Nano Catalyst and DFT Calculations for Direct Synthesis of Hydrogen Peroxide. <b>2021</b> , 11, 2003121	13

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312	Modulated Luminescence of Lanthanide Materials by Local Surface Plasmon Resonance Effect. <b>2021</b> , 11,	5
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