

# Nanomaterials for energy conversion and storage

Chemical Society Reviews

42, 3127

DOI: [10.1039/c3cs00009e](https://doi.org/10.1039/c3cs00009e)

Citation Report

#	ARTICLE	IF	CITATIONS
3	Polyaniline/carbon nanotube multi-layered hollow microspheres with sandwich structure and their electrochemical performance. <i>Synthetic Metals</i> , 2013, 179, 34-41.	2.1	13
4	Synthesis of nanostructured materials by using metal-cyanide coordination polymers and their lithium storage properties. <i>Nanoscale</i> , 2013, 5, 11087.	2.8	28
5	Intrinsic Focusing of the Particle Size Distribution in Colloids Containing Nanocrystals of Two Different Crystal Phases. <i>ACS Nano</i> , 2013, 7, 11242-11254.	7.3	53
6	Curly Graphene with Specious Interlayers Displaying Superior Capacity for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25845-25851.	1.5	55
7	Facile synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheets stacked by ultrathin nanoflakes for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14618.	5.2	45
8	Copper-indium-selenide quantum dot-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20517.	1.3	69
9	Yolk-shelled cathode materials with extremely high electrochemical performances prepared by spray pyrolysis. <i>Nanoscale</i> , 2013, 5, 7867.	2.8	58
10	Surface modification of MoO <sub>x</sub> S <sub>y</sub> on porous TiO <sub>2</sub> nanospheres as an anode material with highly reversible and ultra-fast lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15128.	5.2	28
11	Highly efficient photoanodes for dye solar cells with a hierarchical meso-ordered structure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16949.	1.3	4
12	Electrochemical investigation of free-standing polypyrrole-silver nanocomposite films: a substrate free electrode material for supercapacitors. <i>RSC Advances</i> , 2013, 3, 24567.	1.7	55
13	Stabilization of carbon nanotubes-based hollow cages for energy storage: From collapsed morphology to free-standing structure. <i>Electrochimica Acta</i> , 2013, 105, 53-61.	2.6	5
14	Enhanced Intercalation Dynamics and Stability of Engineered Micro/Nano-Structured Electrode Materials: Vanadium Oxide Mesocrystals. <i>Small</i> , 2013, 9, 3880-3886.	5.2	50
15	Oriented mesoporous TiO <sub>2</sub> film as photoanode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8023.	5.2	4
16	Exploring the origins of the apparent electrocatalytic-oxidation of kojic acid at graphene modified electrodes. <i>Analyst</i> , The, 2013, 138, 4436-4442.	1.7	31
17	Hydrogenated TiO <sub>2</sub> Nanocrystals: A Novel Microwave Absorbing Material. <i>Advanced Materials</i> , 2013, 25, 6905-6910.	11.1	507
18	Towards Visible Light Hydrogen Generation: Quantum Dot-Sensitization via Efficient Light Harvesting of Hybrid-TiO <sub>2</sub> . <i>Scientific Reports</i> , 2013, 3, 3330.	1.6	39
20	Nanoparticles Engineering for Lithium-ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 737-753.	1.2	22
21	Semiconductor quantum dot-sensitized solar cells. <i>Nano Reviews</i> , 2013, 4, 22578.	3.7	109

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22	Guest effect on spin-crossover frameworks. <i>Reviews in Inorganic Chemistry</i> , 2014, 34, 199-216.	1.8	31
23	Polypyrrole: FeO <sub>x</sub> -ZnO nanoparticle solar cells with breakthrough open-circuit voltage prepared from relatively stable liquid dispersions. <i>RSC Advances</i> , 2014, 4, 58608-58614.	1.7	5
24	pH-Regulated Synthesis of Multi-Shelled Manganese Oxide Hollow Microspheres as Supercapacitor Electrodes Using Carbonaceous Microspheres as Templates. <i>Advanced Science</i> , 2014, 1, 1400011.	5.6	154
25	Improved electrochemical property of copper nitrate hydrate by multi-wall carbon nanotube. <i>Electrochimica Acta</i> , 2014, 147, 765-772.	2.6	5
26	Effect of hydroxide anion generating agents on growth and properties of ZnO nanorod arrays. <i>Electrochimica Acta</i> , 2014, 149, 386-393.	2.6	31
27	Composition-Tailored Mn <sup>1+</sup> /Ru <sup>2+</sup> Nanosheets and Their Reassembled Nanocomposites: Improvement of Electrode Performance upon Ru Substitution. <i>Chemistry - A European Journal</i> , 2014, 20, 5132-5140.	1.7	26
28	Polyaniline@MnO <sub>2</sub> /Graphene Oxide Ternary Composites for Electrochemical Supercapacitors. <i>Advanced Materials Research</i> , 0, 1070-1072, 465-470.	0.3	0
29	Efficient plasmonic scattering of colloidal silver particles through annealing-induced changes. <i>Nanotechnology</i> , 2014, 25, 455706.	1.3	7
30	The Fe-Core/Carbon-Shell Ultrafine Nanopowders as Platform for Biomolecules Grafting. <i>Advanced Materials Research</i> , 0, 1040, 194-198.	0.3	1
31	Lithium Insertion/Deinsertion Characteristics of Nanostructured Amorphous Tantalum Oxide Thin Films. <i>ChemElectroChem</i> , 2014, 1, 158-164.	1.7	27
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33	Sulfurized activated carbon for high energy density supercapacitors. <i>Journal of Power Sources</i> , 2014, 252, 90-97.	4.0	135
34	Fabrication and characterization of a new dye sensitized solar cell with a new Schiff base cobalt complex as a redox mediator. <i>RSC Advances</i> , 2014, 4, 15961.	1.7	16
35	Oxide Nanostructures Hyperbranched with Thin and Hollow Metal Shells for High-Performance Nanostructured Battery Electrodes. <i>Small</i> , 2014, 10, 2419-2428.	5.2	37
36	Organic Nanoparticles: Mechanism of Electron Transfer to Indigo Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 714-717.	1.7	30
37	Facile synthesis of three dimensional hierarchical Co-Al layered double hydroxides on graphene as high-performance materials for supercapacitor electrode. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 131-136.	5.0	14
38	Methane and carbon dioxide adsorption and diffusion in amorphous, metal-decorated nanoporous silica. <i>Molecular Simulation</i> , 2014, 40, 618-633.	0.9	6
39	Facile synthesis of single-crystal mesoporous CoNiO <sub>2</sub> nanosheets assembled flowers as anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 132, 404-409.	2.6	48

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40	Self-Assembly of $\text{Co}_3\text{V}_2\text{O}_8$ Multilayered Nanosheets: Controllable Synthesis, Excellent Li-Storage Properties, and Investigation of Electrochemical Mechanism. ACS Nano, 2014, 8, 4474-4487.	7.3	229
41	Transition metal (Fe, Co and Ni) oxide nanoparticles grafted graphitic carbon nitrides as efficient optical limiters and recyclable photocatalysts. Applied Surface Science, 2014, 308, 139-147.	3.1	88
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59	Mesoporous carbon coated molybdenum oxide nanobelts for improved lithium ion storage. <i>RSC Advances</i> , 2014, 4, 29586-29590.	1.7	11
60	Construction of acylhydrazidate-extended metal-organic frameworks. <i>Dalton Transactions</i> , 2014, 43, 11646.	1.6	21
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62	The curious case of CdTe/CdS: photoabsorption versus photoemission. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3868-3872.	2.7	8
63	High-capacity full lithium-ion cells based on nanoarchitected ternary manganese-nickel-cobalt carbonate and its lithiated derivative. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14947.	5.2	52
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65	One-pot hydrothermal synthesis of Zn-reduced graphene oxide composites with enhanced photocatalytic properties. <i>CrystEngComm</i> , 2014, 16, 214-222.	1.3	71
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74	Hierarchically porous anatase TiO <sub>2</sub> microspheres composed of tiny octahedra with enhanced electrochemical properties in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20133-20138.	5.2	34
75	Heterogeneous electron transfer at nanoscopic electrodes: importance of electronic structures and electric double layers. <i>Chemical Society Reviews</i> , 2014, 43, 5372-5386.	18.7	82

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83	Novel one pot stoichiometric synthesis of nickel sulfide nanomaterials as counter electrodes for QDSSCs. Materials Chemistry and Physics, 2014, 148, 395-402.	2.0	10
84	All- <i>Solid-State</i> Z <sup>+</sup> Scheme Photocatalytic Systems. Advanced Materials, 2014, 26, 4920-4935.	11.1	1,989
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94	Polyaniline and Polypyrrole Pseudocapacitor Electrodes with Excellent Cycling Stability. Nano Letters, 2014, 14, 2522-2527.	4.5	688

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96	Nanostructured metal sulfides for energy storage. <i>Nanoscale</i> , 2014, 6, 9889-9924.	2.8	888
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98	Designed synthesis of TiO <sub>2</sub> -modified iron oxides on/among carbon nanotubes as a superior lithium-ion storage material. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11372.	5.2	58
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100	Ternary nitrogen-doped graphene/nickel ferrite/polyaniline nanocomposites for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2014, 269, 250-259.	4.0	136
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108	Facile synthesis of Co <sub>3</sub> O <sub>4</sub> mesoporous nanosheets and their lithium storage properties. <i>Materials Letters</i> , 2014, 125, 103-106.	1.3	18
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111	Doping of Single Polymeric Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12587-12589.	7.2	15
112	Graphene-Inorganic Hybrids with Cobalt Oxide Polymorphs for Electrochemical Energy Systems and Electrocatalysis: Synthesis, Processing and Properties. <i>Journal of Electronic Materials</i> , 2015, 44, 4492-4509.	1.0	18
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116	Porous VOxNy nanoribbons supported on CNTs as efficient and stable non-noble electrocatalysts for the oxygen reduction reaction. <i>Scientific Reports</i> , 2015, 5, 17385.	1.6	21
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122	From Commercial Sponge Toward 3D Graphene-Silicon Networks for Superior Lithium Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1500289.	10.2	114
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124	Facile Synthesis of ZnO@TiO <sub>2</sub> Core-Shell Nanorod Thin Films for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-5.	1.5	4
126	Anchoring nano-sulfur on flat graphene as cathode material for lithium-sulfur battery. <i>RSC Advances</i> , 2015, 5, 40310-40315.	1.7	19
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132	The Biginelli reaction under batch and continuous flow conditions: catalysis, mechanism and antitumoral activity. <i>RSC Advances</i> , 2015, 5, 48506-48515.	1.7	51
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147	An Ion-Exchange Promoted Phase Transition in a Li-Excess Layered Cathode Material for High-Performance Lithium Ion Batteries. Advanced Energy Materials, 2015, 5, 1401937.	10.2	82
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150	Synthesis and characterization of urchin-like Mn <sub>0.33</sub> Co <sub>0.67</sub> C <sub>2</sub> O <sub>4</sub> for Li-ion batteries: Role of SEI layers for enhanced electrochemical properties. Electrochimica Acta, 2015, 163, 93-101.	2.6	58
151	Growth of Ultrathin ZnCo <sub>2</sub> O <sub>4</sub> Nanosheets on Reduced Graphene Oxide with Enhanced Lithium Storage Properties. Advanced Science, 2015, 2, 1400014.	5.6	153
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573	Importance of microstructure and interface in designing metal oxide nanocomposites for supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 803, 30-39.	1.9	14
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577	Self-assembly synthesis of 3D graphene-encapsulated hierarchical Fe <sub>3</sub> O <sub>4</sub> nano-flower architecture with high lithium storage capacity and excellent rate capability. <i>Journal of Power Sources</i> , 2017, 365, 98-108.	4.0	61
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583	Highly efficient hydrogen evolution reaction by strain and phase engineering in composites of Pt and MoS <sub>2</sub> nano-scrolls. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18356-18365.	1.3	48
584	Construction of p-n heterojunction Î²-Bi <sub>2</sub> O <sub>3</sub> /BiVO <sub>4</sub> nanocomposite with improved photoinduced charge transfer property and enhanced activity in degradation of ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 259-268.	10.8	97
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587	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. <i>Progress in Materials Science</i> , 2017, 90, 224-275.	16.0	60
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595	P3-type K <sub>0.33</sub> Co <sub>0.53</sub> Mn <sub>0.47</sub> O <sub>2</sub> ·0.39H <sub>2</sub> O: a novel bifunctional electrode for Na-ion batteries. <i>Materials Horizons</i> , 2017, 4, 1122-1127.	6.4	41
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606	Reconstruction of copper shell on metal oxides as enhanced nanoarrays electrodes for lithium ion batteries. <i>Materials Research Bulletin</i> , 2017, 86, 308-312.	2.7	7
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621	Hollow NiCo <sub>2</sub> S <sub>4</sub> Nanospheres Hybridized with 3D Hierarchical Porous rGO/Fe <sub>2</sub> O <sub>3</sub> Composites toward High-Performance Energy Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1703453.	10.2	142

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632	One-pot synthesis of nickel-cobalt hydroxyfluorides nanowires with ultrahigh energy density for an asymmetric supercapacitor. <i>Science Bulletin</i> , 2018, 63, 322-330.	4.3	16
633	Carbon aerogels by pyrolysis of TEMPO-oxidized cellulose. <i>Applied Surface Science</i> , 2018, 440, 873-879.	3.1	43
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662	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259.	9.5	221
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679	An efficient multidoped Cu <sub>0.39</sub> Zn <sub>0.14</sub> Co <sub>2.47</sub> O <sub>4</sub> -ZnO electrode attached on reduced graphene oxide and copper foam as superior lithium-ion battery anodes. <i>Chemical Engineering Journal</i> , 2018, 336, 510-517.	6.6	36
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686	Amorphous SiO <sub>2</sub> /C composite as anode material for lithium-ion batteries. <i>Journal of Materials Research</i> , 2018, 33, 1219-1225.	1.2	24
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697	Electrochemical and Photoelectrochemical Properties of Nickel Oxide (NiO) With Nanostructured Morphology for Photoconversion Applications. <i>Frontiers in Chemistry</i> , 2018, 6, 601.	1.8	47
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700	Exploring Local Disorder within CAU-1 Frameworks Using Hyperpolarized <sup>129</sup> Xe NMR Spectroscopy. <i>Langmuir</i> , 2018, 34, 12538-12548.	1.6	17
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703	Preparation of ZnFe <sub>2</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Nanocomposites From Sulfuric Acid Leaching Liquor of Jarosite Residue and Their Application in Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018, 6, 442.	1.8	38
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