

Graphene-Wrapped Fe₃O₄ An Capacity and Cyclic Stability for Lithium Ion Batteries

Chemistry of Materials

22, 5306-5313

DOI: 10.1021/cm101532x

Citation Report

#	ARTICLE	IF	CITATIONS
3	The Hobbling of Coal: Policy and Regulatory Uncertainties. <i>Science</i> , 1978, 200, 153-158.	6.0	17
4	Mn ₃ O ₄ ~Graphene Hybrid as a High-Capacity Anode Material for Lithium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2010, 132, 13978-13980.	6.6	1,849
5	Graphene-wrapped TiO ₂ hollow structures with enhanced lithium storage capabilities. <i>Nanoscale</i> , 2011, 3, 2158.	2.8	223
6	Hierarchical self-assembly of Mn ₂ Mo ₃ O ₈ ~graphene nanostructures and their enhanced lithium-storage properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 17229.	6.7	50
7	SnSe ₂ nanoplate~graphene composites as anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2011, 47, 5241.	2.2	203
8	Functionalization of PNIPAAm microgels using magnetic graphene and their application in microreactors as switch materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 10512.	6.7	24
9	Synergetic approach to achieve enhanced lithium ion storage performance in ternary phased SnO ₂ ~Fe ₂ O ₃ /rGO composite nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 12770.	6.7	80
10	Sheet-like and fusiform CuO nanostructures grown on graphene by rapid microwave heating for high Li-ion storage capacities. <i>Journal of Materials Chemistry</i> , 2011, 21, 17916.	6.7	97
11	Synthesis of single-crystalline α -Fe ₂ O ₃ nanobelts via a facile PEG-200 assisted solution route. <i>CrystEngComm</i> , 2011, 13, 6045.	1.3	19
12	Nanostructured NiO electrode for high rate Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 3571.	6.7	330
13	Preparation of LiCoO ₂ concaved cuboctahedra and their electrochemical behavior in lithium-ion battery. <i>Dalton Transactions</i> , 2011, 40, 7645.	1.6	27
14	Carbon Nanocapsules as Nanoreactors for Controllable Synthesis of Encapsulated Iron and Iron Oxides: Magnetic Properties and Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3612-3620.	1.5	101
15	One-step molybdate ion assisted electrochemical synthesis of α -MoO ₃ -decorated graphene sheets and its potential applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 15009.	6.7	50
16	Nanohybridization of ferrocene clusters and reduced graphene oxides with enhanced lithium storage capability. <i>Chemical Communications</i> , 2011, 47, 10383.	2.2	32
17	Effects of Crystalline Phase and Particle Size on the Properties of Plate-Like Fe ₂ O ₃ Nanoparticles during α - to β -Phase Transformation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3602-3611.	1.5	38
18	Co ₃ O ₄ @graphene Composites as Anode Materials for High-Performance Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2011, 50, 1628-1632.	1.9	354
19	Ultralong single crystalline V ₂ O ₅ nanowire/graphene composite fabricated by a facile green approach and its lithium storage behavior. <i>Energy and Environmental Science</i> , 2011, 4, 4000.	15.6	252
20	Porous Fe ₃ O ₄ /Carbon Core/Shell Nanorods: Synthesis and Electromagnetic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13603-13608.	1.5	368

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22	Magnetite/graphene nanosheet composites: interfacial interaction and its impact on the durable high-rate performance in lithium-ion batteries. RSC Advances, 2011, 1, 782.	1.7	332
23	Spinel LiMn ₂ O ₄ /reduced graphene oxide hybrid for high rate lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 17309.	6.7	138
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25	Graphene-encapsulated iron microspheres on the graphene nanosheets. Physical Chemistry Chemical Physics, 2011, 13, 17818.	1.3	15
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27	A novel bath lily-like graphene sheet-wrapped nano-Si composite as a high performance anode material for Li-ion batteries. RSC Advances, 2011, 1, 958.	1.7	85
28	A one-pot microwave-assisted non-aqueous sol-gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. RSC Advances, 2011, 1, 1687.	1.7	75
29	NiO nanosheets grown on graphene nanosheets as superior anode materials for Li-ion batteries. Nanoscale, 2011, 3, 2615.	2.8	342
30	Superparamagnetic Fe ₃ O ₄ nanocrystals@graphene composites for energy storage devices. Journal of Materials Chemistry, 2011, 21, 5069.	6.7	336
31	One-pot synthesis of ZnFe ₂ O ₄ /C hollow spheres as superior anode materials for lithium ion batteries. Chemical Communications, 2011, 47, 6828.	2.2	214
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34	Origin of Bonding between the SWCNT and the Fe ₃ O ₄ (001) Surface and the Enhanced Electrical Conductivity. Journal of Physical Chemistry Letters, 2011, 2, 2853-2858.	2.1	17
35	Monolayer graphene/NiO nanosheets with two-dimension structure for supercapacitors. Journal of Materials Chemistry, 2011, 21, 18792.	6.7	305
36	NiO nanocone array electrode with high capacity and rate capability for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 9988.	6.7	194
37	A general strategy toward graphene@metal oxide core-shell nanostructures for high-performance lithium storage. Energy and Environmental Science, 2011, 4, 4954.	15.6	255
38	Fabrication of Co ₃ O ₄ -reduced graphene oxide scrolls for high-performance supercapacitor electrodes. Physical Chemistry Chemical Physics, 2011, 13, 14462.	1.3	215

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39	Self-Assembled Hierarchical MoO ₂ /Graphene Nanoarchitectures and Their Application as a High-Performance Anode Material for Lithium-Ion Batteries. ACS Nano, 2011, 5, 7100-7107.	7.3	611
40	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. Nanoscale, 2011, 3, 1084-1089.	2.8	352
41	One-Pot Synthesis of Uniform Fe ₃ O ₄ Nanospheres with Carbon Matrix Support for Improved Lithium Storage Capabilities. ACS Applied Materials & Interfaces, 2011, 3, 3276-3279.	4.0	162
42	Design and Tailoring of a Three-Dimensional TiO ₂ "Graphene" Carbon Nanotube Nanocomposite for Fast Lithium Storage. Journal of Physical Chemistry Letters, 2011, 2, 3096-3101.	2.1	205
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48	Synthesis of Magnetite/Graphene Oxide Composite and Application for Cobalt(II) Removal. Journal of Physical Chemistry C, 2011, 115, 25234-25240.	1.5	386
49	Non-covalent doping of graphitic carbon nitride polymer with graphene: controlled electronic structure and enhanced optoelectronic conversion. Energy and Environmental Science, 2011, 4, 4517.	15.6	408
50	SnO ₂ nanosheets grown on graphene sheets with enhanced lithium storage properties. Chemical Communications, 2011, 47, 7155.	2.2	387
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60	Li ion battery materials with core-shell nanostructures. <i>Nanoscale</i> , 2011, 3, 3967.	2.8	473
61	Nanosized Li ₄ Ti ₅ O ₁₂ /graphene hybrid materials with low polarization for high rate lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 8610-8617.	4.0	306
62	Facile synthesis and electrochemical properties of Fe ₃ O ₄ nanoparticles for Li ion battery anode. <i>Journal of Power Sources</i> , 2011, 196, 8669-8674.	4.0	72
63	Low temperature synthesis of Fe ₃ O ₄ nanoparticles and its application in lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2011, 130, 1260-1264.	2.0	8
64	Hydrothermal synthesis of magnetic reduced graphene oxide sheets. <i>Materials Research Bulletin</i> , 2011, 46, 2077-2083.	2.7	52
65	A facile one-step hydrothermal method to produce graphene-MoO ₃ nanorod bundle composites. <i>Materials Letters</i> , 2011, 65, 2341-2344.	1.3	35
66	Durable high-rate performance of CuO hollow nanoparticles/graphene-nanosheet composite anode material for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2011, 13, 1357-1360.	2.3	114
67	Preparation and characterization of core-shell structure Fe ₃ O ₄ /C nanoparticles with unique stability and high electrochemical performance for lithium-ion battery anode material. <i>Electrochimica Acta</i> , 2011, 56, 9233-9239.	2.6	47
68	High capacity ZnFe ₂ O ₄ anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 9433-9438.	2.6	166
69	Co ₂ SnO ₄ -multiwalled carbon nanotubes composite as a highly reversible anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 9515-9519.	2.6	49
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72	Liquid-phase exfoliation, functionalization and applications of graphene. <i>Nanoscale</i> , 2011, 3, 2118.	2.8	265
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74	Graphene-Based Materials: Synthesis, Characterization, Properties, and Applications. <i>Small</i> , 2011, 7, 1876-1902.	5.2	2,239

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81	An overview of graphene in energy production and storage applications. <i>Journal of Power Sources</i> , 2011, 196, 4873-4885.	4.0	819
82	Reduced graphene oxide/tin oxide composite as an enhanced anode material for lithium ion batteries prepared by homogenous coprecipitation. <i>Journal of Power Sources</i> , 2011, 196, 6473-6477.	4.0	148
83	Graphene based materials: Past, present and future. <i>Progress in Materials Science</i> , 2011, 56, 1178-1271.	16.0	3,063
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1153	Box-implanted Nb ₂ O ₅ nanorods as superior anode materials in lithium ion batteries. <i>Ceramics International</i> , 2017, 43, 12388-12395.	2.3	37
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1156	Facile synthesis of hierarchical CoMn ₂ O ₄ microspheres with porous and micro-/nanostructural morphology as anode electrodes for lithium-ion batteries. <i>Electronic Materials Letters</i> , 2017, 13, 427-433.	1.0	15
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1281	Carbon modified porous γ -Fe ₂ O ₃ as anode for high performance Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11936-11944.	1.1	3
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1291	ZnSe nanoparticles dispersed in reduced graphene oxides with enhanced electrochemical properties in lithium/sodium ion batteries. <i>RSC Advances</i> , 2018, 8, 25734-25744.	1.7	42
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1293	Facile synthesis of Fe ₃ O ₄ /NiFe ₂ O ₄ nanosheets with enhanced Lithium-ion storage by one-step chemical dealloying. <i>Journal of Materials Science</i> , 2018, 53, 15631-15642.	1.7	27

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1298	CoO nanorod arrays on carbon nanotube foams fabricated by reducing carbon dioxide as high-performance electrode materials for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3235-3243.	1.2	4
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1415	Thermal decomposition followed by acid etching to synthesize Fe ₃ O ₄ @C for lithium storage. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 91-97.	1.1	1
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1444	Ferroferric oxide nanoclusters decorated Ti ₃ C ₂ T _x nanosheets as high performance anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2020, 329, 135146.	2.6	41

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1459	Vibration analysis of damaged and undamaged steel structure systems: cantilever column and frame. <i>Earthquake Engineering and Engineering Vibration</i> , 2020, 19, 725-737.	1.1	14
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