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## Battery materials for ultrafast charging and discharging

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2287	Plug-in hybrids and new energy storages. <b>2009</b> ,		2
2286	Surface adsorption and disordering in LiFePO <sub>4</sub> based battery cathodes. <b>2009</b> , 95, 221905		44
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2116	Electrodynamics and quantum capacity of Li <sub>x</sub> FePO <sub>4</sub> battery material. <b>2011</b> , 99, 192103	11
2115	Charge Localization and Transport in Lithiated Olivine Phosphate Materials. <b>2011</b> , 115, 25001-25006	22
2114	XPS and ToF-SIMS Study of Electrode Processes on Sn-Ni Alloy Anodes for Li-Ion Batteries. <b>2011</b> , 115, 7012-7018	80
2113	Functionally strain-graded nanoscoops for high power Li-ion battery anodes. <b>2011</b> , 11, 377-84	97
2112	The Effect of Insertion Species on Nanostructured Open Framework Hexacyanoferrate Battery Electrodes. <b>2011</b> , 159, A98-A103	281
2111	Nanoporous spherical LiFePO <sub>4</sub> for high performance cathodes. <b>2011</b> , 4, 885	137
2110	Porous Co <sub>3</sub> O <sub>4</sub> nanoneedle arrays growing directly on copper foils and their ultrafast charging/discharging as lithium-ion battery anodes. <b>2011</b> , 47, 4718-20	164
2109	Nickel hexacyanoferrate nanoparticle electrodes for aqueous sodium and potassium ion batteries. <b>2011</b> , 11, 5421-5	769

2108	High surface area templated LiFePO <sub>4</sub> from a single source precursor molecule. <b>2011</b> , 4, 965-972	29
2107	Controlling the lithiation-induced strain and charging rate in nanowire electrodes by coating. <b>2011</b> , 5, 4800-9	125
2106	Influence of carbon towards improved lithium storage properties of Li <sub>2</sub> MnSiO <sub>4</sub> cathodes. <b>2011</b> , 21, 2470	112
2105	Ammonia Assisted Hydrothermal Synthesis of Monodisperse LiFePO <sub>4</sub> Microspheres as Cathode Material for Lithium Ion Batteries. <b>2011</b> , 158, A1448	33
2104	l-Serine-Assisted Synthesis of Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> Nanocubes for Lithium Ion Batteries. <b>2011</b> , 115, 24688-24695	60
2103	Comparing one- and two-dimensional heteronanostructures as silicon-based lithium ion battery anode materials. <b>2011</b> , 5, 9225-31	66
2102	Diagnostics, theragnostics, and the personal health server: fundamental milestones in technology with revolutionary changes in diabetic foot and wound care to come. <b>2011</b> , 4, 54-60	7
2101	An X-ray Absorption Spectroscopy Study of the Cathodic Discharge of Ag <sub>2</sub> VO <sub>2</sub> PO <sub>4</sub> : Geometric and Electronic Structure Characterization of Intermediate phases and Mechanistic Insights. <b>2011</b> , 115, 14437-14447	27
2100	Preparation and Characterization of Polyfluorene-Based Supramolecular Conjugated Polymer Gels. <b>2011</b> , 115, 4418-4424	79
2099	Template-free solvothermal synthesis of yolk-shell V <sub>2</sub> O <sub>5</sub> microspheres as cathode materials for Li-ion batteries. <b>2011</b> , 47, 10380-2	136
2098	Nanostructured cathode materials: a key for better performance in Li-ion batteries. <b>2011</b> , 21, 11040	81
2097	Li ion diffusion mechanisms in LiFePO <sub>4</sub> : an ab initio molecular dynamics study. <b>2011</b> , 115, 13045-9	89
2096	Facile Preparation of Monolithic LiFePO <sub>4</sub> /Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. <b>2011</b> , 23, 5208-5216	77
2095	Co <sub>3</sub> O <sub>4</sub> @graphene composites as anode materials for high-performance lithium ion batteries. <b>2011</b> , 50, 1628-32	324
2094	Solvothermal synthesis of lithium iron phosphate nanoplates. <b>2011</b> , 21, 9994	136
2093	What is the choice for supercapacitors: graphene or graphene oxide?. <b>2011</b> , 4, 2826	568
2092	Multiconstituent Synthesis of LiFePO <sub>4</sub> /C Composites with Hierarchical Porosity as Cathode Materials for Lithium Ion Batteries. <b>2011</b> , 23, 3237-3245	93
2091	Confirmation of the Domino-Cascade Model by LiFePO <sub>4</sub> /FePO <sub>4</sub> Precession Electron Diffraction. <b>2011</b> , 23, 4515-4524	125

2090	Better lithium-ion batteries with nanocable-like electrode materials. <b>2011</b> , 4, 1634	114
2089	Improved performances of $\text{Ni(OH)}_2$ @reduced-graphene-oxide in Ni-MH and Li-ion batteries. <b>2011</b> , 47, 3159-61	113
2088	Spinel $\text{LiMn}_2\text{O}_4$ /reduced graphene oxide hybrid for high rate lithium ion batteries. <b>2011</b> , 21, 17309	121
2087	Suppression of phase separation in $\text{LiFePO}_4$ nanoparticles during battery discharge. <b>2011</b> , 11, 4890-6	336
2086	Interconnected silicon hollow nanospheres for lithium-ion battery anodes with long cycle life. <b>2011</b> , 11, 2949-54	1155
2085	Porous $\text{LiMn}_2\text{O}_4$ as cathode material with high power and excellent cycling for aqueous rechargeable lithium batteries. <b>2011</b> , 4, 3985	307
2084	Precipitation Revisited: Shape Control of $\text{LiFePO}_4$ Nanoparticles by Combinatorial Precipitation. <b>2011</b> , 115, 12255-12259	36
2083	Nanomaterials of high surface energy with exceptional properties in catalysis and energy storage. <b>2011</b> , 40, 4167-85	668
2082	Wet chemical synthesis of $\text{Cu/TiO}_2$ nanocomposites with integrated nano-current-collectors as high-rate anode materials in lithium-ion batteries. <b>2011</b> , 13, 2014-20	66
2081	Anisotropic swelling and fracture of silicon nanowires during lithiation. <b>2011</b> , 11, 3312-8	608
2080	$\text{NiO}$ nanocone array electrode with high capacity and rate capability for Li-ion batteries. <b>2011</b> , 21, 9988	186
2079	Solid state synthesis of $\text{LiFePO}_4$ studied by in situ high energy X-ray diffraction. <b>2011</b> , 21, 5604	40
2078	Designing High-Capacity, Lithium-Ion Cathodes Using X-ray Absorption Spectroscopy. <b>2011</b> , 23, 5415-5424	78
2077	First-principles study of competing mechanisms of nondilute Li diffusion in spinel $\text{Li}_x\text{TiS}_2$ . <b>2011</b> , 83,	57
2076	Inelastic hosts as electrodes for high-capacity lithium-ion batteries. <b>2011</b> , 109, 016110	135
2075	Olivine $\text{LiFePO}_4$ : development and future. <b>2011</b> , 4, 805-817	273
2074	One pot synthesis of self-assembled $\text{V}_2\text{O}_5$ nanobelt membraneviacapsule-like hydrated precursor as improved cathode for Li-ion battery. <b>2011</b> , 21, 10336	30
2073	Calculations of Li-Ion Diffusion in Olivine Phosphates. <b>2011</b> , 23, 4032-4037	193

2072	In situ TEM electrochemistry of anode materials in lithium ion batteries. <b>2011</b> , 4, 3844	372
2071	Nanostructure design of amorphous FePO <sub>4</sub> facilitated by a virus for 3 V lithium ion battery cathodes. <b>2011</b> , 21, 1033-1039	63
2070	Symmetrical MnO <sub>2</sub> -carbon nanotube-textile nanostructures for wearable pseudocapacitors with high mass loading. <b>2011</b> , 5, 8904-13	540
2069	Heterogeneous nanostructured electrode materials for electrochemical energy storage. <b>2011</b> , 47, 1384-404	419
2068	Carbon-Coated V <sub>2</sub> O <sub>5</sub> Nanocrystals as High Performance Cathode Material for Lithium Ion Batteries. <b>2011</b> , 23, 5290-5292	213
2067	Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /graphene nanocomposites as cathode material for lithium ion batteries. <b>2011</b> , 47, 9110-2	185
2066	Synthesis and Electrochemical Properties of Monoclinic LiMnBO <sub>3</sub> as a Li Intercalation Material. <b>2011</b> , 158, A309	87
2065	Atomistic investigation of Li <sup>+</sup> diffusion pathways in the olivine LiFePO <sub>4</sub> cathode material. <b>2011</b> , 21, 16365	33
2064	Existence of Superstructures Due to Large Amounts of Fe Vacancies in the LiFePO <sub>4</sub> -Type Framework. <b>2011</b> , 23, 32-38	30
2063	Modeling and Simulation of Battery Systems. <b>2011</b> , 841-875	6
2062	Designed strategy to fabricate a patterned V <sub>2</sub> O <sub>5</sub> nanobelt array as a superior electrode for Li-ion batteries. <b>2011</b> , 21, 2362-2368	89
2061	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. <b>2011</b> , 21, 3046	423
2060	Facile Synthesis for LiFePO <sub>4</sub> Nanospheres in Tridimensional Porous Carbon Framework for Lithium Ion Batteries. <b>2011</b> , 115, 2888-2894	94
2059	Electrochemical performances of LiMnPO <sub>4</sub> synthesized from non-stoichiometric Li/Mn ratio. <b>2011</b> , 13, 18099-106	27
2058	A high-throughput infrastructure for density functional theory calculations. <b>2011</b> , 50, 2295-2310	609
2057	Who will drive electric vehicles, olivine or spinel?. <b>2011</b> , 4, 1621	489
2056	The Future of Energy II: Renewable Energy. <b>2011</b> , 75-175	1
2055	Li mobility in Nasicon-type materials LiM <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> , M = Ge, Ti, Sn, Zr and Hf, followed by <sup>7</sup> Li NMR spectroscopy. <b>2011</b> , 40, 10195-202	25

2054	Graphene surface-enabled lithium ion-exchanging cells: next-generation high-power energy storage devices. <b>2011</b> , 11, 3785-91		212
2053	Evaluation of Favorite-Structured Cathode Materials for Lithium-Ion Batteries Using High-Throughput Computing. <b>2011</b> , 23, 3854-3862		209
2052	Designed synthesis of SnO <sub>2</sub> -polyaniline-reduced graphene oxide nanocomposites as an anode material for lithium-ion batteries. <b>2011</b> , 21, 17654		110
2051	Kinetics of non-equilibrium lithium incorporation in LiFePO <sub>4</sub> . <b>2011</b> , 10, 587-90		401
2050	Hierarchically porous and conductive LiFePO <sub>4</sub> bulk electrode: binder-free and ultrahigh volumetric capacity Li-ion cathode. <b>2011</b> , 21, 12444		42
2049	Recent advances in the research of polyanion-type cathode materials for Li-ion batteries. <b>2011</b> , 4, 3223		416
2048	Solution processing of V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> composite films for enhanced Li-ion intercalation properties. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 909-915	5-7	18
2047	XRD simulation study of doped LiFePO <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1206-1210	5-7	14
2046	LiFePO <sub>4</sub> /C composite cathode material with a continuous porous carbon network for high power lithium-ion battery. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 3690-3698	5-7	34
2045	Electrochemical performances of Co-doped LiFePO <sub>4</sub> /C obtained by hydrothermal method. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9010-9014	5-7	20
2044	Enhanced anode performances of the Fe <sub>3</sub> O <sub>4</sub> -carbon-rGO three dimensional composite in lithium ion batteries. <b>2011</b> , 47, 10374-6		172
2043	Improving the performance of lithium-sulfur batteries by conductive polymer coating. <b>2011</b> , 5, 9187-93		756
2042	Effects of carbonaceous materials on the physical and electrochemical performance of a LiFePO <sub>4</sub> cathode for lithium-ion batteries. <b>2011</b> , 26, 161-170		35
2041	Graphene/V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O xerogel composite cathodes for lithium ion batteries. <b>2011</b> , 1, 690		77
2040	Carbon Coated LiMnPO <sub>4</sub> Nanorods for Lithium Batteries. <b>2011</b> , 158, A227		73
2039	Nanostructured carbon-based electrodes: bridging the gap between thin-film lithium-ion batteries and electrochemical capacitors. <b>2011</b> , 4, 1972		319
2038	Rapid Electron Dynamics at Fe Atoms in Nanocrystalline Li <sub>0.5</sub> FePO <sub>4</sub> Studied by Mössbauer Spectrometry. <b>2011</b> , 115, 7787-7792		10
2037	Effect of ball-milling and lithium insertion on the lithium mobility and structure of Li <sub>3</sub> Fe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <b>2011</b> , 21, 10012		20

2036	Citric Acid- and Ammonium-Mediated Morphological Transformations of Olivine LiFePO <sub>4</sub> Particles. <b>2011</b> , 23, 2848-2859	64
2035	Doped graphene sheets as anode materials with superhigh rate and large capacity for lithium ion batteries. <b>2011</b> , 5, 5463-71	1700
2034	Anisotropic Phase Boundary Morphology in Nanoscale Olivine Electrode Particles. <b>2011</b> , 115, 4922-4926	84
2033	MATERIAL PROBLEMS AND PROSPECTS OF LI-ION BATTERIES FOR VEHICLES APPLICATIONS. <b>2011</b> , 04, 107-112	26
2032	Enhanced Electrochemical Properties of LiFePO <sub>4</sub> Electrodes with Carboxylated Poly(vinyl difluoride) in Lithium-Ion Batteries: Experimental and Theoretical Analysis. <b>2011</b> , 115, 16242-16246	13
2031	LiFePO <sub>4</sub> Cathode Material. <b>2011</b> ,	14
2030	Plug-in Hybrid Vehicles. <b>2011</b> ,	2
2029	Lithium-Ion Batteries: Li <sup>6,7</sup> MAS NMR Studies on Materials. <b>2011</b> ,	1
2028	Lithium-Ion Batteries: Li <sup>6,7</sup> MAS NMR Studies on Materials. <b>2011</b> ,	
2027	Asymmetry in anodic and cathodic polarization profile for LiFePO <sub>4</sub> positive electrode in rechargeable Li ion battery. <b>2011</b> , 119, 692-696	11
2026	Electric Vehicles and The Benefits and Barriers. <b>2011</b> ,	17
2025	Comparison of Lithium-Ion Battery Cathode Materials and the Internal Stress Development. <b>2011</b> ,	1
2024	Improved Performance of Hydrothermally Synthesized LiMnPO <sub>4</sub> by Mg Doping. <b>2011</b> , 79, 467-469	8
2023	Crystallization Behavior of Lithium Iron Phosphate Glass Powders in Different Atmospheres. <b>2011</b> , 94, 2890-2895	9
2022	Three-dimensional bicontinuous ultrafast-charge and -discharge bulk battery electrodes. <b>2011</b> , 6, 277-81	940
2021	Electrochemical and TOF-SIMS investigations of PPy/PEG-modified LiFePO <sub>4</sub> composite electrodes for Li-ion batteries. <b>2011</b> , 13, 824-830	13
2020	Modeling study of Li ion diffusion and microstructure of LiFePO <sub>4</sub> . <b>2011</b> , 13, 1510-1515	5
2019	Ionic transport properties of LiCoPO <sub>4</sub> cathode material. <b>2011</b> , 13, 1714-1718	22



2018	Nanosized Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene hybrid materials with low polarization for high rate lithium ion batteries. <b>2011</b> , 196, 8610-8617	277
2017	Multi-parameter battery state estimator based on the adaptive and direct solution of the governing differential equations. <b>2011</b> , 196, 8735-8741	45
2016	A fast synthesis of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> crystals via glass-ceramic processing and their battery performance. <b>2011</b> , 196, 9618-9624	34
2015	Composite electrodes of disordered carbon and graphite for improved battery state estimation with minimal performance penalty. <b>2011</b> , 196, 9648-9653	9
2014	LiCr <sub>0.2</sub> Ni <sub>0.4</sub> Mn <sub>1.4</sub> O <sub>4</sub> spinels exhibiting huge rate capability at 25 and 55 °C: Analysis of the effect of the particle size. <b>2011</b> , 196, 10222-10227	37
2013	A general solution-chemistry route to the synthesis LiMPO <sub>4</sub> (M=Mn, Fe, and Co) nanocrystals with [010] orientation for lithium ion batteries. <b>2011</b> , 184, 2909-2919	46
2012	TiO <sub>2</sub> nanorods branched on fast-synthesized large clearance TiO <sub>2</sub> nanotube arrays for dye-sensitized solar cells. <b>2011</b> , 184, 2936-2940	16
2011	Microwave homogeneous synthesis of porous nanowire Co <sub>3</sub> O <sub>4</sub> arrays with high capacity and rate capability for lithium ion batteries. <b>2011</b> , 126, 747-754	50
2010	One-pot syntheses of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathode material for lithium ion batteries via ascorbic acid reduction approach. <b>2011</b> , 128, 470-474	21
2009	Suppressing Li <sub>3</sub> PO <sub>4</sub> impurity formation in LiFePO <sub>4</sub> /Fe <sub>2</sub> P by a nonstoichiometry synthesis and its effect on electrochemical properties. <b>2011</b> , 65, 1323-1326	32
2008	Improved performance for lithium-ion batteries with nickel nanocone-arrays supported germanium anode. <b>2011</b> , 65, 1542-1544	12
2007	Performance of Si <sub>3</sub> N <sub>4</sub> /Ni nanorod as anode for Li-ion batteries. <b>2011</b> , 65, 3227-3229	21
2006	LiMn <sub>2</sub> O <sub>4</sub> nanorods as a super-fast cathode material for aqueous rechargeable lithium batteries. <b>2011</b> , 13, 1159-1162	85
2005	Porous hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanorods as an anode material with enhanced rate capability in lithium-ion batteries. <b>2011</b> , 13, 1439-1442	67
2004	Ordered mesoporous carbon/sulfur nanocomposite of high performances as cathode for lithium-sulfur battery. <b>2011</b> , 56, 9549-9555	303
2003	Enhancement of F-doping on the electrochemical behavior of carbon-coated LiFePO <sub>4</sub> nanoparticles prepared by hydrothermal route. <b>2011</b> , 56, 8833-8838	78
2002	Fabrication and electrochemical capacitance of hierarchical graphene/polyaniline/carbon nanotube ternary composite film. <b>2011</b> , 56, 9224-9232	150
2001	Nanoporous Ag and Pd foam: Redox induced fabrication using electrochemically deposited nanoporous Cu foam with no need to any additive. <b>2011</b> , 56, 9520-9529	28

2000	An effective method for preparing uniform carbon coated nano-sized LiFePO <sub>4</sub> particles. <b>2011</b> , 58, 359-363	30
1999	Synthesis of silicon/carbon, multi-core/shell microspheres using solution polymerization for a high performance Li ion battery. <b>2011</b> , 58, 578-582	24
1998	Pr-doped ceria nanoparticles as intermediate temperature ionic conductors. <b>2011</b> , 36, 10981-10990	21
1997	Development and challenges of LiFePO <sub>4</sub> cathode material for lithium-ion batteries. <b>2011</b> , 4, 269-284	898
1996	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. <b>2011</b> , 4, 4978	50
1995	Graphene modified LiFePO <sub>4</sub> cathode materials for high power lithium ion batteries. <b>2011</b> , 21, 3353	420
1994	Phosphates as Lithium-Ion Battery Cathodes: An Evaluation Based on High-Throughput ab Initio Calculations. <b>2011</b> , 23, 3495-3508	317
1993	Copper hexacyanoferrate battery electrodes with long cycle life and high power. <b>2011</b> , 2, 550	679
1992	Challenges in the development of advanced Li-ion batteries: a review. <b>2011</b> , 4, 3243	4665
1991	Silicon nanopowder as active material for hybrid electrodes of lithium-ion batteries. <b>2011</b> , 84, 1179-1187	11
1990	A novel method with low-cost Fe <sub>2</sub> O <sub>3</sub> to synthesize small size LiFePO <sub>4</sub> by carbothermal reduction method. <b>2011</b> , 47, 1068-1071	6
1989	Synthesis and performance of carbon-coated Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials for lithium-ion batteries. <b>2011</b> , 47, 1399-1403	2
1988	Optimization of preparing LiFePO <sub>4</sub> for lithium-ion batteries via carbothermal reduction route. <b>2011</b> , 47, 1389-1393	7
1987	Organic tailored batteries materials using stable open-shell molecules with degenerate frontier orbitals. <b>2011</b> , 10, 947-51	402
1986	Hollow carbon nanofiber-encapsulated sulfur cathodes for high specific capacity rechargeable lithium batteries. <b>2011</b> , 11, 4462-7	1096
1985	Structure and Electrochemistry of Two-Electron Redox Couples in Lithium Metal Fluorophosphates Based on the Tavorite Structure. <b>2011</b> , 23, 5138-5148	94
1984	Study of LiFePO <sub>4</sub> synthesized using a molten method with varying stoichiometries. <b>2011</b> , 15, 1217-1225	13
1983	Strain accommodation and potential hysteresis of LiFePO <sub>4</sub> cathodes during lithium ion insertion/extraction. <b>2011</b> , 196, 1442-1448	59

1982	Cathode performance of LiMnPO <sub>4</sub> /C nanocomposites prepared by a combination of spray pyrolysis and wet ball-milling followed by heat treatment. <b>2011</b> , 196, 1399-1408	79
1981	Safe and fast-charging Li-ion battery with long shelf life for power applications. <b>2011</b> , 196, 3949-3954	250
1980	Cycle-life model for graphite-LiFePO <sub>4</sub> cells. <b>2011</b> , 196, 3942-3948	844
1979	Solid-state synthesis of embedded single-crystal metal oxide and phosphate nanoparticles and in situ crystallization. <b>2011</b> , 362, 21-32	8
1978	Thermal reactivity of three lithiated carbonaceous materials. <b>2011</b> , 17, 183-188	3
1977	Design and comparison of ex situ and in situ devices for Raman characterization of lithium titanate anode material. <b>2011</b> , 17, 503-509	45
1976	Studies on lithium bis(oxalato)-borate/propylene carbonate-based electrolytes for Li-ion batteries. <b>2011</b> , 17, 491-494	18
1975	A carbonâLiFePO <sub>4</sub> nanocomposite as high-performance cathode material for lithium-ion batteries. <b>2011</b> , 17, 581-586	9
1974	High power lithium ion battery materials by computational design. <b>2011</b> , 208, 1746-1753	178
1973	Functional materials for rechargeable batteries. <b>2011</b> , 23, 1695-715	1269
1972	Sandwich-like, stacked ultrathin titanate nanosheets for ultrafast lithium storage. <b>2011</b> , 23, 998-1002	198
1971	V <sub>2</sub> O <sub>5</sub> loaded on SnO <sub>2</sub> nanowires for high-rate li ion batteries. <b>2011</b> , 23, 746-50	127
1970	Mussel-inspired polydopamine-treated polyethylene separators for high-power li-ion batteries. <b>2011</b> , 23, 3066-70	560
1969	Mesoporous TiO <sub>2</sub> -B microspheres with superior rate performance for lithium ion batteries. <b>2011</b> , 23, 3450-4	330
1968	Nanoporous gyroid nickel from block copolymer templates via electroless plating. <b>2011</b> , 23, 3041-6	124
1967	Structure and properties of functional oxide thin films: insights from electronic-structure calculations. <b>2011</b> , 23, 3363-81	284
1966	Multiscale modeling of composite materials: a roadmap towards virtual testing. <b>2011</b> , 23, 5130-47	233
1965	Cu-Si nanocable arrays as high-rate anode materials for lithium-ion batteries. <b>2011</b> , 23, 4415-20	266

1964	Polymers with tailored electronic structure for high capacity lithium battery electrodes. <b>2011</b> , 23, 4679-83	450
1963	Novel Three-Dimensional Mesoporous Silicon for High Power Lithium-Ion Battery Anode Material. <b>2011</b> , 1, 1036-1039	352
1962	Electrospinning of Highly Electroactive Carbon-Coated Single-Crystalline LiFePO <sub>4</sub> Nanowires. <b>2011</b> , 123, 6402-6406	24
1961	LiZnSO <sub>4</sub> F Made in an Ionic Liquid: A Ceramic Electrolyte Composite for Solid-State Lithium Batteries. <b>2011</b> , 123, 2574-2579	8
1960	LiMn <sub>1-x</sub> Fe <sub>x</sub> PO <sub>4</sub> Nanorods Grown on Graphene Sheets for Ultrahigh-Rate-Performance Lithium Ion Batteries. <b>2011</b> , 123, 7502-7506	86
1959	Electrospinning of highly electroactive carbon-coated single-crystalline LiFePO <sub>4</sub> nanowires. <b>2011</b> , 50, 6278-82	211
1958	LiZnSO <sub>4</sub> F made in an ionic liquid: a ceramic electrolyte composite for solid-state lithium batteries. <b>2011</b> , 50, 2526-31	72
1957	LiMn(1-x)Fe(x)PO <sub>4</sub> nanorods grown on graphene sheets for ultrahigh-rate-performance lithium ion batteries. <b>2011</b> , 50, 7364-8	248
1956	Portable Energiesysteme: Von elektrochemischer Wandlung bis Energy Harvesting. <b>2011</b> , 83, 1974-1983	7
1955	Effective enhancement of lithium-ion battery performance using SLMP. <b>2011</b> , 13, 664-667	66
1954	Aluminothermal synthesis and characterization of Li <sub>3</sub> V <sub>2</sub> Al <sub>x</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials for lithium ion batteries. <b>2011</b> , 56, 2823-2827	86
1953	High power performance of nano-LiFePO <sub>4</sub> /C cathode material synthesized via lauric acid-assisted solid-state reaction. <b>2011</b> , 56, 2999-3005	47
1952	Synthesis of FePO <sub>4</sub> ·2H <sub>2</sub> O nanoplates and their usage for fabricating superior high-rate performance LiFePO <sub>4</sub> . <b>2011</b> , 56, 4294-4298	38
1951	Enhanced rate performance of nano-micro structured LiFePO <sub>4</sub> /C by improved process for high-power Li-ion batteries. <b>2011</b> , 56, 4865-4868	35
1950	Effect of carbon coating on low temperature electrochemical performance of LiFePO <sub>4</sub> /C by using polystyrene sphere as carbon source. <b>2011</b> , 56, 5054-5059	52
1949	Improvement of electrochemical and thermal stability of LiFePO <sub>4</sub> @C batteries by depositing amorphous silicon film. <b>2011</b> , 56, 4937-4941	5
1948	Synthesis and characterization of graphene-nickel oxide nanostructures for fast charge-discharge application. <b>2011</b> , 56, 5815-5822	119
1947	A mechanism for the improved rate capability of cathodes by lithium phosphate surficial films. <b>2011</b> , 13, 200-202	39

1946	Effects of synthetic route on structure and electrochemical performance of $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ cathode materials. <b>2011</b> , 56, 4139-4145	66
1945	Amorphous silicon-carbon based nano-scale thin film anode materials for lithium ion batteries. <b>2011</b> , 56, 4717-4723	102
1944	Effects of tin doping on physicochemical and electrochemical performances of $\text{LiFe}_{1-x}\text{Sn}_x\text{PO}_4/\text{C}$ (0 ≤ x ≤ 0.07) composite cathode materials. <b>2011</b> , 56, 7385-7391	35
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1942	A polyethylene glycol-assisted carbothermal reduction method to synthesize $\text{LiFePO}_4$ using industrial raw materials. <b>2011</b> , 196, 2810-2818	42
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1939	Novel hedgehog-like 5V $\text{LiCoPO}_4$ positive electrode material for rechargeable lithium battery. <b>2011</b> , 196, 4806-4810	67
1938	The doping effect on the crystal structure and electrochemical properties of $\text{LiMn}_x\text{M}_{1-x}\text{PO}_4$ (M=Mg, V, Fe, Co, Gd). <b>2011</b> , 196, 4747-4755	126
1937	Modelling the thermal behaviour of a lithium-ion battery during charge. <b>2011</b> , 196, 5115-5121	127
1936	Active lithium replenishment to extend the life of a cell employing carbon and iron phosphate electrodes. <b>2011</b> , 196, 5966-5969	19
1935	Raman spectroscopy of carbon-coated $\text{LiCoPO}_4$ and $\text{LiFePO}_4$ olivines. <b>2011</b> , 196, 6433-6439	104
1934	Nano-sized $\text{LiMn}_2\text{O}_4$ spinel cathode materials exhibiting high rate discharge capability for lithium-ion batteries. <b>2011</b> , 196, 6493-6497	55
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1931	Influence of particle size on solid solution formation and phase interfaces in $\text{Li}_{0.5}\text{FePO}_4$ revealed by $^{31}\text{P}$ and $^7\text{Li}$ solid state NMR spectroscopy. <b>2011</b> , 13, 5171-7	27
1930	Comparison of small polaron migration and phase separation in olivine $\text{LiMnPO}_4$ and $\text{LiFePO}_4$ using hybrid density functional theory. <b>2011</b> , 83,	117
1929	Preparation and characterization of $\text{LiFePO}_4/\text{Ag}$ nanocomposites for application in Li-ion batteries. <b>2011</b> ,	

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1927	Fourier Transform Electrochemical Impedance Spectroscopic Studies on LiFePO <sub>4</sub> Nanoparticles of Hollow Sphere Secondary Structures. <b>2011</b> , 158, A1267	17
1926	Preparation and Characterization of Three Dimensional Sn-Co Alloy Based on Porous Ni for Lithium-Ion Batteries. <b>2011</b> , 399-401, 1457-1460	
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1922	Effect on the Characteristic and Properties of Carbon Coated LiFePO <sub>4</sub> /C Composite. <b>2011</b> , 689, 367-371	
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1919	Synthesis of LiV <sub>3</sub> O <sub>8</sub> nanorods and shape-dependent electrochemical performance. <b>2011</b> , 26, 424-429	3
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1915	Nonequilibrium Phase Transformation and Particle Shape Effect in LiFePO <sub>4</sub> Materials for Li-Ion Batteries. <b>2011</b> , 14, A143	16
1914	Mixtures of TiO <sub>2</sub> ·0.2H <sub>2</sub> O and LiFePO <sub>4</sub> as Li-ion Battery Cathode Materials. <b>2012</b> , 512-515, 1592-1597	
1913	Global Utilization of Solar Energy and Development of Solar Cell Materials. <b>2012</b> , 608-609, 151-154	
1912	Thin Film Electrodes of Prussian Blue Analogues with Rapid Li <sup>+</sup> Intercalation. <b>2012</b> , 5, 041801	33
1911	LiFePO <sub>4</sub> /Porous Carbon Nanocomposite Cathode Material for Lithium Ion Batteries. <b>2012</b> , 722, 11-16	1

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1900	3D-ordered Nanoporous LiMPO <sub>4</sub> (M = Fe, Mn)/Carbon Composites with Excellent Charging/Discharging Rate-capability. <b>2012</b> , 41, 1639-1641	8
1899	All-solid-state Lithium Secondary Batteries Using Li <sub>2</sub> S/P <sub>2</sub> S <sub>5</sub> Solid Electrolytes and LiFePO <sub>4</sub> Electrode Particles with Amorphous Surface Layer. <b>2012</b> , 41, 260-261	24
1898	$\text{FeMoO}_3$ Hollow Nanospheres as an Anode Material for Li-Ion Batteries. <b>2012</b> , 85, 642-646	18
1897	1D hollow $\text{Fe}_2\text{O}_3$ electrospun nanofibers as high performance anode material for lithium ion batteries. <b>2012</b> , 22, 23049	207
1896	Understanding and recent development of carbon coating on LiFePO <sub>4</sub> cathode materials for lithium-ion batteries. <b>2012</b> , 5, 5163-5185	729
1895	Enhanced overcharge performance of nano-LiCoO <sub>2</sub> by novel Li <sub>3</sub> VO <sub>4</sub> surface coatings. <b>2012</b> , 4, 6743-7	45
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1889	Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. <b>2012</b> , 116, 26685-26693	73
1888	Synthesis of Nanometric LiMnPO <sub>4</sub> via a Two-Step Technique. <b>2012</b> , 24, 1041-1047	86
1887	Columnar order in jammed LiFePO <sub>4</sub> cathodes: ion transport catastrophe and its mitigation. <b>2012</b> , 14, 7040-50	36
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1883	Spin-coated silicon nanoparticle/graphene electrode as a binder-free anode for high-performance lithium-ion batteries. <b>2012</b> , 5, 845-853	105
1882	Nano-engineered Silicon Anodes for Lithium-Ion Rechargeable Batteries. <b>2012</b> , 43-66	
1881	Substrate-assisted self-organization of radial AgVO <sub>4</sub> nanowire clusters for high rate rechargeable lithium batteries. <b>2012</b> , 12, 4668-73	54
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1879	Recent progress in cathode materials research for advanced lithium ion batteries. <b>2012</b> , 73, 51-65	515
1878	Low-temperature synthesis of amorphous FeP <sub>2</sub> and its use as anodes for Li ion batteries. <b>2012</b> , 134, 5532-5	116
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1876	Synthesis of amorphous acid iron phosphate nanoparticles. <b>2012</b> , 14, 1	11
1875	Facile synthesis of porous-carbon/LiFePO <sub>4</sub> nanocomposites. <b>2012</b> , 14, 1	14



1874	Improved electrochemical performances of nanocrystalline LiFePO <sub>4</sub> /C composite cathode via V-doping and VO <sub>2</sub> (B) coating. <b>2012</b> , 73, 1463-1468	7
1873	OWER-MDG: A novel energy replenishment and data gathering mechanism in wireless rechargeable sensor networks. <b>2012</b> ,	9
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1870	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. <b>2012</b> , 22, 18908	18
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1868	A graphene-amorphous FePO <sub>4</sub> hollow nanosphere hybrid as a cathode material for lithium ion batteries. <b>2012</b> , 48, 2137-9	83
1867	Conductive surface modification of LiFePO <sub>4</sub> with nitrogen-doped carbon layers for lithium-ion batteries. <b>2012</b> , 22, 4611	70
1866	Coextrusion of Zirconia/Iron Oxide Honeycomb Substrates for Solar-Based Thermochemical Generation of Carbon Monoxide for Renewable Fuels. <b>2012</b> , 26, 712-721	19
1865	High rate delithiation behaviour of LiFePO <sub>4</sub> studied by quick X-ray absorption spectroscopy. <b>2012</b> , 48, 11537-9	50
1864	Interconnected core-shell MoO <sub>2</sub> microcapsules with nanorod-assembled shells as high-performance lithium-ion battery anodes. <b>2012</b> , 22, 13334	103
1863	Spectroscopic understanding of ultra-high rate performance for LiMn(0.75)Fe(0.25)PO <sub>4</sub> nanorods-graphene hybrid in lithium ion battery. <b>2012</b> , 14, 9578-81	43
1862	. <b>2012</b> ,	111
1861	Optimized evolution of a secondary structure of LiFePO <sub>4</sub> : balancing between shape and impurities. <b>2012</b> , 22, 8228	8
1860	Self-assembled porous hierarchical-like CoO@C microsheets transformed from inorganic-organic precursors and their lithium-ion battery application. <b>2012</b> , 14, 2669	63
1859	Excellent cycle performance of Co-doped FeF <sub>3</sub> /C nanocomposite cathode material for lithium-ion batteries. <b>2012</b> , 22, 17539	95
1858	An amorphous wrapped nanorod LiV <sub>3</sub> O <sub>8</sub> electrode with enhanced performance for lithium ion batteries. <b>2012</b> , 2, 7273	36
1857	Improved cyclability of lithium-ion battery anode using encapsulated V <sub>2</sub> O <sub>3</sub> nanostructures in well-graphitized carbon fiber. <b>2012</b> , 2, 5748	59

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1852	Dislocation Based Stress Developments in Lithium-Ion Batteries. <b>2012</b> , 159, A815-A821	32
1851	Self-Assembled LiFePO <sub>4</sub> /C Nano/Microspheres by Using Phytic Acid as Phosphorus Source. <b>2012</b> , 116, 5019-5024	93
1850	Hydrothermal Synthesis and Characterization of LiZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <b>2012</b> , 512-515, 195-198	
1849	A nanonet-enabled Li ion battery cathode material with high power rate, high capacity, and long cycle lifetime. <b>2012</b> , 6, 919-24	62
1848	Freestanding Macroporous Silicon and Pyrolyzed Polyacrylonitrile As a Composite Anode for Lithium Ion Batteries. <b>2012</b> , 24, 2998-3003	102
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1846	First principles study on electronic properties and occupancy sites of molybdenum doped into LiFePO <sub>4</sub> . <b>2012</b> , 152, 1577-1580	19
1845	Enhanced electrochemical performance of Li <sub>4</sub> SiO <sub>4</sub> -coated LiFePO <sub>4</sub> prepared by sol-gel method and microwave heating. <b>2012</b> , 218, 31-34	26
1844	Cation disordered rock salt phase Li <sub>2</sub> CoTiO <sub>4</sub> as a potential cathode material for Li-ion batteries. <b>2012</b> , 22, 6200	37
1843	Critical Role of Oxygen Evolved from Layered Li-excess Metal Oxides in Lithium Rechargeable Batteries. <b>2012</b> , 24, 2692-2697	213
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1840	A Computational Investigation of Li <sub>9</sub> M <sub>3</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (M = V, Mo) as Cathodes for Li Ion Batteries. <b>2012</b> , 159, A622-A633	65
1839	Facile synthesis of MoS <sub>2</sub> @CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. <b>2012</b> , 4, 5868-71	225

1838	High-capacity micrometer-sized Li <sub>2</sub> S particles as cathode materials for advanced rechargeable lithium-ion batteries. <b>2012</b> , 134, 15387-94		524
1837	Nanomaterials for renewable energy production and storage. <b>2012</b> , 41, 7909-37		729
1836	LiFePO <sub>4</sub> (4) nanocrystals: liquid-phase reduction synthesis and their electrochemical performance. <b>2012</b> , 4, 3062-8		30
1835	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. <b>2012</b> , 109, 17360-5		653
1834	Theory of sorption hysteresis in nanoporous solids: Part II Molecular condensation. <b>2012</b> , 60, 1660-1675		37
1833	Graphene/metal oxide composite electrode materials for energy storage. <b>2012</b> , 1, 107-131		1507
1832	Synthesis and electrochemical properties of carbon nano-tubes modified spherical Li <sub>2</sub> FeSiO <sub>4</sub> cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 525, 110-113	5-7	29
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1830	Monolithic co-aerogels of carbon/titanium dioxide as three dimensional nanostructured electrodes for energy storage. <b>2012</b> , 218, 140-147		19
1829	Improved cycling performance of 5V spinel LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> by amorphous FePO <sub>4</sub> coating. <b>2012</b> , 219, 333-338		64
1828	Synthesis of cage-like LiFePO <sub>4</sub> /C microspheres for high performance lithium ion batteries. <b>2012</b> , 220, 342-347		22
1827	SnO <sub>2</sub> encapsulated TiO <sub>2</sub> hollow nanofibers as anode material for lithium ion batteries. <b>2012</b> , 22, 81-84		51
1826	Synthesis of dense nanocavities inside TiO <sub>2</sub> nanowire array and its electrochemical properties as a three-dimensional anode material for Li-ion batteries. <b>2012</b> , 78, 154-159		21
1825	Hollow carbon spheres with encapsulation of Co <sub>3</sub> O <sub>4</sub> nanoparticles as anode material for lithium ion batteries. <b>2012</b> , 78, 440-445		49
1824	In situ gelatin carbonation to prepare a binder-free LiFePO <sub>4</sub> cathode for high-power lithium ion batteries. <b>2012</b> , 78, 563-568		11
1823	Nanoarchitected Fe <sub>3</sub> O <sub>4</sub> array electrode and its excellent lithium storage performance. <b>2012</b> , 78, 585-591		28
1822	Effects of titanium incorporation on phase and electrochemical performance in LiFePO <sub>4</sub> cathode material. <b>2012</b> , 78, 576-584		26
1821	Stable cycling of double-walled silicon nanotube battery anodes through solid-electrolyte interphase control. <b>2012</b> , 7, 310-5		1831

1820	Crystal orientation tuning of LiFePO <sub>4</sub> nanoplates for high rate lithium battery cathode materials. <b>2012</b> , 12, 5632-6	273
1819	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. <b>2012</b> , 124, 10134-10166	176
1818	Carbon-Coated Single-Crystal LiMn <sub>2</sub> O <sub>4</sub> Nanoparticle Clusters as Cathode Material for High-Energy and High-Power Lithium-Ion Batteries. <b>2012</b> , 124, 8878-8882	36
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1816	Application of nanomedicine in emergency medicine; Point-of-care testing and drug delivery in twenty - first century. <b>2012</b> , 20, 26	11
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1814	High power rechargeable batteries. <b>2012</b> , 16, 186-198	145
1813	Kinetics of Nucleation and Growth in Two-Phase Electrochemical Reaction of Li <sub>x</sub> FePO <sub>4</sub> . <b>2012</b> , 116, 7306-7311	78
1812	Microstructural design considerations for Li-ion battery systems. <b>2012</b> , 16, 153-162	55
1811	Enhanced Li <sup>+</sup> ion transport in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> through control of site disorder. <b>2012</b> , 14, 13515-21	137
1810	In situ redox functionalization of composite electrodes for high power&high energy electrochemical storage systems via a non-covalent approach. <b>2012</b> , 5, 5379-5386	35
1809	Ultrathin CoO/Graphene Hybrid Nanosheets: A Highly Stable Anode Material for Lithium-Ion Batteries. <b>2012</b> , 116, 20794-20799	142
1808	Synthesis of LiMnPO <sub>4</sub> microspheres assembled by plates, wedges and prisms with different crystallographic orientations and their electrochemical performance. <b>2012</b> , 14, 6412	29
1807	One-step vapor&solid reaction growth of Sn@C core&shell nanowires as an anode material for Li-ion batteries. <b>2012</b> , 22, 21533	47
1806	Carbonophosphates: A New Family of Cathode Materials for Li-Ion Batteries Identified Computationally. <b>2012</b> , 24, 2009-2016	114
1805	Hierarchically porous LiFePO <sub>4</sub> /nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. <b>2012</b> , 22, 7537	126
1804	Design and Translation of Nanolayer Assembly Processes: Electrochemical Energy to Programmable Pharmacies. <b>2012</b> , 393-435	4
1803	Enhanced anode performances of polyaniline-TiO <sub>2</sub> -reduced graphene oxide nanocomposites for lithium ion batteries. <b>2012</b> , 51, 9544-51	77

1802	Facile, mild and fast thermal-decomposition reduction of graphene oxide in air and its application in high-performance lithium batteries. <b>2012</b> , 48, 976-8	216
1801	Synthesis of LiMnPO <sub>4</sub> /C composite material for lithium ion batteries by sol-gel method. <b>2012</b> , 22, 2535-2540	14
1800	Microwave-irradiation synthesis of Li <sub>1.3</sub> Ni <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> O <sub>2.4</sub> cathode materials for lithium ion batteries. <b>2012</b> , 80, 15-21	23
1799	MoO <sub>3</sub> -graphene nanocomposite as anode material for lithium-ion batteries. <b>2012</b> , 79, 148-153	120
1798	Morphology control and electrochemical properties of LiFePO <sub>4</sub> /C composite cathode for lithium ion batteries. <b>2012</b> , 225, 560-563	28
1797	Characterization of lithium borophosphate glass thin film electrolytes deposited by RF-magnetron sputtering for micro-batteries. <b>2012</b> , 225, 636-640	13
1796	Fabrication of porous platelike LiFePO <sub>4</sub> /C cathode materials via hydrothermal process. <b>2012</b> , 230, 219-224	13
1795	Electrical conductivity of new zinc phosphate glass/metal composites. <b>2012</b> , 358, 2764-2770	12
1794	Challenges in synthesizing carbon-coated LiFePO <sub>4</sub> nanoparticles from hydrous FePO <sub>4</sub> and their electrochemical properties. <b>2012</b> , 47, 3495-3498	5
1793	Nanostructured electrodes for high-power lithium ion batteries. <b>2012</b> , 1, 518-533	279
1792	Polymer electrolytes for lithium/sulfur batteries. <b>2012</b> , 2, 553-64	77
1791	Self-assembly of ultrathin porous NiO nanosheets/graphene hierarchical structure for high-capacity and high-rate lithium storage. <b>2012</b> , 22, 2844	236
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1789	Binder strategy towards improving the rate performance of nanosheet-assembled SnO <sub>2</sub> hollow microspheres. <b>2012</b> , 2, 11737	25
1788	Conflicting roles of nickel in controlling cathode performance in lithium ion batteries. <b>2012</b> , 12, 5186-91	199
1787	Electrochemical Properties of LiMnPO <sub>4</sub> Cathode Material Prepared by Ball-Milling. <b>2012</b> , 487, 735-738	
1786	Research on Electrochemical Properties of LiMnPO <sub>4</sub> Synthesized by High Temperature Solid-Phase Method. <b>2012</b> , 487, 714-718	1
1785	Synthesis and characterization of multi-wall carbon nanotubes supported-hydrated iron phosphate cathode material for lithium-ion cells by a novel homogeneous precipitation method. <b>2012</b> , 18, 721-729	5

1784	Hydrothermal synthesis and properties of manganese-doped LiFePO <sub>4</sub> . <b>2012</b> , 18, 873-879	19
1783	Don't burn your mobile!. <b>2012</b> ,	11
1782	High-energy 'composite' layered manganese-rich cathode materials via controlling Li <sub>2</sub> MnO <sub>3</sub> phase activation for lithium-ion batteries. <b>2012</b> , 14, 6584-95	232
1781	A lithium-ion anode with micro-scale mixed hierarchical carbon coated single crystal TiO <sub>2</sub> nanorod spheres and carbon spheres. <b>2012</b> , 22, 24552	30
1780	Ultrathin nanosheets of Li <sub>2</sub> MSiO <sub>4</sub> (M = Fe, Mn) as high-capacity Li-ion battery electrode. <b>2012</b> , 12, 1146-51	303
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1611	A carbon-coated Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode material with an enhanced high-rate capability and long lifespan for lithium-ion batteries. <b>2013</b> , 1, 2508	90
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1608	Micro-sized Si-C Composite with Interconnected Nanoscale Building Blocks as High-Performance Anodes for Practical Application in Lithium-Ion Batteries. <b>2013</b> , 3, 295-300	355
1607	Engineering of Graphene Layer Orientation to Attain High Rate Capability and Anisotropic Properties in Li-Ion Battery Electrodes. <b>2013</b> , 23, 2397-2404	47
1606	Sulphur-TiO <sub>2</sub> yolk-shell nanoarchitecture with internal void space for long-cycle lithium-sulphur batteries. <b>2013</b> , 4, 1331	1698
1605	Directing silicon-graphene self-assembly as a core/shell anode for high-performance lithium-ion batteries. <b>2013</b> , 29, 744-9	130

1604	Acetylene black-embedded LiMn <sub>0.8</sub> Fe <sub>0.2</sub> PO <sub>4</sub> /C composite as cathode for lithium ion battery. <b>2013</b> , 232, 12-16	44
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1601	Carbonate anion controlled growth of LiCoPO <sub>4</sub> /C nanorods and its improved electrochemical behavior. <b>2013</b> , 101, 18-26	19
1600	TiO <sub>2</sub> nanotube arrays grafted with Fe <sub>2</sub> O <sub>3</sub> hollow nanorods as integrated electrodes for lithium-ion batteries. <b>2013</b> , 1, 122-127	123
1599	Synthesis of Co <sub>3</sub> O <sub>4</sub> nano-octahedra enclosed by {111} facets and their excellent lithium storage properties as anode material of lithium ion batteries. <b>2013</b> , 2, 394-402	120
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1597	Triclinic Na <sub>2</sub> Fe <sub>1+x</sub> /2P <sub>2</sub> O <sub>7</sub> /C glass-ceramics with high current density performance for sodium ion battery. <b>2013</b> , 227, 31-34	43
1596	{001} facets dominated anatase TiO <sub>2</sub> : Morphology, formation/etching mechanisms and performance. <b>2013</b> , 56, 402-417	18
1595	Novel vanadium-doped olivine-like nanomaterials with high electronic conductivity. <b>2013</b> , 251, 40-46	24
1594	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Reduced Graphene Oxide composite as a high rate capability material for lithium ion batteries. <b>2013</b> , 236, 30-36	31
1593	Facile approach to prepare hollow core-shell NiO microspheres for supercapacitor electrodes. <b>2013</b> , 203, 60-67	40
1592	Enhanced electrochemical performance of LiFePO <sub>4</sub> coated with Li <sub>0.34</sub> La <sub>0.51</sub> TiO <sub>2.94</sub> by rheological phase reaction method. <b>2013</b> , 178, 1503-1508	15
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1589	The role of impurities on electrochemical properties of LiFePO <sub>4</sub> cathode material. <b>2013</b> , 39, S647-S651	5
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1572	Nanoscale coating of LiMO <sub>2</sub> (M = Ni, Co, Mn) nanobelts with Li <sup>+</sup> -conductive Li <sub>2</sub> TiO <sub>3</sub> : toward better rate capabilities for Li-ion batteries. <b>2013</b> , 135, 1649-52	201
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1570	Long cycling life of Li <sub>2</sub> MnSiO <sub>4</sub> lithium battery cathodes under the double protection from carbon coating and graphene network. <b>2013</b> , 1, 3856	43
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1568	Direct synthesis of novel homogeneous nanocomposites of $\text{Li}_2\text{MnSiO}_4$ and carbon as a potential Li-ion battery cathode material. <b>2013</b> , 49, 2939-41	31
1567	Pseudo-capacitive profile vs. Li-intercalation in Nano- $\text{LiFePO}_4$ . <b>2013</b> , 236, 230-237	18
1566	Electrostatic assembly of mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /graphene hybrid as high-rate anode materials. <b>2013</b> , 69, 171-174	24
1565	Binding $\text{SnO}_2$ nanocrystals in nitrogen-doped graphene sheets as anode materials for lithium-ion batteries. <b>2013</b> , 25, 2152-7	951
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1562	Bottom-up approach toward single-crystalline $\text{VO}_2$ -graphene ribbons as cathodes for ultrafast lithium storage. <b>2013</b> , 13, 1596-601	235
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1559	Energy scheduling and allocation in electric vehicle energy distribution networks. <b>2013</b> ,	
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1435	Surface modification of LiV <sub>3</sub> O <sub>8</sub> nanosheets via layer-by-layer self-assembly for high-performance rechargeable lithium batteries. <b>2014</b> , 257, 319-324	19
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1417	Enhanced performance of lithium sulfur battery with polypyrrole warped mesoporous carbon/sulfur composite. <b>2014</b> , 254, 353-359	132
1416	New Si <sub>3</sub> N <sub>4</sub> /C composite film anode materials for LIB by electrodeposition. <b>2014</b> , 2, 883-896	27
1415	Top-down fabrication of three-dimensional porous V <sub>2</sub> O <sub>5</sub> hierarchical microplates with tunable porosity for improved lithium battery performance. <b>2014</b> , 2, 3297-3302	72
1414	Sandwich-like carbon-anchored ultrathin TiO <sub>2</sub> nanosheets realizing ultrafast lithium storage. <b>2014</b> , 1, 58-64	37
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1320	Fabrication of Gold Nanoparticles Modified Carbon Nanofibers/Polyaniline Electrode for H <sub>2</sub> O <sub>2</sub> Determination. <b>2014</b> , 161, H816-H821	7
1319	Ionic and Electronic Mobility in Multicomponent Olivine Silicate Cathode Materials for Li-ion Batteries. <b>2014</b> , 161, A1461-A1467	3
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1317	Heterolayered, one-dimensional nanobuilding block mat batteries. <b>2014</b> , 14, 5677-86	99

1316	Carbon Coated Submicron sized-LiFePO <sub>4</sub> : Improved High Rate Performance Lithium Battery Cathode. <b>2014</b> , 54, 718-724	12
1315	Rational design of MnO/carbon nanopeapods with internal void space for high-rate and long-life li-ion batteries. <b>2014</b> , 8, 6038-46	388
1314	Optimized electrochemical performance of three-dimensional porous LiFePO <sub>4</sub> /C microspheres via microwave irradiation assisted synthesis. <b>2014</b> , 271, 223-230	42
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1312	Pyrrolidinium-based ionic liquid electrolyte with organic additive and LiTFSI for high-safety lithium-ion batteries. <b>2014</b> , 148, 39-45	53
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1298	Insights on the fundamental capacitive behavior: a case study of MnO <sub>2</sub> . <b>2014</b> , 10, 3568-78	41
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1295	Hierarchical structure LiFePO <sub>4</sub> @C synthesized by oleylamine-mediated method for low temperature applications. <b>2014</b> , 2, 4870-4873	25
1294	Determination and Correlation of Solubilities of Lithium Bis(oxalate)borate in Six Different Solvents from (293.15 to 363.15) K. <b>2014</b> , 59, 1614-1618	4
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1287	Stable lithium electrodeposition in liquid and nanoporous solid electrolytes. <b>2014</b> , 13, 961-9	1096
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816	Synthesis of core-shell NiSe/C nanospheres as anodes for lithium and sodium storage. <b>2016</b> , 208, 238-243	78
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811	. <b>2016</b> , 65, 4714-4725	57
810	Fabrication of graphene-encapsulated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as high-performance cathode materials for sodium-ion batteries. <b>2016</b> , 6, 43591-43597	33
809	In situ quantization of ferroferric oxide embedded in 3D microcarbon for ultrahigh performance sodium-ion batteries. <b>2016</b> , 4, 8822-8829	39
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657	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. <b>2019</b> , 15, e1805389		151
656	Advanced electrochemical performance of ZnMn <sub>2</sub> O <sub>4</sub> /N-doped graphene hybrid as cathode material for zinc ion battery. <b>2019</b> , 425, 162-169		97
655	A hollow (Fe <sub>3</sub> O <sub>4</sub> )-based nanocomposite anode for lithium-ion batteries with outstanding cycling performance. <b>2019</b> , 42, 1		0
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649	Single gyroid-structured metallic nanoporous spheres fabricated from double gyroid-forming block copolymers via templated electroless plating. <b>2019</b> , 11,	16
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