

CITATION REPORT

List of articles citing

Nano-sized transition-metal oxides as
negative-electrode materials for lithium-ion batteries

DOI: 10.1038/35035045
Nature, 2000, 407, 496-9.

Source: <https://exaly.com/paper-pdf/31439202/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2318	Enhanced Capacity of NiO Nanocubes with High Dispersion and Exposed Facets Reinforced by Thermal Plasma.		
2317	Calculation of the P- and T-odd spin-rotational Hamiltonian of the PbF molecule. 1987 , 20, 4939-4948		74
2316	From the vanadates to 3d-metal oxides negative electrodes. 2000 , 6, 321-330		70
2315	X-ray study of metal oxide based anodes for Li-ion batteries. 2000 , 6, 428-433		2
2314	Room Temperature Ferromagnetism in Novel Diluted Magnetic Semiconductor Cd _{1-x} MnxGeP ₂ . 2000 , 39, L949-L951		319
2313	25 Conducting solids, covering ionic and electronic conductors. 2001 , 97, 475-500		2
2312	Particle Size Effects on the Electrochemical Performance of Copper Oxides toward Lithium. 2001 , 148, A285		626
2311	Electronegativity and chemical hardness: two helpful concepts for understanding oxide nanochemistry. 2001 , 51, 402-413		10
2310	Nanocomposite Li-Ion Battery Anodes Produced by the Partial Reduction of Mixed Oxides. 2001 , 13, 2397-2402		26
2309	DNA Nicks and Nodes and Nanotechnology. 2001 , 1, 22-26		139
2308	Synthesis of MnMoO ₄ as High Capacity Anode Material for Li Secondary Battery. 2001 , 30, 760-761		25
2307	Lithium storage in single wall carbon nanotubes. 2001 ,		3
2306	ChemInform Abstract: Nano-Sized Transition-Metal Oxides as Negative-Electrode Materials for Lithium-Ion Batteries.. 2001 , 32, no-no		29
2305	Issues and challenges facing rechargeable lithium batteries. <i>Nature</i> , 2001 , 414, 359-67	50.4	15070
2304	A Transmission Electron Microscopy Study of the Reactivity Mechanism of Tailor-Made CuO Particles toward Lithium. 2001 , 148, A1266		455
2303	Studies on Capacity Loss and Capacity Fading of Nanosized SnSb Alloy Anode for Li-Ion Batteries. 2001 , 148, A915		181
2302	A Nanocrystalline NiO Thin-Film Electrode Prepared by Pulsed Laser Ablation for Li-Ion Batteries. 2002 , 149, A873		92

2301	Mechanism of Single-Charge Detection using Electron Hole System in Si-wire Transistors. 2002 , 41, 1209-1213	10
2300	Electrochemically Active Lithia/Metal and Lithium Sulfide/Metal Composites. 2002 , 5, A70	81
2299	Experimental Evidence for Electrolyte Involvement in the Reversible Reactivity of CoO toward Compounds at Low Potential. 2002 , 5, A18	79
2298	The Electrochemical Quartz Crystal Microbalance as a Means for Studying the Reactivity of Cu[sub 2]O toward Lithium. 2002 , 149, A251	49
2297	The Electrochemistry of Zn[sub 3]N[sub 2] and LiZnN. 2002 , 149, A262	145
2296	Next Generation Positive Electrode Materials Enabled by Nanocomposites: -Metal Fluorides-. 2002 , 756, 1	4
2295	Nanoparticle Separation in Salted Droplet Microreactors. 2002 , 14, 2623-2627	33
2294	Local Structural Characterization for Electrochemical Insertion/Extraction of Lithium into CoO with X-ray Absorption Spectroscopy. 2002 , 106, 9252-9260	67
2293	The Role of Surface Films on Electrodes in Li-Ion Batteries. 2002 , 7-77	19
2292	Paranemic cohesion of topologically-closed DNA molecules. 2002 , 124, 12940-1	84
2291	Electrochemical Reactions of Iron Borates with Lithium: Electrochemical and in Situ Mössbauer and X-ray Absorption Studies. 2002 , 14, 1166-1173	36
2290	Manganese Vanadates and Molybdates as Anode Materials for Lithium-Ion Batteries. 2002 , 103-133	1
2289	Facile Synthesis of Nanocrystalline Li[sub 4]Ti[sub 5]O[sub 12] (Spinel) Exhibiting Fast Li Insertion. 2002 , 5, A39	204
2288	Tungsten Oxide Nanowires on Tungsten Substrates. 2002 , 2, 849-851	260
2287	A reversible solid-state crystalline transformation in a metal phosphide induced by redox chemistry. 2002 , 296, 2012-5	264
2286	A Reversible Lithium Intercalation Process in an ReO[sub 3]-Type Structure PNb[sub 9]O[sub 25]. 2002 , 149, A391	41
2285	Ball-milling: an alternative way for the preparation of anodes for lithium-ion batteries. 2002 , 756, 1	1
2284	The Electrochemical Reduction of Co[sub 3]O[sub 4] in a Lithium Cell. 2002 , 149, A234	332

2283	Nano-FeS[sub 2] for Commercial Li/FeS[sub 2] Primary Batteries. 2002 , 149, A1499	74
2282	Nanosize cobalt oxides as anode materials for lithium-ion batteries. 2002 , 340, L5-L10	90
2281	Rationalization of the Low-Potential Reactivity of 3d-Metal-Based Inorganic Compounds toward Li. 2002 , 149, A1212	401
2280	Metal Oxides as Negative Electrode Materials in Li-Ion Cells. 2002 , 5, A115	115
2279	On the Origin of the Extra Electrochemical Capacity Displayed by MO/Li Cells at Low Potential. 2002 , 149, A627	1076
2278	Synthesis and Characterization of Cu2O Nanowires by a Novel Reduction Route. 2002 , 14, 67-69	434
2277	Advances in battery technology: rechargeable magnesium batteries and novel negative-electrode materials for lithium ion batteries. 2002 , 3, 155-9	173
2276	New Ni _x Mg _{6-x} MnO ₈ Mixed Oxides as Active Materials for the Negative Electrode of Lithium-Ion Cells. 2002 , 166, 330-335	19
2275	Electrochemical Characteristics of Lithium Transition-Metal Oxide as an Anode Material in a Lithium Secondary Battery. 2002 , 19, 749-755	13
2274	Electrochemical properties of metal oxides as anode materials for lithium ion batteries. 2002 , 8, 177-182	5
2273	Comparison of the electrochemical behaviour of SnO ₂ and PbO ₂ negative electrodes for lithium ion batteries. 2002 , 8, 27-35	14
2272	Reversible lithium uptake by CoP ₃ at low potential: role of the anion. 2002 , 4, 516-520	203
2271	Investigation of cobalt oxides as anode materials for Li-ion batteries. 2002 , 109, 142-147	173
2270	Combined X-ray study of lithium (tin) cobalt oxide matrix negative electrodes for Li-ion batteries. 2002 , 47, 2885-2892	46
2269	Influence of manganese(II), cobalt(II), and nickel(II) additives in electrolyte on performance of graphite anode for lithium-ion batteries. 2002 , 47, 1229-1239	232
2268	In situ X-ray diffraction techniques as a powerful tool to study battery electrode materials. 2002 , 47, 3137-3149	208
2267	Charge and colour diffusivity from PITT in electrochromic Li _x WO ₃ sputtered films. 2002 , 537, 125-134	13
2266	NiCo ₂ O ₄ Spinel: First Report on a Transition Metal Oxide for the Negative Electrode of Sodium-Ion Batteries. 2002 , 14, 2847-2848	434

2265	Effect of Particle Size on Lithium Intercalation into Fe_2O_3 . 2003 , 150, A133	571
2264	Ball milling synthesis of Li_xTiP_4 : Improvement of the electrochemical performances. 2003 , 9, 71-76	14
2263	Nanoparticle-based detection technology for DNA analysis. 2003 , 8, 221-226	11
2262	Electrochemical properties of tungsten oxysulphide thin films as positive electrodes for lithium microbatteries. 2003 , 26, 673-681	5
2261	An update on the reactivity of nanoparticles Co-based compounds towards Li. 2003 , 5, 895-904	506
2260	Sonochemical preparation of Au, Ag, Pd/SiO ₂ mesoporous nanocomposites. 2003 , 48, 1061-1066	56
2259	Control of size and morphology in NiO particles prepared by a low-pressure spray pyrolysis. 2003 , 38, 1819-1827	95
2258	Synthesis and electrochemical performance of nanosized Co_3O_4 . 2003 , 79, 1-4	128
2257	Shape-controlled synthesis of submicro-sized cuprous oxide octahedra. 2003 , 6, 1390-1392	63
2256	Nanocrystalline NiO thin film anode with MgO coating for Li-ion batteries. 2003 , 48, 4253-4259	52
2255	Large-scale synthesis of CuO shuttle-like crystals via a convenient hydrothermal decomposition route. 2003 , 254, 225-228	110
2254	Spherical hollow assembly composed of Cu_2O nanoparticles. 2003 , 256, 134-138	103
2253	Alternative anode materials for lithium-ion batteries: a study of Ag_3Sb . 2003 , 119-121, 64-68	68
2252	A new lithium-copper-iron-oxide as a negative electrode material for lithium-ion batteries. 2003 , 119-121, 69-75	7
2251	Iron-iron oxides with CaFe_2O_4 structure as anodes for Li-ion batteries. 2003 , 124, 204-212	56
2250	Changes in oxidation state and magnetic order of iron atoms during the electrochemical reaction of lithium with NiFe_2O_4 . 2003 , 5, 16-21	105
2249	Inorganic materials for the negative electrode of lithium-ion batteries: state-of-the-art and future prospects. 2003 , 40, 103-136	229
2248	A reversible copper extrusion-insertion electrode for rechargeable Li batteries. 2003 , 2, 755-61	212

2247	V2O5 nanofibre sheet actuators. 2003 , 2, 316-9	230
2246	A nanocrystalline Co3O4 thin film electrode for Li-ion batteries. 2003 , 441, 19-24	45
2245	Lithiation mechanism of new electrode material for lithium ion cells the Fe2O3SnO2 binary system. 2003 , 158, 253-260	27
2244	Nanocrystalline tin oxides and nickel oxide film anodes for Li-ion batteries. 2003 , 114, 113-120	101
2243	Preparation of MoO3 nanostructures and their optical properties. 2003 , 15, L547-L552	54
2242	From Complex Chains to 1D Metal Oxides: A Novel Strategy to Cu2O Nanowires. 2003 , 107, 3697-3702	111
2241	Diffusion and ionic conduction in nanocrystalline ceramics. 2003 , 15, R1257-R1289	217
2240	Investigation of Lithium Storage in Bamboo-like CNTs by HRTEM. 2003 , 150, A1281	23
2239	Atomic Force Microscopy Study of Helical Poly(phenylacetylene)s on a Mica Substrate. 2003 , 36, 9670-9674	28
2238	Structural Characterization of Layered LixNi0.5Mn0.5O2 (0 < x < 1). 2003 , 15, 2313-2322	115
2237	Recovery of Nanoparticles from (EO)8(PO)50(EO)8/p-Xylene/H2O Microemulsions by Tuning the Temperature. 2003 , 19, 8611-8614	59
2236	Parallel molecular computations of pairwise exclusive-or (XOR) using DNA "string tile" self-assembly. 2003 , 125, 14246-7	50
2235	Local Atomic Arrangement and Electronic Structure of Nanocrystalline Transition Metal Oxides Determined by X-ray Absorption Spectroscopy. 2003 , 107, 5791-5796	49
2234	Deoxyribozyme-based half-adder. 2003 , 125, 6673-6	222
2233	DNA-based photonic logic gates: AND, NAND, and INHIBIT. 2003 , 125, 346-7	239
2232	A Study of the Mechanism of the Electrochemical Reaction of Lithium with CoO by Two-Dimensional Soft X-ray Absorption Spectroscopy (2D XAS), 2D Raman, and 2D Heterospectral XAS Raman Correlation Analysis. 2003 , 107, 5806-5811	114
2231	Mechanical grinding of Si3N4 to be used as an electrode in lithium batteries. 2003 , 57, 3063-3069	28
2230	A novel tin-based nanocomposite oxide as negative-electrode materials for Li-ion batteries. 2003 , 57, 3341-3345	58

2229	The Electrochemical Reaction of Zinc Oxide Thin Films with Lithium. 2003 , 150, A714	108
2228	Nanocrystallinity effects in lithium battery materials. 2003 , 5, 5215	629
2227	Ultrasonication-Induced Formation of Silver Nanofibers in Reverse Micelles and Small-Angle X-ray Scattering Studies. 2003 , 107, 3679-3683	57
2226	Synthesis of well-ordered CuO nanofibers by a self-catalytic growth mechanism. 2003 , 82, 3316-3318	160
2225	Next Generation Positive Electrode Materials Enabled by Nanocomposites: Metal Fluorides. 2003 ,	2
2224	Study of the Reactivity Mechanism of M ₃ B ₂ O ₆ (with M = Co, Ni, and Cu) toward Lithium. 2003 , 15, 3683-3691	31
2223	The first lithium manganese oxynitride, Li _{7.9} Mn ₅ N ₂ O ₇ : preparation and use as electrode material in lithium batteries. 2003 , 13, 2402-2404	34
2222	Influence of the morphology on the Li insertion properties of Li _{1.1} V ₃ O ₈ . 2003 , 13, 921	62
2221	Carbon Metal Fluoride Nanocomposites. 2003 , 150, A1318	361
2220	The Structure and Electrochemical Performance of Na ⁺ -, K ⁺ -, and Ca ²⁺ -Vanadium Oxide Nanotubes. 2003 , 150, E280	38
2219	On the Electrochemical Reactivity Mechanism of CoSb ₃ vs. Lithium. 2003 , 150, A732	55
2218	A Nanocrystalline Ferric Oxide Cathode for Rechargeable Lithium Batteries. 2003 , 6, A190	25
2217	Synthesis of CuO and Cu ₂ O crystalline nanowires using Cu(OH) ₂ nanowire templates. 2003 , 18, 2756-2759	120
2216	The electronic structure and lithiation of electrodes based on vanadium oxide nanotubes. 2003 , 94, 5083	16
2215	Combined XRD, EXAFS, and Mossbauer Studies of the Reduction by Lithium of Fe ₂ O ₃ with Various Particle Sizes. 2003 , 150, A1643	311
2214	Carbon-Metal Fluoride Nanocomposites. 2003 , 150, A1209	335
2213	Reversible Lithium Uptake by FeP ₂ . 2003 , 6, A162	110
2212	Ballmilling Elaboration of Li-Based Negative Electrode Materials. 2003 , 6, A59	28

2211	Low-temperature synthesis of large-scale arrays of aligned tungsten oxide nanorods. 2003 , 15, L453-L461	60
2210	Electrochemistry of Cu ₃ N with Lithium. 2003 , 150, A1273	148
2209	The Electrochemistry of Germanium Nitride with Lithium. 2003 , 150, A1118	70
2208	Characterization of Amorphous Ta ₂ O ₅ Film as a Novel Anode Material. 2003 , 150, A776	33
2207	New Iron-Containing Electrode Materials for Lithium Secondary Batteries. 2003 , 25, 412-417	7
2206	?????????????????????. 2003 , 54, 915-920	
2205	Nanoparticle iron-phosphate anode material for Li-ion battery. 2004 , 85, 5875-5877	72
2204	Role of Iodine Species in Structural Stability of Nanocrystalline Manganese Oxyiodides. 2004 , 7, A49	5
2203	Facile Reversible Displacement Reaction of Cu ₃ P with Lithium at Low Potential. 2004 , 7, A187	62
2202	Optical and dielectric properties of a nanostructured NbO ₂ thin film prepared by thermal oxidation. 2004 , 37, 3392-3395	71
2201	Nano Co ₃ O ₄ Particles Embedded in Porous Hard Carbon Spherules as Anode Material for Li-Ion Batteries. 2004 , 7, A496	57
2200	Synthesis and electrochemical performance of nanosized magnesium tin composite oxides. 2004 , 83, 16-22	29
2199	Electrochemical Reactivity Mechanism of Ni ₃ N with Lithium. 2004 , 151, E162	92
2198	Iron and cobalt oxide and metallic nanoparticles prepared from ferritin. 2004 , 20, 10283-7	74
2197	Synthesis and characterization of spinel type ZnCo ₂ O ₄ as a novel anode material for lithium ion batteries. 2004 , 39, 1077-1079	70
2196	A preliminary investigation upon the electrochemical behavior of CoO and NiO anodes □ comparative study. 2004 , 10, 421-428	5
2195	Nanodispersed iron, tin and antimony in vapour grown carbon fibres for lithium batteries: an EPR and electrochemical study. 2004 , 42, 2153-2161	20
2194	One-dimensional shape-controlled preparation of porous Cu ₂ O nano-whiskers by using CTAB as a template. 2004 , 177, 4640-4647	101

2193	Nano-Ionics: More Than Just a Fashionable Slogan. 2004 , 13, 593-598	18
2192	Soft chemical synthesis and electrochemical properties of tin oxide-based materials as anodes for lithium ion batteries. 2004 , 11, 142-146	1
2191	A mesoporous/crystalline composite material containing tin phosphate for use as the anode in lithium-ion batteries. 2004 , 43, 5987-90	134
2190	The Relationship Between Nanoscale Structure and Electrochemical Properties of Vanadium Oxide Nanorolls. 2004 , 14, 1197-1204	94
2189	A Mesoporous/Crystalline Composite Material Containing Tin Phosphate for Use as the Anode in Lithium-Ion Batteries. 2004 , 116, 6113-6116	16
2188	Overview of energy/hydrogen storage: state-of-the-art of the technologies and prospects for nanomaterials. 2004 , 108, 2-8	91
2187	Mixed oxides $\text{Ca}_2\text{Fe}_2\text{O}_5$ and $\text{Ca}_2\text{Co}_2\text{O}_5$ as anode materials for Li-ion batteries. 2004 , 49, 1035-1043	66
2186	The electrochemical capacities and cycle retention of electrochemically deposited Cu_2O thin film toward lithium. 2004 , 50, 553-559	36
2185	Enhanced electrochemical properties of SnO_2 anode by AlPO_4 coating. 2004 , 49, 4405-4410	40
2184	Nanostructured CuO thin film electrodes prepared by spray pyrolysis: a simple method for enhancing the electrochemical performance of CuO in lithium cells. 2004 , 49, 4589-4597	164
2183	Room temperature synthesis of Cu_2O nanocubes and nanoboxes. 2004 , 130, 585-589	69
2182	Preparation of large-scale cupric oxide nanowires by thermal evaporation method. 2004 , 260, 130-135	148
2181	Investigation of individual CuO nanorods by polarized micro-Raman scattering. 2004 , 268, 590-595	169
2180	Fabrication and electrochemical properties of Fe_2O_3 nanoparticles. 2004 , 269, 489-492	43
2179	Nanotechnology for the progress of lithium batteries R&D. 2004 , 129, 90-95	42
2178	Nanoscale battery materials based on the self-assembly of block copolymers. 2004 , 132, 256-260	15
2177	Electrochemical properties of Co_3O_4 , NiCo_2O_4 mixture and NiCo_2O_4 composite as anode materials for Li ion secondary batteries. 2004 , 133, 252-259	77
2176	Improvement of the cycleability of nano-crystalline lithium manganate cathodes by cation co-doping. 2004 , 136, 88-98	44

2175	Electrochemical performance of LiMSnO_4 (M=Fe, In) phases with ramsdellite structure as anodes for lithium batteries. 2004 , 177, 3981-3986	13
2174	Electrochemically driven polycrystallization of SnO_2 nanobelts. 2004 , 7, 809-811	6
2173	Air stable copper phosphide (Cu_3P): a possible negative electrode material for lithium batteries. 2004 , 6, 263-267	91
2172	Synthesis and electrochemical characterization of novel high capacity $\text{Si}_3\text{N}_4/\text{Fe}_x\text{N}_4$ anode for rechargeable lithium batteries. 2004 , 6, 965-968	15
2171	Cobalt ferrite thin films as anode material for lithium ion batteries. 2004 , 49, 4915-4921	155
2170	Lithium Insertion/Removal Mechanism of LiCoVO_4 in Lithium-Ion Cells. 2004 , 7, A27	13
2169	Boolean logic functions of a synthetic peptide network. 2004 , 126, 11140-1	193
2168	Lithium insertion mechanism in CoSb_3 analysed by ^{121}Sb Mössbauer spectrometry, X-ray absorption spectroscopy and electronic structure calculations. 2004 , 14, 1759-1767	23
2167	Nanostructured Lead Dioxide Thin Electrode. 2004 , 7, A75	33
2166	Growth and morphological evolution of hexapod-shaped cuprous oxide microcrystals at room temperature. 2004 , 82, 1341-1345	14
2165	Identification of Li-Based Electrolyte Degradation Products Through DEI and ESI High-Resolution Mass Spectrometry. 2004 , 151, A1202	84
2164	Comparative Kinetic Study of Olivine Li_xMPO_4 (M=Fe, Mn). 2004 , 151, A1352	345
2163	Li-Storage via Heterogeneous Reaction in Selected Binary Metal Fluorides and Oxides. 2004 , 151, A1878	521
2162	Rewritable Memory by Controllable Nanopatterning of DNA. 2004 , 4, 905-909	37
2161	Synthesis and Characterization of Sn Nanophases in a Ta_2O_5 Matrix. 2004 , 16, 1991-1995	29
2160	Synthesis of an A/B/C Triblock Copolymer for Battery Materials Applications. 2004 , 37, 1783-1786	10
2159	Nanoindentation of Cu_2O Nanocubes. 2004 , 4, 1903-1907	158
2158	Self-assembly of irregular graphs whose edges are DNA helix axes. 2004 , 126, 6648-57	42

2157	Contribution of X-ray Photoelectron Spectroscopy to the Study of the Electrochemical Reactivity of CoO toward Lithium. 2004 , 16, 1056-1061	282
2156	Nanodispersed iron, tin and antimony in vapour grown carbon fibres for lithium batteries: an EPR and electrochemical study. 2004 , 42, 2153-2153	
2155	DNA logic gates. 2004 , 126, 9458-63	211
2154	Controlled Synthesis of Co ₃ O ₄ Nanoparticles through Oriented Aggregation. 2004 , 16, 737-743	207
2153	Electrochemical Reactions of Lithium with Transition Metal Nitride Electrodes. 2004 , 108, 2236-2244	126
2152	Synthesis of DNA triangles with vertexes of bis(terpyridine)iron(II) complexes. 2004 , 126, 8606-7	86
2151	Carbon-Coated Nanophase CaMoO ₄ as Anode Material for Li Ion Batteries. 2004 , 16, 504-512	121
2150	Surfactant-assisted solvothermal synthesis of Co ₃ O ₄ hollow spheres with oriented-aggregation nanostructures and tunable particle size. 2004 , 20, 8404-8	186
2149	Bottom-up Assembly of RNA Arrays and Superstructures as Potential Parts in Nanotechnology. 2004 , 4, 1717-23	155
2148	Preparation and Electrochemical Performance of Polycrystalline and Single Crystalline CuO Nanorods as Anode Materials for Li Ion Battery. 2004 , 108, 5547-5551	517
2147	Formation and photoluminescence of silver nanoparticles stabilized by a two-armed polymer with a crown ether core. 2004 , 20, 9775-9	88
2146	Investigation of the Structural and Electrochemical Properties of Size-Controlled SnO ₂ Nanoparticles. 2004 , 108, 9815-9820	244
2145	Nanocrystalline ZnFe ₂ O ₄ and Ag-Doped ZnFe ₂ O ₄ Films Used as New Anode Materials for Li-Ion Batteries. 2004 , 151, A1077	119
2144	Improvement of silicon powder negative electrodes by copper electroless deposition for lithium secondary batteries. 2005 , 147, 227-233	146
2143	Non-aqueous synthesis of crystalline Co ₃ O ₄ powders using alcohol and cobalt chloride as a versatile reaction system for controllable morphology. 2005 , 147, 264-268	31
2142	Lithium intercalation into Fe ₂ O ₃ obtained by mechanical milling of FeOOH. 2005 , 146, 315-318	47
2141	Preparation and characterization of CoO used as anodic material of lithium battery. 2005 , 146, 482-486	253
2140	Mössbauer spectroscopy as an efficient tool to study Li insertion mechanisms in negative electrodes for Li ion batteries. 2005 , 146, 492-495	21

2139	A study of novel anode material CoS ₂ for lithium ion battery. 2005 , 146, 264-269	137
2138	The study of K ₂ FeO ₄ (Fe ⁶⁺ -super iron compound) as a cathode material for rechargeable lithium batteries. 2005 , 146, 723-726	14
2137	Solid solution of nickel oxide and manganese oxide as negative active material for lithium secondary cells. 2005 , 146, 510-515	16
2136	Coating MWNTs with Cu ₂ O of different morphology by a polyol process. 2005 , 178, 1488-1494	47
2135	Electrochemical properties of submicron cobalt ferrite spinel through a co-precipitation method. 2005 , 277, 467-470	70
2134	Shape-controlled synthesis of Cu ₂ O nanocrystals assisted by Triton X-100. 2005 , 285, 534-540	51
2133	Low temperature synthesis of a stable MoO ₂ as suitable anode materials for lithium batteries. 2005 , 121, 152-155	52
2132	Polyol-mediated synthesis of Li ₄ Ti ₅ O ₁₂ nanoparticle and its electrochemical properties. 2005 , 7, 1340-1344	51
2131	Preparation and electrochemical performance of composite oxide of alpha manganese dioxide and LiMn ₂ O ₄ spinel. 2005 , 50, 2297-2305	20
2130	A study on the charge/discharge mechanism of Co ₃ O ₄ as an anode for the Li ion secondary battery. 2005 , 50, 3667-3673	238
2129	Voltammetry of the silver alkylcarboxylate nanoparticles in suspension. 2005 , 50, 4868-4872	25
2128	Use of low-temperature nanostructured CuO thin films deposited by spray-pyrolysis in lithium cells. 2005 , 474, 133-140	184
2127	Porous, carbon-decorated LiFePO ₄ prepared by sol-gel method based on citric acid. 2005 , 176, 1801-1805	92
2126	New concepts for the search of better electrode materials for rechargeable lithium batteries. 2005 , 8, 9-15	97
2125	Nanostructured materials for advanced energy conversion and storage devices. 2005 , 4, 366-77	7496
2124	Nanoionics: ion transport and electrochemical storage in confined systems. 2005 , 4, 805-15	1260
2123	Solvothermal Synthesis of Tungsten Oxide Nanorod/Nanowire/Nanosheet. 2005 , 88, 1684-1686	192
2122	Synthesis, structures and electrochemical properties of Li _x Ni _{1-x} O. 2005 , 91, 36-39	27

2121	Synthesis and electrochemical properties of tin oxide-based composite by rheological technique. 2005 , 93, 516-520	2
2120	Preparation, characterization and lithium-intercalation performance of different morphological molybdenum dioxide. 2005 , 93, 395-398	36
2119	Wet chemical synthesis of tin oxide-based material for lithium ion battery anodes. 2005 , 40, 861-868	17
2118	Synthesis of uniformly sized Cu ₂ O crystals with star-like and flower-like morphologies. 2005 , 59, 2423-2425	39
2117	Facile large scale synthesis of WS ₂ nanotubes from WO ₃ nanorods prepared by a hydrothermal route. 2005 , 7, 67-72	92
2116	Surface Segregation in SnO ₂ /Fe ₂ O ₃ Nanopowders and Effects in Mössbauer Spectroscopy. 2005 , 2005, 2134-2138	48
2115	Nickel-foam-supported reticular CoO-Li ₂ O composite anode materials for lithium ion batteries. 2005 , 44, 7085-9	293
2114	Nickel-Foam-Supported Reticular CoO/Li ₂ O Composite Anode Materials for Lithium Ion Batteries. 2005 , 117, 7247-7251	21
2113	Synthesis and Rate Performance of Monolithic Macroporous Carbon Electrodes for Lithium-Ion Secondary Batteries. 2005 , 15, 547-556	423
2112	Titanate Nanotubes and Nanorods Prepared from Rutile Powder. 2005 , 15, 1310-1318	282
2111	Co ₃ O ₄ Nanomaterials in Lithium-Ion Batteries and Gas Sensors. 2005 , 15, 851-857	1056
2110	Bonding Polyether onto ZnO Nanoparticles: An Effective Method for Preparing Polymer Nanocomposites with Tunable Luminescence and Stable Conductivity. 2005 , 15, 1751-1756	121
2109	Nanostructured Electrodes and the Low-Temperature Performance of Li-Ion Batteries. 2005 , 17, 125-128	236
2108	Weakly Ferromagnetic Ordered Mesoporous Co ₃ O ₄ Synthesized by Nanocasting from Vinyl-Functionalized Cubic Ia3d Mesoporous Silica. 2005 , 17, 53-56	282
2107	Vanadium Pentoxide Nanobelts: Highly Selective and Stable Ethanol Sensor Materials. 2005 , 17, 764-767	486
2106	Fe ₂ O ₃ Nanotubes in Gas Sensor and Lithium-Ion Battery Applications. 2005 , 17, 582-586	1464
2105	Electrochemical deposition and characterization of Cu ₂ O nanowires. 2005 , 81, 685-689	44
2104	All solid state Li-ion secondary battery with FeS anode. 2005 , 176, 2383-2387	68

2103	Effect of oxidative stabilization on the electrochemical performance of carbon mesophases as electrode materials for lithium batteries. 2005 , 9, 627-633	5
2102	Electrochemical Reactions Between Perovskite-Type LaCoO ₃ and Lithium. 2005 , 15, 109-117	10
2101	Rheological phase synthesis and electrochemical performances of LiVMoO ₆ as a high-capacity anode material for lithium ion batteries. 2005 , 40, 5553-5555	16
2100	Fluorine-doped tin oxide electrods for lithium batteries. 2005 , 103-123	
2099	Cu nanoparticles derived from CuO electrodes in lithium cells. 2005 , 16, 2338-41	61
2098	Synthesis and Characteristic of Cuprous Oxide Nano-Whiskers with Photocatalytic Activity under Visible Light. 2005 , 475-479, 3531-3534	5
2097	Mesoporous FePO ₄ with Enhanced Electrochemical Performance as Cathode Materials of Rechargeable Lithium Batteries. 2005 , 8, A396	41
2096	Electrochemical Study of Li ₃ Fe(MoO ₄) ₃ as Positive Electrode in Lithium Cells. 2005 , 152, A1306	37
2095	Electrochemical Performance of Anatase Nanotubes Converted from Protonated Titanate Hydrate Nanotubes. 2005 , 8, A26	95
2094	Synthesis and Characterization of Nanometric Iron and Iron-Titanium Oxides by Mechanical Milling. 2005 , 152, A1748	133
2093	The Electrochemical Performance of Bias-Sputter-Deposited Nanocrystalline Nickel Oxide Thin Films Toward Lithium. 2005 , 152, A1188	21
2092	MICROWAVE HYDROTHERMAL SYNTHESIS AND CHARACTERIZATION OF Co ₃ O ₄ NANOCRYSTALS. 2005 , 19, 2841-2846	4
2091	Electrochemical Reaction of Lithium with Cobalt Fluoride Thin Film Electrode. 2005 , 152, E50	67
2090	Solid State Electrochemistry I: Thermodynamics and Kinetics of Charge Carriers in Solids. 2005 , 1-173	15
2089	Synthesis of Submicron-Sized, Monodisperse Spherical V ₂ O ₅ Particles. 2005 , 879, 1	2
2088	Excellent Low-Temperature Lithium Intercalation Performance of Nanostructured Hydrogen Titanate Electrodes. 2005 , 8, A570	12
2087	Reversible electrical modification on conductive polymer for proximity probe data storage. 2005 , 16, 2516-2520	14
2086	Further Understanding of Reaction Processes in Electrolytic Manganese Dioxide Electrodes for Lithium Cells. 2005 , 152, E230	11

2085	A Novel Anode Material LiVMoO_6 for Rechargeable Lithium-Ion Batteries. 2005 , 8, A650	14
2084	Novel Electrochemical Milling Method To Fabricate Copper Nanoparticles and Nanofibers. 2005 , 17, 5242-524562	
2083	Two computational primitives for algorithmic self-assembly: copying and counting. 2005 , 5, 2586-92	154
2082	Cr_2O_3 -Based Anode Materials for Li-Ion Batteries. 2005 , 8, A66	75
2081	Electrodeposition of Cu_2O : An Excellent Method for Obtaining Films of Controlled Morphology and Good Performance in Li-Ion Batteries. 2005 , 8, A159	96
2080	Use of Sn-Si nanocomposite electrodes for Li rechargeable batteries. 2005 , 43-5	26
2079	Parallel biomolecular computation on surfaces with advanced finite automata. 2005 , 127, 3935-43	47
2078	Electrochemical Reactivity and Design of Ni_2P Negative Electrodes for Secondary Li-Ion Batteries. 2005 , 17, 6327-6337	209
2077	Bismuth Fluoride Nanocomposite as a Positive Electrode Material for Rechargeable Lithium Batteries. 2005 , 8, A179	104
2076	Photoelectron Spectroscopic Study of the Reaction of Li and Na with NiCo_2O_4 . 2005 , 17, 5202-5208	78
2075	Characterization of lithium alkyl carbonates by X-ray photoelectron spectroscopy: experimental and theoretical study. 2005 , 109, 15868-75	248
2074	Combining Electrochemistry and Metallurgy for New Electrode Designs in Li-Ion Batteries. 2005 , 17, 5041-504762	
2073	Evidence of an Electrochemically Assisted Ion Exchange Reaction in $\text{Cu}_{2.33}\text{V}_4\text{O}_{11}$ Electrode Material vs. Li. 2005 , 8, A184	21
2072	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 2. Substitution with Al. 2005 , 17, 1044-1054	32
2071	Chromate nanorods/nanobelts: general synthesis, characterization, and properties. 2005 , 44, 9405-15	61
2070	XPS Identification of the Organic and Inorganic Components of the Electrode/Electrolyte Interface Formed on a Metallic Cathode. 2005 , 152, A689	209
2069	NdFeB alloy as a magnetic electrode material for lithium-ion batteries. 2005 , 391, 212-216	4
2068	Solubility-Controlled Synthesis of High-Quality Co_3O_4 Nanocrystals. 2005 , 17, 4023-4030	228

2067	Direct Low-Temperature Deposition of Crystallized CoOOH Films by Potentiostatic Electrolysis. 2005 , 152, C49	103
2066	Low temperature synthesis of metastable lithium ferrite: magnetic and electrochemical properties. 2005 , 16, 2677-2680	47
2065	Fabrication of morphology and crystal structure controlled nanorod and nanosheet cobalt hydroxide based on the difference of oxygen-solubility between water and methanol, and conversion into Co ₃ O ₄ . 2005 , 15, 1938	127
2064	Synthesis, characterization, and electrochemical application of Ca(OH) ₂ -, Co(OH) ₂ -, and Y(OH) ₃ -Coated Ni(OH) ₂ tubes. 2005 , 109, 14025-32	72
2063	Critical Size of a Nano SnO ₂ Electrode for Li-Secondary Battery. 2005 , 17, 3297-3301	484
2062	Synthesis of manganese oxide electrodes with interconnected nanowire structure as an anode material for rechargeable lithium ion batteries. 2005 , 109, 23279-84	191
2061	Optical and electrochemical properties of nanosized NiO via thermal decomposition of nickel oxalate nanofibres. 2005 , 16, 37-39	155
2060	Layered Hydrogen Titanate Nanowires with Novel Lithium Intercalation Properties. 2005 , 17, 5848-5855	122
2059	Nanoparticles and the environment. 2005 , 55, 708-46	438
2058	Structure and Electrochemistry of Carbon-Metal Fluoride Nanocomposites Fabricated by Solid-State Redox Conversion Reaction. 2005 , 152, A307	80
2057	Effect of a Macropore Structure on Cycling Rates of LiCoO ₂ . 2005 , 152, A1989	59
2056	Copper-based nanowire materials: templated syntheses, characterizations, and applications. 2005 , 21, 4729-37	143
2055	Synthesis of CoOOH nanorods and application as coating materials of nickel hydroxide for high temperature Ni-MH cells. 2005 , 109, 5392-4	84
2054	TEMPO-mediated, room temperature synthesis of pure CoO nanoparticles. 2006 , 1307-9	25
2053	Low-temperature synthesis of alpha-MnO ₂ hollow urchins and their application in rechargeable Li+ batteries. 2006 , 45, 6404-10	308
2052	Preparation and characterization of copper-doped cobalt oxide electrodes. 2006 , 110, 24021-9	128
2051	Varying the exchange interaction between NiO nanoparticles. 2006 , 17, 2835-2839	12
2050	Magnetic interactions of Mn clusters supported on Cu. 2006 , 73,	39

2049	Microwave-Assisted Synthesis and Magnetic Study of Nanosized Ni/NiO Materials. 2006 , 18, 2719-2725	71
2048	Controllable synthesis and enhanced electrochemical properties of multifunctional Au(core)Co(3)O(4shell) nanocubes. 2006 , 110, 24305-10	40
2047	High-Yield Synthesis of NiO Nanoplatelets and Their Excellent Electrochemical Performance. 2006 , 6, 2163-2165	124
2046	Fabrication and Characterization of Cu[sub 2]O Nanorod Arrays and Their Electrochemical Performance in Li-Ion Batteries. 2006 , 9, A207	46
2045	Synthesis of functional oxides by a novel mechanical milling-electric discharge method. 2006 , 16, 4488-4493	2
2044	Shape evolution of Cu2O nanostructures via kinetic and thermodynamic controlled growth. 2006 , 110, 20801-7	204
2043	Spherical Clusters of NiO Nanoshafths for Lithium-Ion Battery Anodes. 2006 , 9, A524	86
2042	Well-aligned arrays of CuO nanoplatelets. 2006 , 110, 1632-7	158
2041	LSDA+U study of cupric oxide: Electronic structure and native point defects. 2006 , 73,	174
2040	Lithium Intercalation into the Titanosilicate Sitinakite. 2006 , 18, 3192-3202	15
2039	Shape evolution and size-controllable synthesis of Cu2O octahedra and their morphology-dependent photocatalytic properties. 2006 , 110, 13829-34	489
2038	Freestanding mesoporous quasi-single-crystalline CO3O4 nanowire arrays. 2006 , 128, 14258-9	315
2037	An approach for synthesizing various types of tungsten oxide nanostructure. 2006 , 17, 5590-5	42
2036	Oxides@C CoreShell Nanostructures: One-Pot Synthesis, Rational Conversion, and Li Storage Property. 2006 , 18, 3486-3494	222
2035	Electrochemical synthesis and characterization of transparent nanocrystalline Cu2O films and their conversion to CuO films. 2006 , 3311-3	65
2034	Evidence for interfacial-storage anomaly in nanocomposites for lithium batteries from first-principles simulations. 2006 , 96, 058302	172
2033	Novel dendritic nanostructures: self-assemblies of nanoparticles of poly(vinyl alcohol) coated Ag and/or Cu2O. 2006 , 17, 1948-1953	12
2032	Mass spectrometry investigations on electrolyte degradation products for the development of nanocomposite electrodes in lithium ion batteries. 2006 , 78, 3688-98	108

2031	Fabrication, assembly, and electrical characterization of CuO nanofibers. 2006 , 89, 133125	111
2030	Lithium Insertion into Vanadium Oxide Nanotubes: Electrochemical and Structural Aspects. 2006 , 18, 495-503	79
2029	Theory of Overlithiation Reaction in LiMO ₂ Battery Electrodes. 2006 , 18, 1296-1302	18
2028	FeP: Another Attractive Anode for the Li-Ion Battery Enlisting a Reversible Two-Step Insertion/Conversion Process. 2006 , 18, 3531-3538	165
2027	Storage of hydrogen and lithium in inorganic nanotubes and nanowires. 2006 , 21, 2744-2757	65
2026	In Situ Optical Observations of Particle Motion in Alloy Negative Electrodes for Li-Ion Batteries. 2006 , 153, A1206	48
2025	Facile Synthesis of Cu ₂ O Polyhedral Micro/Nanocrystals in Aqueous Solution of an Amphiphilic Polyvinylacetone. 2006 , 35, 574-575	5
2024	An Effective Route for Porous Ferrihydrite Preparation from Layered Double Hydroxide Precursors. 2006 , 35, 656-657	14
2023	Facile Synthesis of Narrowly Dispersed Silver Nanoparticles in Hydrogel. 2006 , 35, 40-41	16
2022	Electrochemical Lithium Insertion of Iron Oxide Spinel Thin Films and Nanoparticles: Changes in Structure and Magnetic Properties. 2006 , 2, 1-11	17
2021	Mechanically Lithiated SnO as an Anode Material for Secondary Battery. 2006 , 74, 463-466	1
2020	Substrate-friendly synthesis of metal oxide nanostructures using a hotplate. 2006 , 2, 80-4	84
2019	Nano-objects on a round trip from water to organics in a polymeric ionic liquid vehicle. 2006 , 2, 507-12	124
2018	Nanomaterials for lithium ion batteries. 2006 , 1, 28-33	419
2017	High rate capabilities Fe ₃ O ₄ -based Cu nano-architected electrodes for lithium-ion battery applications. 2006 , 5, 567-73	1803
2016	Electrochemical lithiation synthesis of nanoporous materials with superior catalytic and capacitive activity. 2006 , 5, 713-7	202
2015	Lithium electrochemistry of NiSe ₂ : A new kind of storage energy material. 2006 , 8, 1855-1862	90
2014	In situ fabrication of spherical porous tin oxide via a spray pyrolysis technique. 2006 , 51, 3680-3684	18

2013	Urchin-like nano/micro hybrid anode materials for lithium ion battery. 2006 , 44, 2778-2784	59
2012	Low-temperature fabrication of MnFe ₂ O ₄ octahedrons: Magnetic and electrochemical properties. 2006 , 426, 120-123	56
2011	The role of charge-enhanced C ₆₀ O interactions in gel-like mixtures prepared from ionic liquids and tungsten(VI) oxide nanoparticles. 2006 , 427, 310-316	11
2010	Synthesis of V ₃ O ₇ · nH ₂ O nanobelts as cathode materials for lithium-ion batteries. 2006 , 8, 21-26	69
2009	The high power and high energy densities Li ion storage device by nanocrystalline and mesoporous Ni/NiO covered structure. 2006 , 8, 284-288	59
2008	Electrochemically deposited nanowires of manganese oxide as an anode material for lithium-ion batteries. 2006 , 8, 383-388	89
2007	Electrochemical reaction of lithium with nanostructured thin film of antimony trioxide. 2006 , 8, 1250-1256	69
2006	Electrochemical behaviour of low temperature grown iron fluoride thin films. 2006 , 8, 1769-1774	38
2005	Electrochemical and quantum chemical studies of the reactions of transition metals M (M=Co, Fe and Ni) with LiF and Li ₂ O. 2006 , 51, 2030-2041	4
2004	Electrostatic assembly of Cu ₂ O nanoparticles on DNA templates. 2006 , 252, 2711-2716	37
2003	Pulsed laser deposited iron fluoride thin films for lithium-ion batteries. 2006 , 252, 4587-4592	46
2002	Stoichiometric synthesis of pure NiFe ₂ O ₄ spinel from layered double hydroxide precursors for use as the anode material in lithium-ion batteries. 2006 , 67, 1286-1290	82
2001	Evaluation of copper oxide thin films as electrodes for microbatteries. 2006 , 155, 358-363	41
2000	CuFe ₂ O ₄ /SnO ₂ nanocomposites as anodes for Li-ion batteries. 2006 , 157, 522-527	68
1999	Structural characterization and electrochemical properties of RF-sputtered nanocrystalline Co ₃ O ₄ thin-film anode. 2006 , 158, 1379-1385	54
1998	Effect of ultrasonic treatment and temperature on nanocrystalline TiO ₂ . 2006 , 163, 196-200	19
1997	Shape-controlled synthesis and lithium-storage study of metal-organic frameworks Zn ₄ O(1,3,5-benzenetricarboxylate) ₂ . 2006 , 160, 542-547	237
1996	Evaluation of nano-crystal sized nickel hydroxide as an electrode material for alkaline rechargeable cells. 2006 , 160, 704-710	80

1995	Synthesis of NiO nanotubes for use as negative electrodes in lithium ion batteries. 2006 , 159, 254-257	298
1994	Nanostructured PbO materials obtained in situ by spray solution technique for Li-ion batteries. 2006 , 159, 241-244	42
1993	Nano-structured spherical porous SnO ₂ anodes for lithium-ion batteries. 2006 , 159, 345-348	87
1992	Electrochemical and charge/discharge properties of the synthesized cobalt oxide as anode material in Li-ion batteries. 2006 , 159, 323-327	43
1991	Nano-ionics in the context of lithium batteries. 2006 , 159, 171-178	164
1990	Hydrothermal synthesis of nano-sized anatase TiO ₂ powders for lithium secondary anode materials. 2006 , 161, 1314-1318	48
1989	Metal oxyfluorides TiOF ₂ and NbO ₂ F as anodes for Li-ion batteries. 2006 , 162, 1312-1321	163
1988	The electrochemistry of nanostructured In ₂ O ₃ with lithium. 2006 , 162, 1373-1378	46
1987	Synthesis and characterization of NiO strips from a single source. 2006 , 289, 299-302	57
1986	Synthesis and characterization of mesoporous titanium pyrophosphate as lithium intercalation electrode materials. 2006 , 88, 232-237	40
1985	Virus-enabled synthesis and assembly of nanowires for lithium ion battery electrodes. 2006 , 312, 885-8	1654
1984	Rechargeable Li ₂ O ₂ electrode for lithium batteries. 2006 , 128, 1390-3	977
1983	Preparation of Nanotextured VO ₂ [B] from Vanadium Oxide Aerogels. 2006 , 18, 4369-4374	132
1982	Synthesis of anatase TiO ₂ nanoparticles with beta-cyclodextrin as a supramolecular shell. 2006 , 1, 664-8	20
1981	Effect of lithia and substrate on the electrochemical performance of a lithia/cobalt oxide composite thin-film anode. 2006 , 1, 826-31	8
1980	Synthesis of nanosize particles of cobalt and nickel oxides from solutions. 2006 , 79, 345-350	8
1979	Electrolytic Co ₃ O ₄ for thin-layer anodes of lithium-ion batteries. 2006 , 42, 173-182	1
1978	A low external temperature method for synthesis of active electrode materials for Li batteries □ Part B: Synthesis of lithium iron oxides Li _x Fe _y O _z . 2006 , 36, 1333-1339	7

1977	An investigation on electrochemical behavior of nanosize zinc sulfide electrode in lithium-ion cells. 2006 , 10, 250-254	32
1976	Formation and characterization of Cu ₃ Si nanocomposite electrodes for rechargeable Li batteries. 2006 , 163, 211-214	30
1975	Electrochemical properties of NiO/Ni nanocomposite as anode material for lithium ion batteries. 2006 , 161, 541-544	179
1974	Nanocrystalline TiO ₂ (anatase) for Li-ion batteries. 2006 , 159, 186-192	161
1973	The chemical changes occurring upon cycling of a SnO ₂ negative electrode for lithium ion cell: In situ Mössbauer investigation. 2006 , 179, 476-485	20
1972	Fabrication of bipolar nickel metal hydride batteries with nanometer copper oxide as anodic additive. 2006 , 51, 5349-5355	8
1971	Nano-sized Sn/MWNTs and MWNTs served as the anode of lithium ion battery. 2006 , 21, 60-63	1
1970	A study on carbon coating to silicon and electrochemical characteristics of Si-C/Li cells. 2006 , 23, 230-236	5
1969	Surface modifications of electrode materials for lithium ion batteries. 2006 , 8, 113-128	328
1968	Reactivity of transition metal (Co, Ni, Cu) sulphides versus lithium: The intriguing case of the copper sulphide. 2006 , 8, 640-651	210
1967	Polymer-directed large-scale synthesis of single-crystal vanadium oxide nanobelts. 2006 , 95, 206-210	14
1966	Immobilization of silver on hollow silica nanospheres and nanotubes and their antibacterial effects. 2006 , 96, 90-97	133
1965	Synthesis, characterization and electrochemical studies on LiCoAsO ₄ . 2006 , 41, 601-607	9
1964	Soft chemistry synthesis, structure and electrochemical characterization of iron phosphates Fe(H ₂ PO ₄) ₃ and Fe(PO ₃) ₃ . 2006 , 41, 1170-1177	12
1963	Crystal-to-crystal phase transition in self-assembled mesoporous iron oxide films. 2006 , 45, 781-4	74
1962	On the role of oxygen defects in the catalytic performance of zinc oxide. 2006 , 45, 2965-9	204
1961	Fabrication of Silver Nanoparticles in Hydrogel Networks. 2006 , 27, 1346-1354	139
1960	Crystal-to-Crystal Phase Transition in Self-Assembled Mesoporous Iron Oxide Films. 2006 , 118, 795-798	10

1959	Über den Einfluss von Sauerstoffdefektstellen auf die katalytische Aktivität von Zinkoxid. 2006 , 118, 3031-3035	49
1958	Growth and Electrochemical Characterization versus Lithium of Fe ₃ O ₄ Electrodes Made by Electrodeposition. 2006 , 16, 2281-2287	208
1957	Crystallinity Control of a Nanostructured LiNi _{0.5} Mn _{1.5} O ₄ Spinel via Polymer-Assisted Synthesis: A Method for Improving Its Rate Capability and Performance in 5 V Lithium Batteries. 2006 , 16, 1904-1912	210
1956	Synthesis and characterization of self-catalyzed CuO nanorods on Cu ₂ S@Ni assembly using vacuum-arc Cu deposition and vapor-solid reaction. 2006 , 24, 139	22
1955	The Reinvestigation on Electrochemical Reaction Mechanism of Stannic Oxide Thin Film with Lithium. 2006 , 9, A468	19
1954	LiFeO ₂ Nanocomposite as a New Li Storage Material. 2006 , 9, A147	25
1953	TEM study on hollow and porous Cu ₂ O nanoparticles prepared from solution phase. 2006 , 15, 1290-1295	6
1952	Novel Composite Anodes Consisting of Lithium Transition-Metal Nitrides and Transition Metal Oxides for Rechargeable Li-Ion Batteries. 2006 , 153, A437	21
1951	Effect of substrate temperature on morphology and electrochemical performance of radio frequency magnetron sputtered lithium nickel vanadate films used as negative electrodes for lithium microbatteries. 2006 , 110, 4301-6	36
1950	Multiple Scattering Calculation for Co K-Edge XANES Spectra of Nanometer-Scale Metal Deposited during Li Insertion into LiCoVO ₄ . 2006 , 9, A200	9
1949	Spray Pyrolyzed PbO-Carbon Nanocomposites as Anode for Lithium-Ion Batteries. 2006 , 153, A787	53
1948	Investigation of the Lithiation and Delithiation Conversion Mechanisms of Bismuth Fluoride Nanocomposites. 2006 , 153, A799	70
1947	Fabrication and Electrochemical Characterization of Copper Selenide Thin Films by Pulsed Laser Deposition. 2006 , 153, A2262	55
1946	Reversible Conversion Reactions with Lithium in Bismuth Oxyfluoride Nanocomposites. 2006 , 153, A159	70
1945	Effects of Carbon Coatings on Nanocomposite Electrodes for Lithium-Ion Batteries. 2006 , 9, A529	54
1944	Effect of Catalyst on the Performance of Rechargeable Lithium/Air Batteries.. 2006 , 3, 225-232	18
1943	Fabrication of Nano/Micro Hierarchical Fe ₂ O ₃ @Ni Micrometer-Wire Structure and Characteristics for High Rate Li Rechargeable Battery. 2006 , 153, A1273	49
1942	SnO ₂ Pinning: An Approach to Enhance the Electrochemical Properties of Nanocrystalline CuFe ₂ O ₄ for Lithium-Ion Batteries. 2006 , 9, A390	20

1941	Enabling Aspects of Metal Halide Nanocomposites for Reversible Energy Storage. 2006 , 972, 1	1
1940	Nanosized Amorphous Materials as Anodes for Lithium Batteries. 2006 , 972, 1	1
1939	Reactivity of Antimony Oxides and MSb_2O_6 (M=Cu,Ni,Co), Trirutile-type Phases with Metallic Lithium. 2006 , 153, A1778	54
1938	Electrochemical Performance of Co_3O_4 Composite Anode Materials. 2006 , 9, A315	120
1937	High-Rate Lithium Ion Batteries with Flat Plateau Based on Self-Nanoporous Structure of Tin Electrode. 2007 , 154, A146	27
1936	Solid-State NMR and Electrochemical Dilatometry Study on Li^+ Uptake/Extraction Mechanism in SiO Electrode. 2007 , 154, A1112	162
1935	High dielectric permittivity of Li and Ta codoped NiO ceramics. 2007 , 40, 863-868	45
1934	Characterization of Nanosize Molybdenum Trisulfide for Lithium Batteries and MoS_3 Structure Confirmation via Electrochemistry. 2007 , 10, A204	9
1933	Compatibility of Co_3O_4 with Commercial Electrolyte. 2007 , 10, A118	14
1932	Electrochemical Reactivity of Heterogeneous Nanocomposite $\text{Li}_2\text{Se}@\text{Cu}_3\text{Se}_2$. 2007 , 10, A146	7
1931	Towards the reactivity of MIL-53 or $\text{FeIII}(\text{OH})_0.8\text{F}_0.2[\text{O}2\text{C}-\text{C}_6\text{H}_4-\text{CO}_2]$ versus lithium. 2007 , 2037-2041	6
1930	Mesoporous metal oxides templated by FDU-12 using a new convenient method. 2007 , 1755-1762	2
1929	Synthesis of mesoporous nanocrystalline Co_3O_4 via an easy and inexpensive method. 2007 , 40, 4129-4132	12
1928	Enhanced lithium storage and chemical diffusion in metal-LiF nanocomposites: Experimental and theoretical results. 2007 , 76,	31
1927	An Anode Material of CrN for Lithium-Ion Batteries. 2007 , 10, A189	61
1926	Facile Synthesis of Cu_2O Nanocubes in Triblock Copolymer Solutions. 2007 , 121-123, 275-278	
1925	Solid State Electrochemistry II: Devices and Techniques. 2007 , 1-138	8
1924	Efficacy of new microprocessed phototherapy system with five high intensity light emitting diodes (Super LED). 2007 , 83, 253-8	14

1923	Pt-Embedded MoO ₃ Electrodes for Rechargeable Lithium Batteries. 2007 , 10, A180	9
1922	Factors Influencing the Rate of Fe ₂ O ₃ Conversion Reaction. 2007 , 10, A264	76
1921	The Structural Design of Electrode Materials for High Energy Lithium Batteries. 2007 , 40, 1150-1158	2
1920	Electrochemical Energy Generation and Storage. Fuel Cells and Lithium-Ion Batteries. 2007 , 80, 1843-1855	15
1919	Review on Polymer, Hydrogel and Microgel Metal Nanocomposites: A Facile Nanotechnological Approach. 2007 , 45, 107-119	133
1918	Electrodeposited Sb and Sb/Sb ₂ O ₃ Nanoparticle Coatings as Anode Materials for Li-Ion Batteries. 2007 , 19, 1170-1180	157
1917	Formation and Oxidation of Nanosized Metal Particles by Electrochemical Reaction of Li and Na with NiCo ₂ O ₄ : X-ray Absorption Spectroscopic Study. 2007 , 111, 4636-4642	94
1916	The structural evolution and electrochemical properties of the textured Cu ₂ O thin films. 2007 , 436, 241-246	13
1915	Preparation and electrochemical performances of cubic shape Cu ₂ O as anode material for lithium ion batteries. 2007 , 441, 52-56	92
1914	In situ Fenton reagent generated from TiO ₂ /Cu ₂ O composite film: a new way to utilize TiO ₂ under visible light irradiation. 2007 , 41, 6264-9	209
1913	Porous, self-supported Ni ₃ S ₂ /Ni nanoarchitected electrode operating through efficient lithium-driven conversion reactions. 2007 , 90, 143107	63
1912	Kinetic Studies for the Electrocatalytic Reduction of Bis(2-mercapto-1,3,4-thiadiazoyl)-5,5-disulfide at a Poly(3,4-ethylenedioxythiophene) Film-Modified Electrode via Rotating-Disk Electrode Voltammetry. 2007 , 111, 13129-13136	16
1911	High-Performance Transition Metal Mixed Oxides in Conversion Electrodes: A Combined Spectroscopic and Electrochemical Study. 2007 , 111, 14238-14246	57
1910	Growth of Different Nanostructures of Cu ₂ O (Nanothreads, Nanowires, and Nanocubes) by Simple Electrolysis Based Oxidation of Copper. 2007 , 111, 1638-1645	121
1909	Nanosize effect on high-rate Li-ion intercalation in LiCoO ₂ electrode. 2007 , 129, 7444-52	568
1908	Electrospun Manganese Oxide Nanofibers as Anodes for Lithium-Ion Batteries. 2007 , 10, A48	100
1907	Carbon/MoO ₂ Composite Based on Porous Semi-Graphitized Nanorod Assemblies from In Situ Reaction of Tri-Block Polymers. 2007 , 19, 374-383	96
1906	Adsorption and Self-Assembly of Oligodeoxynucleotides onto a Mica Surface. 2007 , 111, 17032-17037	7

1905	Fabrication of a Fully Infiltrated Three-Dimensional Solid-State Interpenetrating Electrochemical Cell. 2007 , 154, A1135	48
1904	Cuprous Oxide Nanowires Prepared by an Additive-Free Polyol Process. 2007 , 7, 453-458	94
1903	Controlled synthesis of rod-like LiVMoO(6) nanocrystals for application in lithium-ion batteries. 2007 , 18, 135607	8
1902	In Situ Measurements of Li Ion Battery Electrode Material Conductivity: Application to Li _x CoO ₂ and Conversion Reactions. 2007 , 111, 9624-9630	39
1901	Characterization of Amorphous and Crystalline Tin/Cobalt Anodes. 2007 , 10, A274	114
1900	Hierarchical Growth of Cu ₂ O Double Tower-Tip-like Nanostructures in Water/Oil Microemulsion. 2007 , 7, 820-824	78
1899	A molecular keypad lock: a photochemical device capable of authorizing password entries. 2007 , 129, 347-54	332
1898	Reducing facet nucleation during algorithmic self-assembly. 2007 , 7, 2913-9	51
1897	Electrochemical Performances of Ni-Coated ZnO as an Anode Material for Lithium-Ion Batteries. 2007 , 154, A65	143
1896	Mesoporous and nanowire Co ₃ O ₄ as negative electrodes for rechargeable lithium batteries. 2007 , 9, 1837-42	363
1895	Direct Synthesis of Nanosized NiCo ₂ O ₄ Spinel and Related Compounds via Continuous Hydrothermal Synthesis Methods. 2007 , 46, 4830-4838	80
1894	Mesoporous single-crystal Co ₃ O ₄ templated by cage-containing mesoporous silica. 2007 , 2518-20	87
1893	Templateless, surfactantless, electrochemical route to a cuprous oxide microcrystal: from octahedra to monodisperse colloid spheres. 2007 , 46, 9537-9	41
1892	Fast, completely reversible Li insertion in vanadium pentoxide nanoribbons. 2007 , 7, 490-5	359
1891	CeO ₂ Spherical Crystallites: Synthesis, Formation Mechanism, Size Control, and Electrochemical Property Study. 2007 , 111, 1651-1657	157
1890	From Copper Nanocrystalline to CuO Nanoneedle Array: Synthesis, Growth Mechanism, and Properties. 2007 , 111, 5050-5056	153
1889	Synthesis of large-area and aligned copper oxide nanowires from copper thin film on silicon substrate. 2007 , 18, 275607	114
1888	Synthesis, Characterization, and Li-Electrochemical Performance of Highly Porous Co ₃ O ₄ Powders. 2007 , 19, 3032-3040	211

1887	Controllable Fabrication and Electrical Performance of Single Crystalline Cu ₂ O Nanowires with High Aspect Ratios. 2007 , 7, 3723-3728	210
1886	Solution-Phase Synthesis of Single-Crystal CuO Nanoribbons and Nanorings. 2007 , 7, 930-934	140
1885	Pseudocapacitive Contributions to Electrochemical Energy Storage in TiO ₂ (Anatase) Nanoparticles. 2007 , 111, 14925-14931	2814
1884	Single-Step Synthesis, Characterization, and Application of Nanostructured K _x Mn _{1-y} Co _y O ₂ with Controllable Chemical Compositions and Crystal Structures. 2007 , 19, 5010-5017	55
1883	Surfactant-Assisted Hydrothermal Growth of Single-Crystalline Ultrahigh-Aspect-Ratio Vanadium Oxide Nanobelts. 2007 , 7, 1893-1897	71
1882	Preparation of acacia-stabilized silver nanoparticles: A green approach. 2007 , 106, 3375-3381	110
1881	Ordered mesoporous copper oxide with crystalline walls. 2007 , 46, 738-41	118
1880	The preparation of supported NiO and Co ₃ O ₄ nanoparticles by the nitric oxide controlled thermal decomposition of nitrates. 2007 , 46, 4547-9	196
1879	Formation of lithium-driven active/inactive nanocomposite electrodes based on Ca ₃ Co ₄ O ₉ nanoplates. 2007 , 46, 6654-7	67
1878	Controlled synthesis and chemical conversions of FeO nanoparticles. 2007 , 46, 6329-32	242
1877	Ordered Mesoporous Copper Oxide with Crystalline Walls. 2007 , 119, 752-755	19
1876	The Preparation of Supported NiO and Co ₃ O ₄ Nanoparticles by the Nitric Oxide Controlled Thermal Decomposition of Nitrates. 2007 , 119, 4631-4633	36
1875	Formation of Lithium-Driven Active/Inactive Nanocomposite Electrodes Based on Ca ₃ Co ₄ O ₉ Nanoplates. 2007 , 119, 6774-6777	7
1874	Controlled Synthesis and Chemical Conversions of FeO Nanoparticles. 2007 , 119, 6445-6448	62
1873	Nanophase ZnCo ₂ O ₄ as a High Performance Anode Material for Li-Ion Batteries. 2007 , 17, 2855-2861	532
1872	Non-Hydrothermal Synthesis of 1D Nanostructured Manganese-Based Oxides: Effect of Cation Substitution on the Electrochemical Performance of Nanowires. 2007 , 17, 2949-2956	49
1871	Synthesis of Hierarchically Porous Carbon Monoliths with Highly Ordered Microstructure and Their Application in Rechargeable Lithium Batteries with High-Rate Capability. 2007 , 17, 1873-1878	622
1870	Fe ₂ O ₃ Nanoflakes as an Anode Material for Li-Ion Batteries. 2007 , 17, 2792-2799	941

- 1869 Co₃O₄ Nanostructures with Different Morphologies and their Field-Emission Properties. **2007**, 17, 1932-1939 260
- 1868 Seed-Mediated Synthesis of Monodispersed Cu₂O Nanocubes with Five Different Size Ranges from 40 to 420 nm. **2007**, 17, 3773-3780 318
- 1867 A Tin-Based Amorphous Oxide Composite with a Porous, Spherical, Multideck-Cage Morphology as a Highly Reversible Anode Material for Lithium-Ion Batteries. **2007**, 19, 993-997 295
- 1866 Mesoporous Crystalline γ -MnO₂ Reversible Positive Electrode for Rechargeable Lithium Batteries. **2007**, 19, 657-660 460
- 1865 Porous Co₃O₄ Nanotubes Derived From Co₄(CO)₁₂ Clusters on Carbon Nanotube Templates: A Highly Efficient Material For Li-Battery Applications. **2007**, 19, 4505-4509 405
- 1864 Aromatic Carbonyl Derivative Polymers as High-Performance Li-Ion Storage Materials. **2007**, 19, 1616-1621 351
- 1863 Black Phosphorus and its Composite for Lithium Rechargeable Batteries. **2007**, 19, 2465-2468 542
- 1862 Synthesis and Functional Properties of Vanadium Oxides: V₂O₃, VO₂, and V₂O₅ Deposited on Glass by Aerosol-Assisted CVD. **2007**, 13, 145-151 118
- 1861 ⁵⁷Fe Mössbauer spectroscopy and electron microscopy study of metal extraction from CuFe(2)O(4) electrodes in lithium cells. **2007**, 8, 1999-2007 46
- 1860 Controllable synthesis of CoO nanosheets and their magnetic properties. **2007**, 8, 2091-5 27
- 1859 Nanostructured Cu₂O thin film electrodes prepared by electrodeposition for rechargeable lithium batteries. **2007**, 515, 5505-5511 52
- 1858 Depositing Cu₂O of different morphology on chitosan nanoparticles by an electrochemical method. **2007**, 67, 623-629 40
- 1857 Structural evolution during the reaction of Li with nano-sized rutile type TiO₂ at room temperature. **2007**, 9, 337-342 189
- 1856 Net-structured NiO/C nanocomposite as Li-intercalation electrode material. **2007**, 9, 1180-1184 136
- 1855 A novel approach to explore Zn based anodes for lithium-ion battery applications. **2007**, 52, 2453-2460 12
- 1854 Spherical NiO-C composite for anode material of lithium ion batteries. **2007**, 52, 4177-4181 143
- 1853 Electrodeposition and electrochemical characterisation of thick and thin coatings of Sb and Sb/Sb₂O₃ particles for Li-ion battery anodes. **2007**, 53, 1062-1073 36
- 1852 Sol-gel preparation of cobalt manganese mixed oxides for their use as electrode materials in lithium cells. **2007**, 52, 7986-7995 135

1851	LiMn ₂ O ₄ hollow nanosphere electrode material with excellent cycling reversibility and rate capability. 2007 , 9, 1404-1409	75
1850	Electrochemical and morphological stabilization of V ₂ O ₅ nanofibers by the addition of polyaniline. 2007 , 52, 4419-4427	65
1849	Influence of electrode microstructure on the reactivity of Cu ₂ Sb with lithium. 2007 , 52, 5339-5345	70
1848	Reaction mechanisms of tridymite iron phosphate with lithium ions in the low-voltage range. 2007 , 53, 1843-1849	9
1847	Exploration of artificial neural network [ANN] to predict the electrochemical characteristics of lithium-ion cells. 2007 , 53, 1877-1882	49
1846	Novel synthesis of Cu ₂ O nano cubes derived from hydrolysis of Cu nano powder and its high catalytic effects. 2007 , 449-451, 817-820	11
1845	Synthesis and characterization of electrochemically active graphite-silicon composite anodes for Li-ion applications. 2007 , 164, 829-838	35
1844	Structure, texture and reactivity versus lithium of chromium-based oxides films as revealed by TEM investigations. 2007 , 164, 839-848	36
1843	Enhanced high rate performance of LiMn ₂ O ₄ spinel nanoparticles synthesized by a hard-template route. 2007 , 166, 492-498	58
1842	Fabrication of CuO film with network-like architectures through solution-immersion and their application in lithium ion batteries. 2007 , 167, 206-211	115
1841	Effect of calcination temperature on morphology, crystallinity and electrochemical properties of nano-crystalline metal oxides (Co ₃ O ₄ , CuO, and NiO) prepared via ultrasonic spray pyrolysis. 2007 , 173, 502-509	158
1840	Vanadium diphosphides as negative electrodes for secondary Li-ion batteries. 2007 , 172, 877-885	50
1839	Effect of Cu ₂ O coating on graphite as anode material of lithium ion battery in PC-based electrolyte. 2007 , 171, 904-907	37
1838	Lithium recycling behaviour of nano-phase-CuCo ₂ O ₄ as anode for lithium-ion batteries. 2007 , 173, 495-501	185
1837	Preparation of Cu ₂ O particles with different morphologies and their application in lithium ion batteries. 2007 , 174, 1197-1200	69
1836	Studies of layered lithium metal oxide anodes in lithium cells. 2007 , 174, 1052-1056	21
1835	NiSb ₂ as negative electrode for Li-ion batteries: An original conversion reaction. 2007 , 172, 388-394	58
1834	Electrochemical properties of electrodeposited nicked phosphide thin films in lithium cells. 2007 , 171, 870-878	38

1833	CoFe ₂ O ₄ and NiFe ₂ O ₄ synthesized by sol-gel procedures for their use as anode materials for Li ion batteries. 2007 , 172, 379-387	286
1832	Controlled synthesis of CuO nanostructures by a simple solution route. 2007 , 180, 1390-1396	125
1831	Fluoride based electrode materials for advanced energy storage devices. 2007 , 128, 243-262	320
1830	Size-controlled synthesis and electrochemical characterization of spherical CeO ₂ crystallites. 2007 , 307, 135-8	42
1829	3-D ordered macroporous cuprous oxide: Fabrication, optical, and photoelectrochemical properties. 2007 , 308, 460-5	45
1828	Shape- and size-controlled electrochemical synthesis of cupric oxide nanocrystals. 2007 , 303, 400-406	91
1827	Synthesis and characterization of hierarchical NiO nanoflowers with porous structure. 2007 , 306, 418-421	57
1826	XAS analysis on mesoporous vanadium oxide thin films by sol-gel. 2007 , 36, 226-229	
1825	A relation between the electrochemical behaviors and morphology of NiCo ₃ O ₄ composites prepared by the chemical reduction method or the mechanical milling. 2007 , 105, 245-249	2
1824	Preparation of LiMn ₂ O ₄ nanoparticles for Li ion secondary batteries by laser ablation in water. 2007 , 61, 2062-2065	16
1823	A simple solvothermal reduction route to copper and cuprous oxide. 2007 , 61, 2147-2150	15
1822	Synthesis of sphere-like Co ₃ O ₄ nanocrystals via a simple polyol route. 2007 , 61, 4894-4896	173
1821	Dandelion-like hollow microspheres of CuO as anode material for lithium-ion batteries. 2007 , 57, 337-340	129
1820	Nanoporous cuprous oxide/lithia composite anode with capacity increasing characteristic and high rate capability. 2007 , 18, 055706	65
1819	Iron-based composite oxides as alternative negative electrodes for lithium-ion batteries. 2007 , 42, 3353-3357	6
1818	Fabrication of nanocomposite membranes from nanofibers and nanoparticles for protection against chemical warfare stimulants. 2007 , 42, 8400-8407	99
1817	Synthesis, characterization and lithium-intercalation properties of rod-like CaMoO ₄ nanocrystals. 2007 , 11, 1127-1131	20
1816	Tungsten Oxide Nanorods Array and Nanobundle Prepared by Using Chemical Vapor Deposition Technique. 2007 , 2, 405-409	41

1815	The effect of the inner particle structure on the electronic structure of the nano-crystalline LiMn_2O_4 spinels. 2007 , 52, 1847-1856	38
1814	Electrochemical lithium insertion into anatase-type TiO_2 : An in situ Raman microscopy investigation. 2007 , 52, 5357-5367	112
1813	Flower-like CuO film-electrode for lithium ion batteries and the effect of surface morphology on electrochemical performance. 2007 , 53, 951-956	81
1812	Nanotechnology and the environment: A European perspective. 2007 , 8, 19-24	140
1811	Copper(I) oxide and metallic copper particles formed in 1,2-propane diol. 2007 , 27, 987-991	29
1810	Carbon nanocoatings on active materials for Li-ion batteries. 2007 , 27, 909-913	65
1809	Characterization of electrolytic Co_3O_4 thin films as anodes for lithium-ion batteries. 2007 , 166, 478-484	156
1808	An O_2 cathode for rechargeable lithium batteries: The effect of a catalyst. 2007 , 174, 1177-1182	519
1807	Size effects on mass transport and storage in lithium batteries. 2007 , 174, 569-574	68
1806	Large-scale synthesis of single-crystal hexagonal tungsten trioxide nanowires and electrochemical lithium intercalation into the nanocrystals. 2007 , 180, 98-105	165
1805	The study of Mg_2Si /carbon composites as anode materials for lithium ion batteries. 2008 , 175, 547-552	33
1804	$\text{Li}_{1+x}\text{FePO}_4$ ($0 \leq x \leq 1$) as anode material for lithium ion batteries: From ab initio studies. 2008 , 175, 891-896	16
1803	MoO_2 synthesized by reduction of MoO_3 with ethanol vapor as an anode material with good rate capability for the lithium ion battery. 2008 , 179, 357-360	124
1802	Controlled synthesis of $\gamma\text{-Fe}_2\text{O}_3$ nanostructures and their size-dependent electrochemical properties for lithium-ion batteries. 2008 , 184, 456-461	104
1801	Electrospinning synthesis of $\text{C}/\text{Fe}_3\text{O}_4$ composite nanofibers and their application for high performance lithium-ion batteries. 2008 , 183, 717-723	426
1800	Lithium electrochemistry of SiO_2 thin film electrode for lithium-ion batteries. 2008 , 254, 3774-3779	185
1799	The applications of X-ray absorption spectroscopy in the study of nanocrystalline materials and electrochemical systems. 2008 , 11, 948-963	12
1798	Electrochemical lithium storage of titania nanotubes modified with NiO nanoparticles. 2008 , 53, 4573-4579	33

1797	Synthesis and electrochemical performance of carbon nanofiber/cobalt oxide composites. 2008 , 53, 7326-7330	83
1796	Thin films of Cu ₂ Sb and Cu ₉ Sb ₂ as anode materials in Li-ion batteries. 2008 , 53, 7226-7234	39
1795	Novel method to deposit metal particles on transition metal oxide films and its application in lithium-ion batteries. 2008 , 54, 197-202	18
1794	The use of copper(II) oxide nanorod bundles for the non-enzymatic voltammetric sensing of carbohydrates and hydrogen peroxide. 2008 , 135, 230-235	167
1793	Electrochemical reactivity mechanism of CuInSe ₂ with lithium. 2008 , 516, 8386-8392	9
1792	Synthesis and electrochemical properties of different sizes of the CuO particles. 2008 , 10, 839-844	53
1791	A ⁵⁷ Fe Mössbauer spectroscopy study of iron nanoparticles obtained in situ in conversion ferrite electrodes. 2008 , 183, 1-5	2
1790	⁵⁷ Fe Mössbauer study of the electrochemical reaction of Li with FeP _y (y = 1,2). 2008 , 187, 57-69	6
1789	Fabrication of nanosized metallic copper by electrochemical milling process. 2008 , 43, 1492-1496	24
1788	SnO ₂ @C core-shell spheres: synthesis, characterization, and performance in reversible Li-ion storage. 2008 , 43, 2778-2784	56
1787	Fabrication and characterization of Li _{0.5} Fe _{2.5} O ₄ octahedrons via a TEA-assisted route. 2008 , 43, 5948-5951	11
1786	Synthesis, characterization and magnetic properties of Co ₃ O ₄ nanotubes. 2008 , 91, 47-51	58
1785	Nanostructured transition metal phosphide as negative electrode for lithium-ion batteries. 2008 , 14, 183-190	51
1784	The electrochemical reactivity of the NiP ₃ skutterudite-type phase with lithium. 2008 , 14, 125-130	37
1783	Origin of Capacity Fading in Nano-Sized Co ₃ O ₄ Electrodes: Electrochemical Impedance Spectroscopy Study. 2008 , 3, 390-394	58
1782	Mesoscale organization of CuO nanoslices: Formation of sphere. 2008 , 31, 193-195	6
1781	Electrochemical evaluation of CuFe ₂ O ₄ samples obtained by sol-gel methods used as anodes in lithium batteries. 2008 , 12, 729-737	77
1780	A comparison of anodically grown CuO nanotube film and Cu ₂ O film as anodes for lithium ion batteries. 2008 , 12, 941-945	79

1779	Synthesis of Mo-cluster compound, LiHoMo ₃ O ₈ by carbothermal reduction and its reactivity towards Li. 2008 , 12, 953-959	22
1778	Direct soft-chemical synthesis of chalcogen-doped manganese oxide 1D nanostructures: influence of chalcogen doping on electrode performance. 2008 , 4, 507-14	10
1777	Surfactant-free synthesis of hyperbranched monoclinic bismuth vanadate and its applications in photocatalysis, gas sensing, and lithium-ion batteries. 2008 , 14, 1601-6	179
1776	Direct thermal decomposition of metal nitrates in octadecylamine to metal oxide nanocrystals. 2008 , 14, 2507-13	98
1775	Oriented nanostructures for energy conversion and storage. 2008 , 1, 676-97	333
1774	Nanomaterials for rechargeable lithium batteries. 2008 , 47, 2930-46	5042
1773	The Effect of Morphological Modification on the Electrochemical Properties of SnO ₂ Nanomaterials. 2008 , 18, 455-461	291
1772	Carbon Coated Fe ₃ O ₄ Nanospindles as a Superior Anode Material for Lithium-Ion Batteries. 2008 , 18, 3941-3946	1119
1771	Enhanced Potential of Amorphous Electrode Materials: Case Study of RuO ₂ . 2008 , 20, 501-505	161
1770	Self-Supported Formation of Needlelike Co ₃ O ₄ Nanotubes and Their Application as Lithium-Ion Battery Electrodes. 2008 , 20, 258-262	900
1769	Precursor-Controlled Formation of Novel Carbon/Metal and Carbon/Metal Oxide Nanocomposites. 2008 , 20, 1727-1731	178
1768	Thermal Oxidation Strategy towards Porous Metal Oxide Hollow Architectures. 2008 , 20, 2622-2627	281
1767	Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. 2008 , 20, 2878-2887	1893
1766	Hollow Micro-/Nanostructures: Synthesis and Applications. 2008 , 20, 3987-4019	2631
1765	Reversible Lithium-Ion Insertion in Molybdenum Oxide Nanoparticles. 2008 , 20, 3627-3632	304
1764	Nanomaterialien für wiederaufladbare Lithiumbatterien. 2008 , 120, 2972-2989	291
1763	Ionic liquid-assisted synthesis of copper oxalate nanowires and their conversion to copper oxide nanowires. 2008 , 310, 4628-4634	33
1762	Mesoporous Cr ₂ O ₃ as negative electrode in lithium batteries: TEM study of the texture effect on the polymeric layer formation. 2008 , 175, 502-509	91

1761	Electrochemical performance of In ₂ O ₃ thin film electrode in lithium cell. 2008 , 175, 897-902	53
1760	Novel carbon nanofiber-cobalt oxide composites for lithium storage with large capacity and high reversibility. 2008 , 176, 369-372	77
1759	CoO-loaded graphitizable carbon hollow spheres as anode materials for lithium-ion battery. 2008 , 177, 546-552	128
1758	Electrochemical performances of BiSbO ₄ as electrode material for lithium batteries. 2008 , 182, 365-369	25
1757	Electrochemical deposition of porous Co ₃ O ₄ nanostructured thin film for lithium-ion battery. 2008 , 182, 359-364	114
1756	Mechanochemical synthesis of Fe ₂ O ₃ nanoparticles and their application to all-solid-state lithium batteries. 2008 , 183, 418-421	16
1755	Fabrication and characterization of Fe ₃ O ₄ -based Cu nanostructured electrode for Li-ion battery. 2008 , 185, 512-518	64
1754	One-pot synthesis of CoO/C hybrid microspheres as anode materials for lithium-ion batteries. 2008 , 185, 486-491	68
1753	Electrochemical fabrication of anatase TiO ₂ nanostructure as an anode material for aqueous lithium-ion batteries. 2008 , 185, 1420-1424	59
1752	Synthesis of quasi-1D cuprous oxide nanostructure and its structural characterizations. 2008 , 69, 1718-1727	7
1751	Electrochemical properties of Si/LiTi ₂ O ₄ nanocomposite as anode materials for Li-ion secondary batteries. 2008 , 616, 7-13	19
1750	Characteristics and properties of polyimide/vanadium oxide hybrid membranes. 2008 , 233, 232-238	15
1749	A new strategy of molecular overcharge protection shuttles for lithium ion batteries. 2008 , 10, 651-654	11
1748	Nanocrystalline ZnMn ₂ O ₄ as a novel lithium-storage material. 2008 , 10, 1117-1120	135
1747	Li-storage and cyclability of urea combustion derived ZnFe ₂ O ₄ as anode for Li-ion batteries. 2008 , 53, 2380-2385	210
1746	The structural evolution and lithiation behavior of vacuum-deposited Si film with high reversible capacity. 2008 , 53, 5660-5664	51
1745	Partially positively charged silver nanoparticles prepared by p-benzoquinone. 2008 , 320, 189-192	10
1744	A study of the curing behavior of polyamic acid coated on a Cu or Zn layer. 2008 , 324, 122-125	15

1743	NiO nanotubes assembled in pores of porous anodic alumina and their optical absorption properties. 2008 , 454, 75-79	40
1742	Effects of low-temperature carbon encapsulation on the electrochemical performance of SnO ₂ nanopowders. 2008 , 46, 35-40	52
1741	Optical and electrochemical properties of nanosized CuO via thermal decomposition of copper oxalate. 2008 , 52, 245-248	80
1740	An efficient synthesis of propargylamines via three-component coupling of aldehydes, amines and alkynes catalyzed by nanocrystalline copper(II) oxide. 2008 , 49, 3083-3086	102
1739	Synthesis and magnetic properties of antiferromagnetic Co ₃ O ₄ nanoparticles. 2008 , 403, 3141-3145	49
1738	Studies on the photocatalytic performance of cuprous oxide/chitosan nanocomposites activated by visible light. 2008 , 72, 128-132	59
1737	Li _{0.68} Ni _{1.32} O ₂ /Ag nanocomposite: A Li-intercalation anode material with higher coulombic efficiency and better cycling performance. 2008 , 10, 16-19	10
1736	Tremella-like molybdenum dioxide consisting of nanosheets as an anode material for lithium ion battery. 2008 , 10, 118-122	151
1735	Phosphatization: A promising approach to enhance the performance of mesoporous TiO ₂ anode for lithium ion batteries. 2008 , 10, 616-620	31
1734	Electrochemical characteristics of spinel Li ₄ Ti ₅ O ₁₂ discharged to 0.01V. 2008 , 10, 719-722	149
1733	A general electrochemical approach to deposition of metal hydroxide/oxide nanostructures onto carbon nanotubes. 2008 , 10, 761-765	25
1732	Nickel foam-supported porous NiO/polyaniline film as anode for lithium ion batteries. 2008 , 10, 1288-1290	141
1731	Magnetite/carbon core-shell nanorods as anode materials for lithium-ion batteries. 2008 , 10, 1879-1882	229
1730	Hydrothermal synthesis of Co ₃ O ₄ microspheres as anode material for lithium-ion batteries. 2008 , 53, 2507-2513	166
1729	Nano-sized cobalt oxide/mesoporous carbon sphere composites as negative electrode material for lithium-ion batteries. 2008 , 53, 6497-6503	116
1728	Template electrosynthesis of aligned Cu ₂ O nanowires: Part I. Fabrication and characterization. 2008 , 53, 6504-6512	33
1727	Synthesis of CoOOH Hierarchically Hollow Spheres by Nanorod Self-Assembly through Bubble Templating. 2008 , 20, 2049-2056	79
1726	Lithium Insertion into Transition-Metal Monosulfides: Tuning the Position of the Metal 4s Band. 2008 , 112, 15060-15064	114

1725	Hexagonal-shaped tin glycolate particles: a preliminary study of their suitability as li-ion insertion electrodes. 2008 , 3, 854-61	7
1724	Synthesis of nano-sized Co ₃ O ₄ powder by spray conversion method for anode material of lithium battery. 2008 , 14, 229-232	16
1723	Electrochemical characteristics of single crystalline nanowires and their driven mechanism. 2008 , 14, 477-480	10
1722	Impedance spectroscopy of lithium-tin film electrodes. 2008 , 44, 550-557	22
1721	Building better batteries. <i>Nature</i> , 2008 , 451, 652-7	50.4 14075
1720	Wrap-bake-peel process for nanostructural transformation from beta-FeOOH nanorods to biocompatible iron oxide nanocapsules. 2008 , 7, 242-7	37 ¹
1719	Metal hydrides for lithium-ion batteries. 2008 , 7, 916-21	303
1718	High-performance lithium battery anodes using silicon nanowires. 2008 , 3, 31-5	5216
1717	Preparation of cobalt oxide nanoparticles and cobalt powders by solvothermal process and their characterization. 2008 , 110, 457-462	51
1716	Hydrothermal synthesis and electrochemical properties of alpha-manganese sulfide submicrocrystals as an attractive electrode material for lithium-ion batteries. 2008 , 111, 13-16	79
1715	Synthesis and electrochemical properties of CuO nanobelts. 2008 , 112, 726-729	29
1714	Solution-phase synthesis of smaller cuprous oxide nanocubes. 2008 , 43, 1583-1589	18
1713	Issue and challenges facing rechargeable thin film lithium batteries. 2008 , 43, 1913-1942	454
1712	Ion exchange and electrochemical evaluation of the microporous phosphate Li ₉ Fe ₇ (PO ₄) ₁₀ . 2008 , 43, 3389-3396	6
1711	Preparation and characterization of hollow Co ₃ O ₄ spheres. 2008 , 62, 772-774	18
1710	Synthesis of Cu ₂ O nano-whiskers by a novel wet-chemical route. 2008 , 62, 886-888	42
1709	A facile hydrothermal route to synthesize novel Co ₃ O ₄ nanoplates. 2008 , 62, 1507-1510	49
1708	Structure and size effect of CuO nanowires prepared by low temperature solid-phase process. 2008 , 62, 1724-1726	37

1707	Synthesis and electrochemical properties of Co ₃ O ₄ nanofibers as anode materials for lithium-ion batteries. 2008 , 62, 3410-3412	50
1706	Nanostructured nickel fluoride thin film as a new Li storage material. 2008 , 10, 1166-1172	35
1705	Enhanced interfacial lithium storage in nanocomposites of transition metals with LiF and Li ₂ O: Comparison of DFT calculations and experimental studies. 2008 , 10, 491-495	73
1704	Large-scale growth and shape evolution of micrometer-sized Cu ₂ O cubes with concave planes via Irradiation. 2008 , 10, 1322-1326	12
1703	Fiberlike Fe ₂ O ₃ Macroporous Nanomaterials Fabricated by Calcinating Regenerate Cellulose Composite Fibers. 2008 , 20, 3623-3628	125
1702	Introducing Dual Functional CNT Networks into CuO Nanomicrospheres toward Superior Electrode Materials for Lithium-Ion Batteries. 2008 , 20, 3617-3622	255
1701	Ammonia-Evaporation-Induced Synthetic Method for Metal (Cu, Zn, Cd, Ni) Hydroxide/Oxide Nanostructures. 2008 , 20, 567-576	138
1700	Fabrication of silver vanadium oxide and V ₂ O ₅ nanowires for electrochromics. 2008 , 2, 293-301	258
1699	Fe ₂ O ₃ Nanostructures: Inorganic Salt-Controlled Synthesis and Their Electrochemical Performance toward Lithium Storage. 2008 , 112, 16824-16829	200
1698	Facile Synthesis of Porous Fe ₂ O ₃ Nanorods and Their Application in Ethanol Sensors. 2008 , 112, 17804-17808	140
1697	Synthesis of Colloidal Magnesium: A Near Room Temperature Store for Hydrogen. 2008 , 20, 376-378	165
1696	LiMn ₂ O ₄ Nanorods, Nanothorn Microspheres, and Hollow Nanospheres as Enhanced Cathode Materials of Lithium Ion Battery. 2008 , 112, 12051-12057	111
1695	Nanostructured electrode materials for electrochemical energy storage and conversion. 2008 , 1, 621	481
1694	Aligned 2-D Nanosheet Cu ₂ O Film: Oriented Deposition on Cu Foil and Its Photoelectrochemical Property. 2008 , 112, 18916-18922	53
1693	Template-Directed Materials for Rechargeable Lithium-Ion Batteries. 2008 , 20, 667-681	467
1692	Low-Temperature Synthesis of Flower-Shaped CuO Nanostructures by Solution Process: Formation Mechanism and Structural Properties. 2008 , 112, 5729-5735	155
1691	Green Fabrication of Hierarchical CuO Hollow Micro/Nanostructures and Enhanced Performance as Electrode Materials for Lithium-ion Batteries. 2008 , 112, 19324-19328	173
1690	Facile Synthesis of Nanoporous MnO ₂ Structures and Their Application in Rechargeable Li-Ion Batteries. 2008 , 8, 2799-2805	169

1689	Chemical synthesis, characterisation and gas sensing performance of copper oxide nanoribbons. 2008 , 18, 965	220
1688	Hollow Core-Shell Mesospheres of Crystalline SnO ₂ Nanoparticle Aggregates for High Capacity Li ⁺ Ion Storage. 2008 , 20, 1841-1846	350
1687	Hydrothermal Synthesis of Uniform Cuprous Oxide Microcrystals with Controlled Morphology. 2008 , 8, 3731-3734	86
1686	Mesoporous Co ₃ O ₄ nanowire arrays for lithium ion batteries with high capacity and rate capability. 2008 , 8, 265-70	1167
1685	Synthesis of fluorescent and photovoltaic Cu(2)O nanocubes. 2008 , 19, 025604	56
1684	From cobalt nitrate carbonate hydroxide hydrate nanowires to porous Co(3)O(4) nanorods for high performance lithium-ion battery electrodes. 2008 , 19, 035711	99
1683	Novel Microwave Synthesis of Nanocrystalline SnO ₂ and Its Electrochemical Properties. 2008 , 112, 4550-4556	93
1682	Impact of Rare Earth Additions on Transition Metal Oxides as Negative Electrodes for Lithium-Ion Batteries. 2008 , 155, A975	22
1681	A Novel Heterostructure of Co ₃ O ₄ /ZnO Nanowire Array Fabricated by Photochemical Coating Method. 2008 , 112, 74-79	69
1680	Silicon nanowires for rechargeable lithium-ion battery anodes. 2008 , 93, 033105	329
1679	Hydrothermal synthesis of cuprous oxide microstructures assembled from needles. 2008 , 455, L15-L18	12
1678	Synthesis, characterization and electrochemical properties of aluminum-substituted alpha-Ni(OH) ₂ hollow spheres. 2008 , 456, 339-343	46
1677	Much improved capacity and cycling performance of LiVMoO ₆ cathode for lithium ion batteries. 2008 , 457, 389-393	12
1676	Electrical and electrochemical properties of Li ₂ CuZrO ₄ . 2008 , 460, 549-552	
1675	High capacity Li ion battery anodes using ge nanowires. 2008 , 8, 307-9	804
1674	One-Pot Synthesis of Carbon Au Coaxial Nanocable for Lithium-Ion Batteries with High Rate Capability. 2008 , 20, 6951-6956	156
1673	First-Principles Investigation of the Li-Fe Phase Diagram and Equilibrium and Nonequilibrium Conversion Reactions of Iron Fluorides with Lithium. 2008 , 20, 5274-5283	200
1672	New insight in the behaviour of Co-Fe system at 25-50°C, based on revised Pourbaix diagrams. 2008 , 50, 62-69	138

1671	Size effects and nanostructured materials for energy applications. 2008 , 1, 645	158
1670	Fabrication of NiO Nanowall Electrodes for High Performance Lithium Ion Battery. 2008 , 20, 3360-3367	553
1669	Facile Synthesis and Hierarchical Assembly of Hollow Nickel Oxide Architectures Bearing Enhanced Photocatalytic Properties. 2008 , 112, 15299-15305	213
1668	Inorganic nanomaterials for batteries. 2008 , 5424-31	90
1667	Synthesis of Nanocrystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ by Chemical Lithiation of Anatase Nanocrystals and Postannealing. 2008 , 155, A553	48
1666	Thermal formation of mesoporous single-crystal Co_3O_4 nano-needles and their lithium storage properties. 2008 , 18, 4397	297
1665	High capacity and excellent cycling stability of single-walled carbon nanotube/ SnO_2 core-shell structures as Li-insertion materials. 2008 , 92, 223101	66
1664	Nickel Foam-Supported Porous NiO/Ag Film Electrode for Lithium-Ion Batteries. 2008 , 155, A438	68
1663	Stamped microbattery electrodes based on self-assembled M13 viruses. 2008 , 105, 17227-31	127
1662	$\text{NiCo}_2\text{O}_4/\text{C}$ Nanocomposite as a Highly Reversible Anode Material for Lithium-Ion Batteries. 2008 , 11, A64	78
1661	Honeycomb pattern array of vertically standing core-shell nanorods: Its application to Li energy electrodes. 2008 , 93, 103104	17
1660	Studies on Nano- CaO/SnO_2 and Nano- CaSnO_3 as Anodes for Li-Ion Batteries. 2008 , 20, 6829-6839	69
1659	Synthesis and Lithium Insertion into Nanophase MgTi_2O_5 with Pseudo-Brookite Structure. 2008 , 20, 2192-2197	9
1658	Impact of Binder Choice on the Performance of Fe_2O_3 as a Negative Electrode. 2008 , 155, A812	150
1657	Polyol synthesis of Cu_2O nanoparticles: use of chloride to promote the formation of a cubic morphology. 2008 , 18, 4069	135
1656	Role of Electrochemically Driven Cu Nanograins in CuGa_2 Electrode. 2008 , 20, 447-453	21
1655	Formation of Flower-Like Carbon Nanosheet Aggregations and Their Electrochemical Application. 2008 , 112, 13114-13120	54
1654	Facile Electrochemical Synthesis of Single-Crystalline Copper Nanospheres, Pyramids, and Truncated Pyramidal Nanoparticles from Lithia/Cuprous Oxide Composite Thin Films. 2008 , 112, 4176-4179	27

1653	Direct Correlation between the ^{31}P MAS NMR Response and the Electronic Structure of Some Transition Metal Phosphides. 2008 , 112, 20481-20490	44
1652	Time and distance dependence of reversible polymer bridging followed by single-molecule force spectroscopy. 2008 , 24, 4738-42	18
1651	Multilayered Cobalt Oxide Platelets for Negative Electrode Material of a Lithium-Ion Battery. 2008 , 155, A903	144
1650	Reduction-Free Synthesis of Carbon-Encapsulated SnO_2 Nanowires and Their Superiority in Electrochemical Performance. 2008 , 112, 11286-11289	28
1649	Carbon-Coated Macroporous $\text{Sn}_2\text{P}_2\text{O}_7$ as Anode Materials for Li-Ion Battery. 2008 , 112, 14216-14219	55
1648	A Mössbauer effect study of combinatorially prepared $\text{Al}_2\text{O}_3/\text{Fe}$ and LiF/Fe multilayers. 2008 , 20, 055203	6
1647	Li_3NiCo Nanocomposite: A New Promising Lithium-Ion Storage Material. 2008 , 11, A51	11
1646	Nanostructured manganese oxides and their composites with carbon nanotubes as electrode materials for energy storage devices. 2008 , 80, 2327-2343	29
1645	Cyanide and Phenol Oxidation on Nanostructured Co_3O_4 Electrodes Prepared by Different Methods. 2008 , 155, K110	31
1644	Electrochemical Properties of Nanostructured $\text{Al}_{1-x}\text{Cu}_x$ Alloys as Anode Materials for Rechargeable Lithium-Ion Batteries. 2008 , 155, A615	26
1643	. 2008 ,	
1642	Generation and detection of a spin entanglement in nonequilibrium quantum dots. 2008 , 10, 045016	9
1641	Precipitation of CoS vs Ceramic Synthesis for Improved Performance in Lithium Cells. 2008 , 155, A189	35
1640	Shape Evolution of Fe_2O_3 and Its Size-Dependent Electrochemical Properties for Lithium-Ion Batteries. 2008 , 155, A196	83
1639	Cobalt Oxide Nanoparticles Prepared from Reverse Micelles as High-Capacity Electrode Materials for Li-Ion Cells. 2008 , 11, A198	19
1638	$\text{Cr}_{1-x}\text{Fe}_x\text{N}$ ($0 \leq x \leq 1$) Ternary Transition-Metal Nitrides as Anode Materials for Lithium-Ion Batteries. 2008 , 11, A233	26
1637	Spherical CoS_2 @carbon core-shell nanoparticles: one-pot synthesis and Li storage property. 2008 , 19, 075602	49
1636	Water-Cooked Cu_2O Films for Lithium-Ion Batteries. 2008 , 155, A452	14

1635	HOTPLATE TECHNIQUE FOR NANOMATERIALS. 2008 , 04, 235-255	5
1634	Combinatorial investigations of Co-LiF and Co-Li ₃ N nanocomposite as new lithium storage material. 2008 ,	
1633	?????????????????????????????. 2008 , 76, 343-348	
1632	????LiCoO ₂ ?????????. 2008 , 76, 349-353	
1631	Synthesis of Monodisperse-and-Spherical V ₂ O ₅ Fine Particles and Their Self-Assembling. 2008 , 55, 637-642	
1630	Generation and Sizing of Particles for Aerosol-Based Nanotechnology. 2008 , 26, 13-35	76
1629	Facile Fabrication of Cu ₂ O/CuO Nanocomposite Films for Lithium-Ion Batteries via Chemical Bath Deposition. 2009 , 12, A50	27
1628	Mechanical and electronic properties of vanadium oxide nanotubes. 2009 , 105, 074317	24
1627	Electrochemical Charge for the Formation of Metal Hydrides from LiH+M (M=Mg, Al). 2009 , 1216, 1	
1626	Nonlinear optical properties of multi-metal nanocomposites in a glass matrix. 2009 , 42, 175401	16
1625	Synthesis, field emission and humidity sensing characteristics of honeycomb-like CuO. 2009 , 42, 075417	22
1624	Self-Oriented Ca ₃ Co ₄ O ₉ Thin Film as an Anode Material for Enhanced Cycling Stability of Lithium-Ion Batteries. 2009 , 12, A176	10
1623	Preparation and characterization of CuO nanowire arrays. 2009 , 30, 072003	11
1622	Electrochemical properties of SnO ₂ nanorods as anode materials in lithium-ion battery. 2009 , 18, 4564-4570	17
1621	Thermoelectrochemically Activated MoO ₂ Powder Electrode for Lithium Secondary Batteries. 2009 , 156, A688	134
1620	Synthesis and Electrochemical Characteristics of Flowerlike Hierarchically Nanostructured ZnO Film. 2009 , 156, K82	5
1619	Growth of Cu ₂ O Nanocrystals on Stainless Steel Substrates by Electrodeposition in Presence of Surfactants. 2009 , 156, E143	10
1618	Electrochemical growth and resistive switching of flat-surfaced and (111)-oriented Cu ₂ O films. 2009 , 95, 092108	31

1617	Lithium-Ion (De)Insertion Reaction of Germanium Thin-Film Electrodes: An Electrochemical and In Situ XRD Study. 2009 , 156, A169	144
1616	Emulsion-Phase Synthesis of Highly Dispersed Cu[sub 2]O Aggregates: From Microspheres, to Flower-Like Cubes, to Octahedra. 2009 , 156, K91	2
1615	Stress-driven formation of terraced hollow oxide nanorods during metal oxidation. 2009 , 105, 104302	10
1614	Electrochemical Behaviors and Reaction Mechanism of Nanosilver with Lithium. 2009 , 12, A171	37
1613	Electrochemical Characterization of Li[sub 3]NBi Nanocomposite Thin Films by Pulsed Laser Deposition. 2009 , 156, A425	3
1612	Synthesis of nanobelt-tangled spheroids of copper (II) oxide at room temperature and their application for lithium-ion batteries. 2009 , 60, 1117-1120	9
1611	Well-aligned Cu ₂ O nanowire arrays prepared by an ethylene glycol-reduced process. 2009 , 114, 213-216	37
1610	Characteristics of molybdenum trioxide nanobelts prepared by thermal evaporation technique. 2009 , 114, 687-691	107
1609	Co ₃ O ₄ coated Al composites as anode materials for lithium ion batteries. 2009 , 116, 383-387	15
1608	From layered hydroxide compounds to labyrinth-like NiO and Co ₃ O ₄ porous nanosheets. 2009 , 118, 243-248	19
1607	NickelCobalt oxides/carbon nanoflakes as anode materials for lithium-ion batteries. 2009 , 44, 140-145	27
1606	Preparation of Mn ₂ SnO ₄ nanoparticles as the anode material for lithium secondary battery. 2009 , 44, 393-397	33
1605	Fabrication and efficient photocatalytic degradation of methylene blue over CuO/BiVO ₄ composite under visible-light irradiation. 2009 , 44, 700-706	174
1604	A novel, simple, organic free preparation and characterization of water dispersible photoluminescent Cu ₂ O nanocubes. 2009 , 63, 400-402	34
1603	Reversible and High-Capacity Nanostructured Electrode Materials for Li-Ion Batteries. 2009 , 19, 1497-1514	433
1602	Gram-Scale Synthesis of Cu ₂ O Nanocubes and Subsequent Oxidation to CuO Hollow Nanostructures for Lithium-Ion Battery Anode Materials. 2009 , 21, 803-807	567
1601	Facile Synthesis and Shape Evolution of Single-Crystal Cuprous Oxide. 2009 , 21, 2068-2071	200
1600	Research on Advanced Materials for Li-ion Batteries. 2009 , 21, 4593-4607	1459

1599	Reversible Storage of Lithium in a Rambutan-Like Tin-Carbon Electrode. 2009 , 121, 1688-1691	27
1598	Porous Co ₃ O ₄ nanosheets with extraordinarily high discharge capacity for lithium batteries. 2009 , 15, 6169-74	166
1597	Clewlake ZnV ₂ O ₄ hollow spheres: nonaqueous sol-gel synthesis, formation mechanism, and lithium storage properties. 2009 , 15, 9442-50	114
1596	In-situ encapsulation of nickel particles in electrospun carbon nanofibers and the resultant electrochemical performance. 2009 , 15, 10718-22	75
1595	Polymer-Controlled Growth of CuO Nanodiscs in the Mild Aqueous Solution. 2009 , 27, 1086-1092	5
1594	Tin oxide thin film with three-dimensional ordered reticular morphology as a lithium ion battery anode. 2009 , 10, 3101-4	7
1593	Controlled synthesis of Cu ₂ O cubic and octahedral nano- and microcrystals. 2009 , 44, 624-628	40
1592	The Role of Nanostructure in Improving the Performance of Electrodes for Energy Storage and Conversion. 2009 , 2009, 3851-3878	128
1591	Cu ₂ O Nanocube-Catalyzed Cross-Coupling of Aryl Halides with Phenols via Ullmann Coupling. 2009 , 2009, 4219-4223	60
1590	Synthesis of Dendritic Nano-Sized Nickel for use as Anode Material in an Alkaline Membrane Fuel Cell. 2009 , 10, n/a-n/a	4
1589	Encapsulation of Sn@carbon Nanoparticles in Bamboo-like Hollow Carbon Nanofibers as an Anode Material in Lithium-Based Batteries. 2009 , 121, 6607-6611	38
1588	Reversible storage of lithium in a rambutan-like tin-carbon electrode. 2009 , 48, 1660-3	157
1587	Encapsulation of Sn@carbon nanoparticles in bamboo-like hollow carbon nanofibers as an anode material in lithium-based batteries. 2009 , 48, 6485-9	530
1586	Facile fabrication of porous NiO films for lithium-ion batteries with high reversibility and rate capability. 2009 , 13, 1591-1597	33
1585	Solvothermal synthesis and gas-sensing performance of Co ₃ O ₄ hollow nanospheres. 2009 , 136, 494-498	164
1584	First principles investigation on the stabilization mechanisms of the polar copper terminated Cu ₂ O(111) surface. 2009 , 603, 2087-2095	47
1583	Preparation and study on radar-absorbing materials of cupric oxide-nanowire-covered carbon fibers. 2009 , 255, 4916-4920	44
1582	Versatile synthesis of rectangular shaped nanobat-like CuO nanostructures by hydrothermal method; structural properties and growth mechanism. 2009 , 255, 6279-6284	135

1581	Controlled synthesis of cuprous oxide nanospheres and copper sulfide hollow nanospheres. 2009 , 70, 840-846	30
1580	On the use of transition metal oxysalts as conversion electrodes in lithium-ion batteries. 2009 , 189, 823-827	40
1579	Enhanced electrochemical properties of nanostructured bismuth-based composites for rechargeable lithium batteries. 2009 , 186, 206-210	98
1578	Improvement of cyclability of Si as anode for Li-ion batteries. 2009 , 192, 644-651	140
1577	Low temperature synthesis of flower-like ZnMn ₂ O ₄ superstructures with enhanced electrochemical lithium storage. 2009 , 194, 1089-1093	163
1576	Porous cobalt oxide (Co ₃ O ₄) nanorods: Facile syntheses, optical property and application in lithium-ion batteries. 2009 , 182, 3177-3182	94
1575	Electrochemical performance of Fe ₂ O ₃ nanorods as anode material for lithium-ion cells. 2009 , 54, 1733-1736	208
1574	Evaluation of ZnO nanorod arrays with dandelion-like morphology as negative electrodes for lithium-ion batteries. 2009 , 54, 2851-2855	214
1573	Improving electrochemical performance of NiO films by electrodeposition on foam nickel substrates. 2009 , 39, 1597-1602	43
1572	Synthesis, structural, and electrochemical performance of V ₂ O ₅ nanotubes as cathode material for lithium battery. 2009 , 39, 2001-2006	68
1571	Conversion reactions: a new pathway to realise energy in lithium-ion battery <i>Review</i> . 2009 , 15, 301-307	147
1570	TG-MS analysis on thermal decomposable components in the SEI film on Cr ₂ O ₃ powder anode in Li-ion batteries. 2009 , 15, 91-96	26
1569	Temperature driven morphological changes of hydrothermally prepared copper oxide nanoparticles. 2009 , 41, 259-263	22
1568	One-pot growth of Cu ₂ O concave octahedron microcrystal in alkaline solution. 2009 , 162, 82-86	14
1567	Physicochemical phase transformations in Co/CoO nanoparticles prepared by inert gas Condensation. 2009 , 164, 23-29	23
1566	Improved electrochemical performances of core-shell Cu ₂ O/Cu composite prepared by a simple one-step method. 2009 , 11, 262-265	88
1565	Electrospun nano-vanadium pentoxide cathode. 2009 , 11, 522-525	107
1564	High capacity and excellent cyclability of vanadium (IV) oxide in lithium battery applications. 2009 , 11, 538-541	41

1563	Hydrothermal synthesis of carbon nanotube/cobalt oxide core-shell one-dimensional nanocomposite and application as an anode material for lithium-ion batteries. 2009 , 11, 546-549	73
1562	Electrochemical investigation on nanoflower-like CuO/Ni composite film as anode for lithium ion batteries. 2009 , 54, 1160-1165	92
1561	Carbothermal synthesis, spectral and magnetic characterization and Li-cyclability of the Mo-cluster compounds, LiYMo ₃ O ₈ and Mn ₂ Mo ₃ O ₈ . 2009 , 54, 3360-3373	74
1560	XPS, time-of-flight-SIMS and polarization modulation IRRAS study of Cr ₂ O ₃ thin film materials as anode for lithium ion battery. 2009 , 54, 3700-3707	74
1559	The role of in situ generated nano-sized metal particles on the coulombic efficiency of MGeO ₃ (M = Cu, Fe, and Co) electrodes. 2009 , 54, 4371-4377	85
1558	One-step fabrication of CuO nanoribbons array electrode and its excellent lithium storage performance. 2009 , 54, 5825-5829	134
1557	A mechano- and electrochemically controlled SnSb/C nanocomposite for rechargeable Li-ion batteries. 2009 , 54, 6367-6373	89
1556	Bulk and surface properties of Cu ₂ O: A first-principles investigation. 2009 , 903, 41-48	60
1555	Electrochemical investigation on silicon/titanium carbide nanocomposite film anode for Li-ion batteries. 2009 , 517, 4767-4771	17
1554	Optical and photoconductivity studies of Cu ₂ O nanowires synthesized by solvothermal method. 2009 , 129, 1015-1022	42
1553	Low-temperature template-free synthesis of Cu ₂ O hollow spheres. 2009 , 311, 2285-2290	25
1552	Synthesis of cobalt nanoparticles from [bis(2-hydroxyacetophenato)cobalt(II)] by thermal decomposition. 2009 , 28, 1065-1068	47
1551	Reflux synthesis of Co ₃ O ₄ nanoparticles and its magnetic characterization. 2009 , 321, 2145-2149	94
1550	One-pot synthesis of single-crystalline Cu ₂ O hollow nanocubes. 2009 , 70, 719-722	36
1549	Microwave-assisted synthesis of flower-like and leaf-like CuO nanostructures via room-temperature ionic liquids. 2009 , 70, 1461-1464	61
1548	Electrochemical performance of NiP ₂ negative electrodes in all-solid-state lithium secondary batteries. 2009 , 189, 669-671	30
1547	Cobalt oxide thin film prepared by an electrochemical route for Li-ion battery. 2009 , 189, 204-210	23
1546	One-dimensional nanostructures as electrode materials for lithium-ion batteries with improved electrochemical performance. 2009 , 189, 543-546	47

1545	Some new facts on electrochemical reaction mechanism for transition metal oxide electrodes. 2009 , 189, 552-556	37
1544	Three-dimensional $\text{Li}_2\text{O}/\text{NiO}/\text{TiO}_2$ composite thin-film anode with network structure for lithium-ion batteries. 2009 , 189, 566-570	22
1543	Electrochemical behaviour of Heusler alloy Co_2MnSi for secondary lithium batteries. 2009 , 188, 281-285	6
1542	Morphology effect on the electrochemical performance of NiO films as anodes for lithium ion batteries. 2009 , 188, 588-591	125
1541	Electrochemical reactivity of ball-milled MoO_3 as anode materials for lithium-ion batteries. 2009 , 188, 286-291	114
1540	Surface reaction of $\beta\text{-FeOOH}$ film negative electrode for lithium-ion cells. 2009 , 191, 636-639	27
1539	Electrostatic spray deposition of porous Fe_2O_3 thin films as anode material with improved electrochemical performance for lithium-ion batteries. 2009 , 193, 846-850	74
1538	Mesoscale assembly of NiO nanosheets into spheres. 2009 , 182, 1206-1210	8
1537	Cobalt oxide hollow microspheres with micro- and nano-scale composite structure: Fabrication and electrochemical performance. 2009 , 182, 1055-1060	57
1536	Kinetics of nanoparticle synthesis by liquid-liquid interfacial reaction. 2009 , 343, 3-7	9
1535	Solution synthesis of $\text{Cu}_2\text{O}/\text{TiO}_2$ core-shell nanocomposites. 2009 , 349, 151-155	39
1534	A novel one-step electron beam irradiation method for synthesis of $\text{Ag}/\text{Cu}_2\text{O}$ nanocomposites. 2009 , 256, 889-893	41
1533	Synthesis of $\text{Co}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ nanorods and their thermal decomposition to Co_3O_4 nanoparticles. 2009 , 476, 78-83	62
1532	Goethite nanorods as anode electrode materials for rechargeable Li-ion batteries. 2009 , 11, 1696-1699	44
1531	Effect of calcination temperature on the morphology and electrochemical properties of Co_3O_4 for lithium-ion battery. 2009 , 54, 4180-4185	83
1530	Electrospun carbon nanofibers containing silicon particles as an energy-storage medium. 2009 , 47, 3219-3226	177
1529	Supported silver catalysts prepared by deposition in aqueous solution of Ag nanoparticles obtained through a photochemical approach. 2009 , 367, 138-145	26
1528	Co-sheathed SiO_x nanowires. 2009 , 255, 8425-8429	2

1527	Recent advances in rechargeable battery materials: a chemist's perspective. 2009 , 38, 2565-75	1068
1526	Synthesis of Co ₃ O ₄ nanoparticles by oxidation-reduction method and its magnetic characterization. 2009 , 7, 410-414	13
1525	Study of electrolytic cobalt sulfide Co ₉ S ₈ as an electrode material in lithium accumulator prototypes. 2009 , 45, 311-319	53
1524	Facile and large-scale route to the fabrication of CuO nanosheets from a lamellar mesophase and their reversible self-assembly. 2009 , 25, 6028-31	18
1523	Reversible lithium storage in LiF/Ti nanocomposites. 2009 , 11, 9497-503	55
1522	Fabrication of Architectures with Dual Hollow Structures: Arrays of Cu ₂ O Nanotubes Organized by Hollow Nanospheres. 2009 , 9, 4524-4528	34
1521	Topotactic Transformation of the Cationic Conductor Li ₄ Mo ₅ O ₁₇ into a Rock Salt Type Oxide Li ₁₂ Mo ₅ O ₁₇ . 2009 , 21, 3242-3250	20
1520	⁶ Li MAS NMR Investigation of Electrochemical Lithiation of RuO ₂ : Evidence for an Interfacial Storage Mechanism. 2009 , 21, 856-861	56
1519	Origin of Improved Electrochemical Activity of β -MnO ₂ Nanorods: Effect of the Mn Valence in the Precursor on the Crystal Structure and Electrode Activity of Manganates. 2009 , 113, 21274-21282	27
1518	Synthesis of Nanostructured Tungsten Oxide (WO _{2.9}) Fibers and Discs. 2009 , 9, 4680-4684	18
1517	Iron Oxyfluorides as High Capacity Cathode Materials for Lithium Batteries. 2009 , 156, A407	158
1516	Effect of Chemical Lithium Insertion into Rutile TiO ₂ Nanorods. 2009 , 113, 14567-14574	51
1515	Porous carbon nanofibers loaded with manganese oxide particles: Formation mechanism and electrochemical performance as energy-storage materials. 2009 , 19, 5593	105
1514	First Principles Study of the LiBi Phase Diagram and Bismuth Fluoride Conversion Reactions with Lithium. 2009 , 12, A125	19
1513	Electric field directed self-assembly of cuprous oxide nanostructures for photon sensing. 2009 , 3, 3935-44	81
1512	CVD of Copper Oxides from a β -Diketonate Diamine Precursor: Tailoring the Nano-Organization. 2009 , 9, 2470-2480	68
1511	A cobalt(II) hexafluoroacetylacetonate ethylenediamine complex as a CVD molecular source of cobalt oxide nanostructures. 2009 , 48, 82-9	38
1510	Controlled synthesis of Co ₃ O ₄ nanopolyhedrons and nanosheets at low temperature. 2009 , 7569-71	63

1509	P-Redox Mechanism at the Origin of the High Lithium Storage in NiP ₂ -Based Batteries. 2009 , 21, 298-308	66
1508	Mesoporous Anatase TiO ₂ with High Surface Area and Controllable Pore Size by F ⁻ Ion Doping: Applications for High-Power Li-Ion Battery Anode. 2009 , 113, 21258-21263	108
1507	Lithium intercalation into transition metal oxides: A route to generate new ordered rock salt type structure. 2009 , 37, 262-277	25
1506	The improved electrochemical performance of SnSb-based alloy anode materials for Li-ion batteries. 2009 , 472, 55-58	22
1505	Fabrication of CuO/C films with sisal-like hierarchical microstructures and its application in lithium ion batteries. 2009 , 476, 408-413	68
1504	Urchin-like CuO microspheres: Synthesis, characterization, and properties. 2009 , 481, 610-615	42
1503	Synthesis of sheaf-like CuO from aqueous solution and their application in lithium-ion batteries. 2009 , 484, 322-326	39
1502	One-pot facile synthesis of iron oxide nanowires as high capacity anode materials for lithium ion batteries. 2009 , 487, L24-L27	69
1501	Li Ion Migration at the Interfaces. 2009 , 34, 942-948	19
1500	Relationship between Electrode Performance and Chemical Bonding Nature in Mesoporous Metal Oxide-Layered Titanate Nanohybrids. 2009 , 113, 21941-21948	12
1499	Fabrication and electrochemical characterization of TiO ₂ three-dimensional nanonetwork based on peptide assembly. 2009 , 3, 1085-90	183
1498	Highly conductive paper for energy-storage devices. 2009 , 106, 21490-4	1048
1497	Carbon-Encapsulated Metal Oxide Hollow Nanoparticles and Metal Oxide Hollow Nanoparticles: A General Synthesis Strategy and Its Application to Lithium-Ion Batteries. 2009 , 21, 2935-2940	134
1496	Identifying the local structures formed during lithiation of the conversion material, iron fluoride, in a Li ion battery: a solid-state NMR, X-ray diffraction, and pair distribution function analysis study. 2009 , 131, 10525-36	235
1495	SnO ₂ Nanoparticles with Controlled Carbon Nanocoating as High-Capacity Anode Materials for Lithium-Ion Batteries. 2009 , 113, 20504-20508	215
1494	Carbon/ZnO Nanorod Array Electrode with Significantly Improved Lithium Storage Capability. 2009 , 113, 5336-5339	189
1493	First principles computational materials design for energy storage materials in lithium ion batteries. 2009 , 2, 589	387
1492	Synthesis of Fe ₂ O ₃ dendrites by a hydrothermal approach and their application in lithium-ion batteries. 2009 , 42, 015417	50

1491	57Fe Mössbauer Spectroscopy Study of the Electrochemical Reaction with Lithium of MFe ₂ O ₄ (M = Co and Cu) Electrodes. 2009 , 113, 20081-20087	41
1490	SnO ₂ -Based Hierarchical Nanomicrostructures: Facile Synthesis and Their Applications in Gas Sensors and Lithium-Ion Batteries. 2009 , 113, 14213-14219	171
1489	Carbon nanotube arrays and their composites for electrochemical capacitors and lithium-ion batteries. 2009 , 2, 932	224
1488	Novel Nanocomposite Materials for Advanced Li-Ion Rechargeable Batteries. 2009 , 2, 1205-1238	24
1487	Ordered mesoporous metallic MoO ₂ materials with highly reversible lithium storage capacity. 2009 , 9, 4215-20	590
1486	Direct growth of SnO ₂ nanorod array electrodes for lithium-ion batteries. 2009 , 19, 1859	263
1485	Crystal Faces of Cu ₂ O and Their Stabilities in Photocatalytic Reactions. 2009 , 113, 14448-14453	322
1484	Mesostructuring of Metal Oxides Through EISA: Fundamentals and Applications. 2009 , 413-439	2
1483	Sonochemical synthesis and photocatalysis of porous Cu ₂ O nanospheres with controllable structures. 2009 , 20, 045605	57
1482	Facile Synthesis of Copper Nanoparticles by Ionic Liquids and Its Application to Facilitated Olefin Transport Membranes. 2009 , 48, 7437-7441	35
1481	Crystalline-amorphous core-shell silicon nanowires for high capacity and high current battery electrodes. 2009 , 9, 491-5	1036
1480	Sn/graphene nanocomposite with 3D architecture for enhanced reversible lithium storage in lithium ion batteries. 2009 , 19, 8378	482
1479	Self-assembled 3D flower-like Ni ²⁺ -Fe ³⁺ layered double hydroxides and their calcined products. 2009 , 20, 475603	56
1478	Combination of lightweight elements and nanostructured materials for batteries. 2009 , 42, 713-23	418
1477	Hydrothermal Synthesis of Hierarchical Nanocolumns of Cobalt Hydroxide and Cobalt Oxide. 2009 , 113, 6566-6572	90
1476	Synthesis of Single-Crystalline Co ₃ O ₄ Octahedral Cages with Tunable Surface Aperture and Their Lithium Storage Properties. 2009 , 113, 15553-15558	133
1475	Investigation of the Conversion Reaction Mechanisms for Binary Copper(II) Compounds by Solid-State NMR Spectroscopy and X-ray Diffraction. 2009 , 21, 3162-3176	107
1474	Remarkable Capacity Retention of Nanostructured Manganese Oxide upon Cycling as an Electrode Material for Supercapacitor. 2009 , 113, 6303-6309	221

1473	Green energy storage materials: Nanostructured TiO ₂ and Sn-based anodes for lithium-ion batteries. 2009 , 2, 818	760
1472	One-Pot Synthesis of Carbon-Coated SnO ₂ Nanocolloids with Improved Reversible Lithium Storage Properties. 2009 , 21, 2868-2874	406
1471	Highly porous reticular tin/cobalt oxide composite thin film anodes for lithium ion batteries. 2009 , 19, 8360	83
1470	Layered vanadium and molybdenum oxides: batteries and electrochromics. 2009 , 19, 2526	688
1469	In-situ formation of sandwiched structures of nanotube/Cu _x O _y /Cu composites for lithium battery applications. 2009 , 3, 2177-84	76
1468	Ab initio thermodynamics of lithium oxides: from bulk phases to nanoparticles. 2009 , 20, 445703	68
1467	Materials for High-energy Density Batteries. 2009 , 365-385	
1466	Energy Harvesting Technologies. 2009 ,	678
1465	High-Yield Gas/Liquid Interfacial Synthesis of Highly Dispersed Fe ₃ O ₄ Nanocrystals and Their Application in Lithium-Ion Batteries. 2009 , 21, 1162-1166	244
1464	One-pot formation of SnO ₂ hollow nanospheres and alpha-Fe ₂ O ₃ @SnO ₂ nanorattles with large void space and their lithium storage properties. 2009 , 1, 280-5	189
1463	Solvo-hydrothermal approach for the shape-selective synthesis of vanadium oxide nanocrystals and their characterization. 2009 , 25, 5322-32	71
1462	An electrochemical study of lithium insertion into Cr(5-y)Ti(y)Se(8) (y = 1, 2, 3, 4, 4.5) beyond the intercalation limit. 2009 , 11, 3250-6	4
1461	High rate capabilities induced by multi-phasic nanodomains in iron-substituted calcium cobaltite electrodes. 2009 , 19, 1829	17
1460	Selective heterogeneous oriented attachment of manganese oxide nanorods in water: toward 3D nanoarchitectures. 2009 , 19, 7947	28
1459	Nano-(Cd ^{1/3} Co ^{1/3} Zn ^{1/3})CO ₃ : a new and high capacity anode material for Li-ion batteries. 2009 , 19, 5047	51
1458	Facile synthesis and shape evolution of highly symmetric 26-facet polyhedral microcrystals of Cu ₂ O. 2009 , 11, 2291	50
1457	Spontaneous self-assembly of Cu ₂ O@PPy nanowires and anisotropic crystals. 2009 , 5913-5	15
1456	Elucidation of Capacity Fading on CoFe[₂ O] ₄ Conversion Electrodes for Lithium Batteries Based on [⁵⁷ Fe Mo ssbauer Spectroscopy. 2009 , 156, A589	24

1455	Foam-like, microstructural SnO ₂ -carbon composite thin films synthesized via a polyol-assisted thermal decomposition method. 2009 , 723-9	2
1454	Hollow Fe-containing carbon fibers with tubular tertiary structure: preparation and Li-storage properties. 2009 , 19, 1616	27
1453	Colloidal polymerization of polymer-coated ferromagnetic nanoparticles into cobalt oxide nanowires. 2009 , 3, 3143-57	152
1452	Oxidation-induced constituent separation of magnetic exchange biased Fe/CoO nanocrystals. 2009 , 6255-7	5
1451	SYNTHESIS OF COBALT AND COBALT OXIDE NANOPARTICLES AND THEIR MAGNETIC PROPERTIES. 2009 , 08, 273-276	2
1450	Carbon nanotube reinforced NiO fibers for rechargeable lithium batteries. 2009 , 11, 982-987	49
1449	Multifunctional nanomaterials. 2009 , 78, 249-282	18
1448	Coaxial MnO ₂ /carbon nanotube array electrodes for high-performance lithium batteries. 2009 , 9, 1002-6	869
1447	Defect Chemistry and Catalytic Activity of Nanosized Co ₃ O ₄ . 2009 , 21, 1939-1947	111
1446	Synthesis and electrochemical performance of Co ₃ O ₄ /C composite anode for lithium ion batteries. 2009 , 19, 372-376	13
1445	General Layer-By-Layer Approach To Composite Nanotubes and Their Enhanced Lithium-Storage and Gas-Sensing Properties. 2009 , 21, 5264-5271	34
1444	SECONDARY BATTERIES [LITHIUM RECHARGEABLE SYSTEMS [LITHIUM-ION Positive Electrode: Nanostructured Transition Metal Oxides. 2009 , 337-355	1
1443	Access to M ^[sup 3+] /M ^[sup 2+] Redox Couples in Layered LiMS _[sub 2] Sulfides (M=Ti, V, Cr) as Anodes for Li-Ion Battery. 2009 , 156, A703	40
1442	Hybrid tin oxide nanowires as stable and high capacity anodes for Li-ion batteries. 2009 , 9, 612-6	328
1441	ZnO particles of wurtzite structure as a component in ZnO/carbon nanotube composite. 2009 , 21, 445801	10
1440	Developments of the Advanced All-Solid-State Polymer Electrolyte Lithium Secondary Battery. 2009 , 77, 784-797	15
1439	Inorganic Nanobelt Materials. 2009 ,	1
1438	Seed-mediated Preparation of CuO Nanoflowers and their Application as Hydrazine Sensor. 2009 , 38, 466-467	9

1437	Nanomaterials in Energy Storage Systems. 2009 , 519-535	2
1436	HOTPLATE TECHNIQUE FOR NANOMATERIALS. 2009 , 149-169	1
1435	Highly Ordered Cubic Mesoporous Cobalt Oxide by an Accurately Controlled Incipient Wetness Technique. 2010 , 85-91	2
1434	Anode Properties of Cu-Coated Si Thick Film Electrodes Prepared by Electroless Deposition and Gas-Deposition. 2010 , 78, 329-331	20
1433	Electrochemical Properties of Iron Oxides as High-Capacity Negative Electrodes for Lithium Secondary Batteries. 2010 , 78, 339-341	4
1432	FRONT MATTER. 2010 , i-xxvii	
1431	Nanostructured materials for advanced energy conversion and storage devices. 2010 , 148-159	51
1430	Pollution Prevention and Treatment Using Nanotechnology. 2010 , 1	9
1429	Nanoionics: ion transport and electrochemical storage in confined systems. 2010 , 160-170	8
1428	Fabrication of 3D Co ₃ O ₄ Nanoarchitectures via a Novel Template-assisted Coprecipitation Process. 2010 , 39, 944-945	1
1427	On the nature of decrease in the particles size of nanostructured nickel oxide obtained by the sol-gel method in the presence of surfactants. 2010 , 80, 1115-1121	
1426	Adsorption, catalysis, and reactions on the surfaces of metal nano-oxides. 2010 , 2, 1-10	12
1425	Lithium storage in a metal organic framework with diamondoid topology: a case study on metal formates. 2010 , 20, 8329	168
1424	Li electroactivity of iron (II) tungstate nanorods. 2010 , 21, 465602	27
1423	Li-alloy based anode materials for Li secondary batteries. 2010 , 39, 3115-41	1308
1422	Cobalt Oxide Nanomaterials by Vapor-Phase Synthesis for Fast and Reversible Lithium Storage. 2010 , 114, 10054-10060	54
1421	Carbon nanotubes for photoconversion and electrical energy storage. 2010 , 110, 6856-72	244
1420	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis 2010 , 22, 724-739	209

1419	Structure and electrochemical performance of nanostructured Fe ₃ O ₄ /carbon nanotube composites as anodes for lithium ion batteries. 2010 , 55, 1140-1144	309
1418	Pulsed laser deposited heterogeneous mixture of Li ₂ SeSb ₂ Se ₃ nanocomposite as a new storage lithium material. 2010 , 55, 1258-1264	21
1417	Fabrication of three-dimensional porous structured Co ₃ O ₄ and its application in lithium-ion batteries. 2010 , 55, 6420-6425	50
1416	Submicron-sized cube-like γ -Fe ₂ O ₃ agglomerates as an anode material for Li-ion batteries. 2010 , 55, 8521-8526	41
1415	Porous NiO/poly(3,4-ethylenedioxythiophene) films as anode materials for lithium ion batteries. 2010 , 195, 1207-1210	53
1414	In situ polyol-assisted synthesis of nano-SnO ₂ /carbon composite materials as anodes for lithium-ion batteries. 2010 , 195, 2355-2361	48
1413	Lithium batteries: Status, prospects and future. 2010 , 195, 2419-2430	3678
1412	Effects of synthesis temperature and precursor composition on the crystal structure, morphology, and electrode activity of 1D nanostructured manganese oxides. 2010 , 195, 6101-6107	7
1411	Influence of alkali ion doping on the electrochemical performances of tin-based composite materials. 2010 , 195, 3316-3322	8
1410	Lithium silicon sulfide as an anode material in all-solid-state lithium batteries. 2010 , 195, 3323-3327	17
1409	Mesoporous carbon-encapsulated NiO nanocomposite negative electrode materials for high-rate Li-ion battery. 2010 , 195, 4977-4983	108
1408	Fabrication and lithium storage performance of three-dimensional porous NiO as anode for lithium-ion battery. 2010 , 195, 7432-7437	145
1407	Kirkendall-effect-based growth of dendrite-shaped CuO hollow micro/nanostructures for lithium-ion battery anodes. 2010 , 183, 662-667	66
1406	Single-crystal micro/nanostructures and thin films of lamellar molybdenum oxide by solid-state pyrolysis of organometallic derivatives of a cyclotriphosphazene. 2010 , 183, 1595-1603	31
1405	Hydrothermal synthesis and electrochemical performance of NiO microspheres with different nanoscale building blocks. 2010 , 183, 2576-2581	36
1404	Effect of fullerene coating on silicon thin film anodes for lithium rechargeable batteries. 2010 , 14, 51-56	37
1403	Preparation of polyaniline/nanodioxide composites and their application in methanol electro-oxidation. 2010 , 14, 169-174	30
1402	Growth of V ₂ O ₅ nanorods from ball-milled powders and their performance in cathodes and anodes of lithium-ion batteries. 2010 , 14, 1841-1846	35

1401	Synthesis, characterization, and electrochemical properties of self-assembled leaf-like CuO nanostructures. 2010 , 14, 1719-1726	73
1400	SnO ₂ /graphene composite with high lithium storage capability for lithium rechargeable batteries. 2010 , 3, 813-821	171
1399	A facile method to improve the high rate capability of Co ₃ O ₄ nanowire array electrodes. 2010 , 3, 895-901	153
1398	Preparation and electrochemical properties of urchin-like Fe ₂ O ₃ nanomaterials. 2010 , 53, 1897-1903	24
1397	Synthesis, structure, and electrochemical properties of CdMoO ₄ nanorods. 2010 , 16, 57-60	28
1396	Preparation and electrochemical properties of Co ₃ O ₄ /graphite composites as anodes of lithium ion batteries. 2010 , 17, 498-503	5
1395	Synthesis and Characterization of Cobalt-Doped WS ₂ Nanorods for Lithium Battery Applications. 2010 , 5, 1301-6	29
1394	Mesoporous cobalt oxide film prepared by electrodeposition as anode material for Li ion batteries. 2010 , 17, 583-588	14
1393	LiVOPO ₄ as an anode material for lithium ion batteries. 2010 , 40, 209-213	28
1392	Electrochemical impedance spectroscopic characterization on nano-sized Ca ₃ Co ₃ FeO ₉ electrode with enhanced capacity retention. 2010 , 40, 109-114	8
1391	High temperature lithium cells using conversion oxide electrodes. 2010 , 40, 1365-1370	18
1390	Nanocrystalline NiO hollow spheres in conjunction with CMC for lithium-ion batteries. 2010 , 40, 1415-1419	27
1389	Facile synthesis and characterization of polypyrrole/Co ₃ O ₄ nanocomposites with adjustable intrinsic electroconductivity. 2010 , 21, 410-415	11
1388	Preparation, electrocatalytic and photocatalytic performances of nanoscaled CuO/Co ₃ O ₄ composite oxides. 2010 , 21, 1262-1269	8
1387	Morphological control of Ni/NiO core/shell nanoparticles and production of hollow NiO nanostructures. 2010 , 12, 2883-2893	27
1386	Synthesis, characterisation and stability of Cu ₂ O nanoparticles produced via reverse micelles microemulsion. 2010 , 122, 602-608	28
1385	HCl-assisted pyrolysis of PdCl ₂ to immobilize palladium nanoparticles on multi-walled carbon nanotubes. 2010 , 123, 498-501	3
1384	NiMn ₂ Fe _x O ₄ prepared by a reverse micelles method as conversion anode materials for Li-ion batteries. 2010 , 124, 102-108	23

1383	High capacity and good cycling stability of multi-walled carbon nanotube/SnO ₂ core-shell structures as anode materials of lithium-ion batteries. 2010 , 45, 437-441	27
1382	Surfactant-free synthesis and electrochemical properties of chrysanthemum-like InVO ₄ hierarchical microstructures. 2010 , 45, 1903-1908	6
1381	Solvothermal synthesis of NiO/C hybrid microspheres as Li-intercalation electrode material. 2010 , 64, 1022-1024	19
1380	Facile synthesis and electrochemical properties of porous SnO ₂ micro-tubes as anode material for lithium-ion battery. 2010 , 64, 921-923	39
1379	Controlled reduction of Cu ²⁺ to Cu ⁺ with an N,O-type chelate under hydrothermal conditions to produce Cu ₂ O nanoparticles. 2010 , 64, 1049-1051	12
1378	Preparation of nano-sized LiCoO ₂ powder by the combination of sonication and modified Pechini process. 2010 , 12, 45-49	8
1377	A novel anode material of antimony nitride for rechargeable lithium batteries. 2010 , 12, 397-403	35
1376	Preparation and photocatalytic activity of cuprous oxides. 2010 , 12, 1215-1219	75
1375	Microstructure control of MnO ₂ /CNT hybrids under in-situ hydrothermal conditions. 2010 , 12, 1677-1682	31
1374	Fe ₃ O ₄ dendrites reduced by carbon-coatings as high reversible capacity anodes for lithium ion batteries. 2010 , 12, 2024-2029	20
1373	Effects of Ni substitution on the properties of Co ₃ O ₄ /graphite composites as anode of lithium ion batteries. 2010 , 51, 247-252	9
1372	Pseudocapacitive Properties of Nano-structured Anhydrous Ruthenium Oxide Thin Film Prepared by Electrostatic Spray Deposition and Electrochemical Lithiation/Delithiation. 2010 , 10, 865-872	11
1371	Studies of nano-sized Co ₃ O ₄ as anode materials for lithium-ion batteries. 2010 , 21, 1275-1279	12
1370	Conformal surface coatings to enable high volume expansion Li-ion anode materials. 2010 , 11, 2124-30	115
1369	A carbon/titanium vanadium nitride composite for lithium storage. 2010 , 11, 3219-23	43
1368	Malic acid assisted precursor route to hierarchical structured nickel oxide. 2010 , 45, 545-550	5
1367	Fabrication of cobalt and cobalt oxide/graphene composites: towards high-performance anode materials for lithium ion batteries. 2010 , 3, 236-9	276
1366	Nanostructured carbon and carbon nanocomposites for electrochemical energy storage applications. 2010 , 3, 136-68	563

1365	Carbonate-Assisted Hydrothermal Synthesis of Nanoporous CuO Microstructures and Their Application in Catalysis. 2010 , 2010, 729-734	35
1364	Topotactic Conversion Route to Mesoporous Quasi-Single-Crystalline Co ₃ O ₄ Nanobelts with Optimizable Electrochemical Performance. 2010 , 20, 617-623	191
1363	Synthesis and Lithium Storage Properties of Co ₃ O ₄ Nanosheet-Assembled Multishelled Hollow Spheres. 2010 , 20, 1680-1686	615
1362	Quasi-intercalation and facile amorphization in layered ZnSb for Li-ion batteries. 2010 , 22, 47-52	90
1361	Nanostructured Fe ₃ O ₄ /SWNT electrode: Binder-free and high-rate li-ion anode. 2010 , 22, E145-9	527
1360	Photo-rechargeable battery effect in first generation cationic-cyanine dendrimers. 2010 , 22, 3954-8	20
1359	Beyond intercalation-based Li-ion batteries: the state of the art and challenges of electrode materials reacting through conversion reactions. 2010 , 22, E170-92	1859
1358	Self-wound composite nanomembranes as electrode materials for lithium ion batteries. 2010 , 22, 4591-5	92
1357	Nanoarchitected 3D cathodes for Li-ion microbatteries. 2010 , 22, 4978-81	137
1356	Fabrication of Fe ₃ O ₄ Nanoflowers on CNT branches and their application to high power lithium rechargeable batteries. 2010 , 22, 5260-4	242
1355	Metal Oxide Nanoparticles. 2010 , 1-76	2
1354	Synthesis of cobalt ion-based coordination polymer nanowires and their conversion into porous Co ₃ O ₄ nanowires with good lithium storage properties. 2010 , 16, 5215-21	125
1353	Amino acid based low-molecular-weight ionogels as efficient dye-adsorbing agents and templates for the synthesis of TiO ₂ nanoparticles. 2010 , 16, 1493-505	74
1352	Highly ordered mesoporous cobalt oxide nanostructures: synthesis, characterisation, magnetic properties, and applications for electrochemical energy devices. 2010 , 16, 11020-7	126
1351	Synthesis of Cu ₂ O Nanoframes and Nanocages by Selective Oxidative Etching at Room Temperature. 2010 , 122, 4378-4381	36
1350	Fabrication of Graphene-Encapsulated Oxide Nanoparticles: Towards High-Performance Anode Materials for Lithium Storage. 2010 , 122, 8586-8589	95
1349	Synthesis of Cu ₂ O nanoframes and nanocages by selective oxidative etching at room temperature. 2010 , 49, 4282-5	209
1348	Fabrication of graphene-encapsulated oxide nanoparticles: towards high-performance anode materials for lithium storage. 2010 , 49, 8408-11	948

1347	Room temperature preparation of cuprous oxide hollow microspheres by a facile wet-chemical approach. 2010 , 256, 7335-7338	17
1346	Ultralong Cu(OH) ₂ and CuO nanowire bundles: PEG200-directed crystal growth for enhanced photocatalytic performance. 2010 , 348, 303-12	98
1345	Synthesis of cuprous oxide using sodium borohydride under microwave irradiation and catalytic effects. 2010 , 16, 564-566	16
1344	Densification of nanocrystalline NiO ceramics by spark plasma sintering. 2010 , 527, 462-468	17
1343	Self-assembled synthesis of hierarchical nanostructured CuO with various morphologies and their application as anodes for lithium ion batteries. 2010 , 195, 313-319	284
1342	Optimization of MoO ₃ nanoparticles as negative-electrode material in high-energy lithium ion batteries. 2010 , 195, 588-592	126
1341	Converting cobalt oxide subunits in cobalt metal-organic framework into agglomerated Co ₃ O ₄ nanoparticles as an electrode material for lithium ion battery. 2010 , 195, 857-861	204
1340	Carbon anode for dry-polymer electrolyte lithium batteries. 2010 , 195, 6172-6176	15
1339	MnO powder as anode active materials for lithium ion batteries. 2010 , 195, 3300-3308	322
1338	Electrochemical characteristics of lithium vanadate, Li _{1+x} VO ₂ , new anode materials for lithium ion batteries. 2010 , 195, 6157-6161	58
1337	Improvement of electrochemical behavior of Sn ₂ Fe/C nanocomposite anode with Al ₂ O ₃ addition for lithium-ion batteries. 2010 , 195, 5044-5048	20
1336	Fe ₃ O ₄ submicron spheroids as anode materials for lithium-ion batteries with stable and high electrochemical performance. 2010 , 195, 5379-5381	156
1335	Size effect investigation on battery performance: Comparison between micro- and nano-particles of Ni(OH) ₂ as nickel battery cathode material. 2010 , 195, 5794-5800	118
1334	Electrochemical lithium storage of TiO ₂ hollow microspheres assembled by nanotubes. 2010 , 195, 6893-6896	40
1333	Characterizing capacity loss of lithium oxygen batteries by impedance spectroscopy. 2010 , 195, 6817-6824	133
1332	Metal current collector-free freestanding silicon/carbon 1D nanocomposites for ultralight anodes in lithium ion batteries. 2010 , 195, 8311-8316	56
1331	Synthesis of morphology-controllable mesoporous Co ₃ O ₄ and CeO ₂ . 2010 , 183, 277-284	25
1330	A Facile synthesis of flower-like Co ₃ O ₄ porous spheres for the lithium-ion battery electrode. 2010 , 183, 600-605	74

1329	Synthesis and characterization of (single- and poly-) crystalline NiO nanorods by a simple chemical route. 2010 , 42, 2225-2230	30
1328	Facile preparation of porous one-dimensional Mn ₂ O ₃ nanostructures and their application as anode materials for lithium-ion batteries. 2010 , 43, 70-75	39
1327	Stability and electronic properties of the O-terminated Cu ₂ O(111) surfaces: First-principles investigation. 2010 , 374, 2994-2998	34
1326	Biologically formed hollow cuprous oxide microspheres. 2010 , 30, 758-762	21
1325	Uniform hematite nanocapsules based on an anode material for lithium ion batteries. 2010 , 12, 382-385	115
1324	An understanding of anomalous capacity of nano-sized CoO anode materials for advanced Li-ion battery. 2010 , 12, 496-498	64
1323	Hierarchically ordered porous nickel oxide array film with enhanced electrochemical properties for lithium ion batteries. 2010 , 12, 890-893	91
1322	Direct evidence of morphological changes in conversion type electrodes in Li-ion battery by acoustic emission. 2010 , 12, 1336-1339	40
1321	Sacrificial salts: Compensating the initial charge irreversibility in lithium batteries. 2010 , 12, 1344-1347	89
1320	Electrode reactions of manganese oxides for secondary lithium batteries. 2010 , 12, 1520-1523	229
1319	Improvement of electrochemical performance of tin dioxide negative electrode materials upon cobalt substitution. 2010 , 55, 2841-2847	8
1318	Electrodeposition of iron oxide nanorods on carbon nanofiber scaffolds as an anode material for lithium-ion batteries. 2010 , 55, 3240-3244	64
1317	Hematite nanoflakes as anode electrode materials for rechargeable lithium-ion batteries. 2010 , 55, 3089-3092	49
1316	Carbon nanotube array anodes for high-rate Li-ion batteries. 2010 , 55, 2873-2877	43
1315	High capacity three-dimensional ordered macroporous CoFe ₂ O ₄ as anode material for lithium ion batteries. 2010 , 55, 4594-4598	170
1314	Enhanced high rate properties of ordered porous Cu ₂ O film as anode for lithium ion batteries. 2010 , 55, 4921-4925	75
1313	Solvent-assisted molten salt process: A new route to synthesise Fe ₂ O ₃ /C nanocomposite and its electrochemical performance in lithium-ion batteries. 2010 , 55, 5006-5013	99
1312	Pulsed laser deposited FeOF as negative electrodes for rechargeable Li batteries. 2010 , 56, 767-775	19

1311	Characterization of ordered Cu ₂ O nanowire arrays prepared by heat treated Cu/PAM composite. 2010 , 519, 1687-1692	4
1310	Surface reconstruction modes of Cu ₂ O(001) surface: A first principles study. 2010 , 604, 1516-1523	18
1309	Synthesis, characterization and thermal degradation of 1-D coordination polymers of the type Cu _x Zn _{1-x} (dadb) _y H ₂ O (dadb=2,5-diamino-3,6-dichloro-1,4-benzoquinone; and x=1.0, 0.5, 0.0625 and 0). 2010 , 511, 17-26	4
1308	Ionic liquid-assisted hydrothermal synthesis of three-dimensional hierarchical CuO peachstone-like architectures. 2010 , 256, 1871-1877	41
1307	Shape-controlled synthesis of Cu ₂ O microcrystals by electrochemical method. 2010 , 256, 2269-2275	27
1306	Structure and growth mechanism of CuO plates obtained by microwave-hydrothermal without surfactants. 2010 , 21, 197-202	97
1305	Mono-dispersed flower-like Cu-coated poly(vinylamine) hollow particles prepared by an electroless plating method. 2010 , 363, 105-109	3
1304	Vanadium oxide aerogels: Nanostructured materials for enhanced energy storage. 2010 , 13, 130-141	37
1303	Macroporous Co ₃ O ₄ platelets with excellent rate capability as anodes for lithium ion batteries. 2010 , 12, 101-105	136
1302	A Co(OH) ₂ /graphene nanosheets composite as a high performance anode material for rechargeable lithium batteries. 2010 , 12, 570-573	129
1301	Lithium storage in hollow spherical ZnFe ₂ O ₄ as anode materials for lithium ion batteries. 2010 , 12, 847-850	197
1300	Incorporation of MWCNTs into leaf-like CuO nanoplates for superior reversible Li-ion storage. 2010 , 12, 1103-1107	87
1299	Binder-free porous core-shell structured Ni/NiO configuration for application of high performance lithium ion batteries. 2010 , 12, 1222-1225	151
1298	Simple synthesis of surface-modified hierarchical copper oxide spheres with needle-like morphology as anode for lithium ion batteries. 2010 , 55, 1820-1824	86
1297	Nanoflakes of the cobaltous oxide, CoO: Synthesis and characterization. 2010 , 55, 2139-2148	71
1296	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. 2010 , 55, 3324-3329	30
1295	Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries. 2010 , 55, 3909-3914	894
1294	Porous Co ₃ O ₄ nanoplatelets by self-supported formation as electrode material for lithium-ion batteries. 2010 , 55, 4805-4811	52

1293	Three-dimensional reticular tin/manganese oxide composite anode materials for lithium ion batteries. 2010 , 55, 4982-4986	24
1292	Flower-like ZnO/NiO films with high reversible capacity and rate capability for lithium-ion batteries. 2010 , 55, 5780-5785	98
1291	Hollow microspheres of NiO as anode materials for lithium-ion batteries. 2010 , 55, 8981-8985	155
1290	Sn-based nanomaterials converted from SnS nanobelts: Facile synthesis, characterizations, optical properties and energy storage performances. 2010 , 56, 243-250	82
1289	Enhanced cycling performance of Fe ₃ O ₄ /graphene nanocomposite as an anode material for lithium-ion batteries. 2010 , 56, 834-840	367
1288	Construction of cuprous oxide electrodes composed of 2D single-crystalline dendritic nanosheets. 2010 , 6, 2183-90	16
1287	Morphology-controlled synthesis of SnO(2) nanotubes by using 1D silica mesostructures as sacrificial templates and their applications in lithium-ion batteries. 2010 , 6, 296-306	328
1286	A 3.6 V lithium-based fluorosulphate insertion positive electrode for lithium-ion batteries. 2010 , 9, 68-74	491
1285	High-performance lithium-ion anodes using a hierarchical bottom-up approach. 2010 , 9, 353-8	1707
1284	Dispersed nanoelectrode devices. 2010 , 5, 54-60	97
1283	High-power lithium batteries from functionalized carbon-nanotube electrodes. 2010 , 5, 531-7	946
1282	Preparation of Porous Li ₂ O and Transition Metal Oxides Composite Thin Films for Lithium-Ion Batteries Application. 2010 ,	
1281	Hierarchical Bottom-Up Approach for High-Performance Si-Based Li-Ion Battery Anodes. 2010 ,	
1280	Fabrication of tin-carbon composite anode material by electrospinning and electrostatic spray deposition for lithium rechargeable battery. 2010 ,	
1279	Local and CMOS-compatible synthesis of CuO nanowires on a suspended microheater on a silicon substrate. 2010 , 21, 235602	44
1278	Nanocomposite Cr ₂ O ₃ /HP as a Storage Lithium Material. 2010 , 157, A957	4
1277	Reaction Behavior between Li and NiO Thin Film by EIS. 2010 , 150-151, 1603-1606	
1276	Nanocrystalline NiO Thin Film Prepared by Sol-Gel Process. 2010 , 150-151, 1073-1076	

1275	Enhancing Lithium Storage Capacity of ZnO Anodes Through Ni ₃ ZnC _{0.7} Incorporation. 2010 , 157, A55	29
1274	Designated-Tailoring on {100} Facets of Cu ₂ O Nanostructures: From Octahedral to Its Different Truncated Forms. 2010 , 2010, 1-11	3
1273	Exchange bias in single-crystalline CuO nanowires. 2010 , 96, 193105	47
1272	Growth Mechanism of the Copper Oxide Nanowires from Copper Thin Films Deposited on CuO-Buffered Silicon Substrate. 2010 , 157, K119	32
1271	Giant Peltier Effect in a Submicron-Sized Cu ₃ Ni/Au Junction with Nanometer-Scale Phase Separation. 2010 , 3, 065204	22
1270	Thermodynamics of protein folding: a random matrix formulation. 2010 , 22, 415106	
1269	High-speed 3D surface profilometry employing trapezoidal phase-shifting method with multi-band calibration for colour surface reconstruction. 2010 , 21, 105309	13
1268	Preparation and Characterization of NiO Nanoparticles by Chemical Precipitation Method. 2010 , 40, 700-703	9
1267	High-performance lithium battery anodes using silicon nanowires. 2010 , 187-191	5
1266	Electrochemical Behavior of the Amorphous Tin-Cobalt Anode. 2010 , 13, A184	37
1265	The Role of Metallic Fe and Carbon Matrix in Fe ₂ O ₃ /Fe/Carbon Nanocomposite for Lithium-Ion Batteries. 2010 , 157, A412	72
1264	Lithium Storage Using Conversion Reaction in Maghemite and Hematite. 2010 , 13, A132	28
1263	Issues and challenges facing rechargeable lithium batteries. 2010 , 171-179	187
1262	Nanostructured electrode materials for Li-ion battery. 2010 ,	
1261	Key challenges in future Li-battery research. 2010 , 368, 3227-41	604
1260	Template-Free Synthesis of Well-Defined Truncated Edge Polyhedral Cu ₂ O Architectures. 2010 , 10, 541-547	72
1259	Shape-controlled synthesis of cobalt-based nanocubes, nanodiscs, and nanoflowers and their comparative lithium-storage properties. 2010 , 2, 3628-35	166
1258	Fabrication of ordered NiO coated Si nanowire array films as electrodes for a high performance lithium ion battery. 2010 , 2, 3614-8	52

1257	Thermal oxidation of polycrystalline tungsten nanowire. 2010 , 108, 094312	8
1256	Nanostructured Co ₃ O ₄ Materials: Synthesis, Characterization, and Electrochemical Behaviors as Anode Reactants in Rechargeable Lithium Ion Batteries. 2010 , 114, 12805-12817	95
1255	Synthesis of Mesoporous γ -Fe ₂ O ₃ Nanostructures for Highly Sensitive Gas Sensors and High Capacity Anode Materials in Lithium Ion Batteries. 2010 , 114, 18753-18761	287
1254	Stepwise nanopore evolution in one-dimensional nanostructures. 2010 , 10, 1409-13	218
1253	Facile Synthesis, Shape Evolution, and Photocatalytic Activity of Truncated Cuprous Oxide Octahedron Microcrystals with Hollows. 2010 , 10, 2064-2067	50
1252	Reversible Three-Electron Redox Behaviors of FeF ₃ Nanocrystals as High-Capacity Cathode-Active Materials for Li-Ion Batteries. 2010 , 114, 3190-3195	114
1251	Synthesis of CuO/graphene nanocomposite as a high-performance anode material for lithium-ion batteries. 2010 , 20, 10661	346
1250	Controlled synthesis of single-crystalline alpha-Fe ₂ O ₃ micro/nanoparticles from the complex precursor of FeCl ₃ and methyl orange. 2010 , 21, 355602	9
1249	Ternary self-assembly of ordered metal oxide-graphene nanocomposites for electrochemical energy storage. 2010 , 4, 1587-95	731
1248	Synthesis, characterization and lithium-storage performance of MoO ₂ /carbon hybrid nanowires. 2010 , 20, 2807	129
1247	Electrochemically Driven Phase Transitions in Insertion Electrodes for Lithium-Ion Batteries: Examples in Lithium Metal Phosphate Olivines. 2010 , 40, 501-529	136
1246	Deformations in Si-Li anodes upon electrochemical alloying in nano-confined space. 2010 , 132, 8548-9	286
1245	Modified Kirkendall effect for fabrication of magnetic nanotubes. 2010 , 46, 1899-901	36
1244	A ferrocene-based carbon/iron lithium fluoride nanocomposite as a stable electrode material in lithium batteries. 2010 , 20, 1871	79
1243	Low Temperature Synthesis of Cu ₂ O Crystals: Shape Evolution and Growth Mechanism. 2010 , 10, 99-108	258
1242	Symbiotic Coaxial Nanocables: Facile Synthesis and an Efficient and Elegant Morphological Solution to the Lithium Storage Problem. 2010 , 22, 1908-1914	185
1241	Ultrasmall titania nanocrystals and their direct assembly into mesoporous structures showing fast lithium insertion. 2010 , 132, 12605-11	111
1240	Direct Synthesis of CoO Porous Nanowire Arrays on Ti Substrate and Their Application as Lithium-Ion Battery Electrodes. 2010 , 114, 929-932	162

1239	Magnetite/graphene composites: microwave irradiation synthesis and enhanced cycling and rate performances for lithium ion batteries. 2010 , 20, 5538	270
1238	Shape Effects of Cu ₂ O Polyhedral Microcrystals on Photocatalytic Activity. 2010 , 114, 5073-5079	330
1237	Boron esters as tunable anion carriers for non-aqueous batteries electrochemistry. 2010 , 132, 3055-62	59
1236	General Synthesis of Large-Scale Arrays of One-Dimensional Nanostructured Co ₃ O ₄ Directly on Heterogeneous Substrates. 2010 , 10, 70-75	188
1235	Nano active materials for lithium-ion batteries. 2010 , 2, 1294-305	443
1234	Engineering nanostructured electrodes and fabrication of film electrodes for efficient lithium ion intercalation. 2010 , 3, 1218	220
1233	Facile scalable synthesis of magnetite nanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries. 2010 , 46, 118-20	184
1232	Unique phase transformation behavior and visible light photocatalytic activity of titanium oxide hybridized with copper oxide. 2010 , 20, 3238	36
1231	Growth of the copper oxide nanowires from copper thin films deposited on silicon substrate. 2010 ,	
1230	Large-Scale Porous Hematite Nanorod Arrays: Direct Growth on Titanium Foil and Reversible Lithium Storage. 2010 , 114, 21158-21164	94
1229	On Water: A Practical and Efficient Synthesis of Benzoheterocycle Derivatives Catalyzed by Nanocrystalline Copper(II) Oxide. 2010 , 40, 607-614	15
1228	General synthesis of carbon-coated nanostructure Li ₄ Ti ₅ O ₁₂ as a high rate electrode material for Li-ion intercalation. 2010 , 20, 595-602	239
1227	Si/TiSi ₂ Heteronanostructures as high-capacity anode material for li ion batteries. 2010 , 10, 860-3	181
1226	Mn ₃ O ₄ -graphene hybrid as a high-capacity anode material for lithium ion batteries. 2010 , 132, 13978-80	1738
1225	Polyhedral 50-facet Cu ₂ O microcrystals partially enclosed by {311} high-index planes: synthesis and enhanced catalytic CO oxidation activity. 2010 , 132, 17084-7	195
1224	Materials science. Building a better battery. 2010 , 330, 1485-6	334
1223	Synthesis of Copper Nanocatalysts with Tunable Size Using Diblock Copolymer Solution Micelles. 2010 , 114, 5767-5772	18
1222	Porous Spheres Assembled from Polythiophene (PTh)-Coated Ultrathin MnO ₂ Nanosheets with Enhanced Lithium Storage Capabilities. 2010 , 114, 12048-12051	81

1221	Rapid Synthesis of Single-Crystalline SrSn(OH) ₆ Nanowires and the Performance of SrSnO ₃ Nanorods Used as Anode Materials for Li-Ion Battery. 2010 , 114, 947-952	44
1220	Electrical and Optoelectronic Response of Cupric Oxide Single Nanowire Surface Functionalized with a Fluorinated Benzenethiol Monolayer: Effects of Molecularly Engineered Contact and Surface Dipole. 2010 , 114, 1959-1962	1
1219	Morphological Control of Single Crystalline Co ₃ O ₄ Polyhedrons: Selective and Nonselective Growth of Crystal Planes Directed by Differently Charged Surfactants and Solvents. 2010 , 10, 1233-1236	43
1218	Lithium Storage in Amorphous TiO ₂ Nanoparticles. 2010 , 157, A582	148
1217	Designed functional systems from peapod-like Co@carbon to Co ₃ O ₄ @carbon nanocomposites. 2010 , 4, 4753-61	235
1216	Thin-Walled Carbon Microtubes as High-Capacity and High-Rate Anodes in Lithium-Ion Batteries. 2010 , 114, 10621-10627	26
1215	Synthesis of diphenylalanine/cobalt oxide hybrid nanowires and their application to energy storage. 2010 , 4, 159-64	135
1214	Magnetic properties of Cu _m O _n clusters: a first principles study. 2010 , 114, 8417-22	16
1213	Synthesis of nickel and nickel oxide nanoparticles via heat-treatment of simple octanoate precursor. 2010 , 494, 410-414	130
1212	Corrosion inhibition during synthesis of Cu ₂ O nanoparticles by 1,3-diaminopropylene in solution. 2010 , 52, 2804-2812	11
1211	Direct electrochemistry of hemoglobin immobilized in CuO nanowire bundles. 2010 , 83, 162-6	23
1210	Graphene Platelets and their Manganese Composites for Lithium-Ion Batteries. 2010 , 33, 23-32	7
1209	A New Look at Lithium Cobalt Oxide in a Broad Voltage Range for Lithium-Ion Batteries. 2010 , 114, 3323-3328	35
1208	Multi-electron reaction materials for high energy density batteries. 2010 , 3, 174-189	512
1207	Semiconductor nanowires for energy conversion. 2010 , 110, 527-46	1220
1206	Photo-catalytic degradation of trifluralin by SnO ₂ -doped Cu ₂ O crystals. 2010 , 11, 670-674	31
1205	Ag or Au Nanoparticle-Embedded One-Dimensional Composite TiO ₂ Nanofibers Prepared via Electrospinning for Use in Lithium-Ion Batteries. 2010 , 2, 2046-2052	249
1204	Facile Synthesis of Mesoporous TiO ₂ Nanosphere as an Improved Anode Material for Superior High Rate 1.5 V Rechargeable Li Ion Batteries Containing LiFePO ₄ Cathode. 2010 , 114, 10308-10313	109

1203	Graphene-Wrapped Fe ₃ O ₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. 2010 , 22, 5306-5313	1660
1202	Design of Electrode Materials for Lithium-Ion Batteries: The Example of Metal-Organic Frameworks. 2010 , 114, 9518-9527	75
1201	Structural and Electronic Properties of Li-Ion Battery Cathode Material FeF ₃ . 2010 , 114, 16813-16817	49
1200	Effect of K-doping on the Electrochemical Performance of Ca ₃ Co ₄ O ₉ Anode for Li-ion Batteries. 2010 , 26, 669-672	9
1199	Optical and magnetic properties of CuO nanowires grown by thermal oxidation. 2010 , 43, 135403	45
1198	Anisotropic Co ₃ O ₄ porous nanocapsules toward high-capacity Li-ion batteries. 2010 , 20, 1506	187
1197	Tuning Thermal Conductivity With Mechanical Strain. 2010 ,	
1196	Syntheses and Characterization of Wurtzite CoO, Rocksalt CoO, and Spinel Co ₃ O ₄ Nanocrystals: Their Interconversion and Tuning of Phase and Morphology. 2010 , 22, 4446-4454	131
1195	A template and catalyst-free metal-etching-oxidation method to synthesize aligned oxide nanowire arrays: NiO as an example. 2010 , 4, 4785-91	41
1194	Urea-Melt Assisted Synthesis of Ni/NiO Nanoparticles Exhibiting Structural Disorder and Exchange Bias. 2010 , 22, 6529-6541	47
1193	Nanocasting of Ordered Mesoporous Co ₃ O ₄ -Based Polyoxometalate Composite Frameworks. 2010 , 22, 5739-5746	48
1192	Strain effects on the thermal conductivity of nanostructures. 2010 , 81,	320
1191	A novel architected negative electrode based on titania nanotube and iron oxide nanowire composites for Li-ion microbatteries. 2010 , 20, 4041	82
1190	Nanosheet-Based NiO Microspheres: Controlled Solvothermal Synthesis and Lithium Storage Performances. 2010 , 114, 251-255	209
1189	Iron Oxide-Based Nanotube Arrays Derived from Sacrificial Template-Accelerated Hydrolysis: Large-Area Design and Reversible Lithium Storage. 2010 , 22, 212-217	298
1188	Excellent performance in lithium-ion battery anodes: rational synthesis of Co(CO ₃) _{0.5} (OH) _{0.1} ·H ₂ O nanobelt array and its conversion into mesoporous and single-crystal Co ₃ O ₄ . 2010 , 4, 1425-32	262
1187	The Origin of Capacity Fading in NiFe ₂ O ₄ Conversion Electrodes for Lithium Ion Batteries Unfolded by ⁵⁷ Fe Mössbauer Spectroscopy. 2010 , 114, 12828-12832	78
1186	Interplay between Magnetic and Orbital Ordering in the Strongly Correlated Cobalt Oxide: A DFT + U Study. 2010 , 114, 21750-21756	28

1185	A novel nanostructured spinel ZnCo ₂ O ₄ electrode material: morphology conserved transformation from a hexagonal shaped nanodisk precursor and application in lithium ion batteries. 2010 , 20, 4439	176
1184	Controlled fabrication and property studies of nickel hydroxide and nickel oxide nanostructures. 2010 , 12, 1404-1409	25
1183	Stibnite (Sb ₂ S ₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. 2010 , 20, 1097-1102	78
1182	CuO hollow nanostructures catalyze [3 + 2] cycloaddition of azides with terminal alkynes. 2010 , 46, 439-41	104
1181	Thermodynamics of nano- and macrocrystalline anatase using cell voltage measurements. 2010 , 12, 215-9	14
1180	SnO ₂ /NiO nanocomposite as a high capacity anode material for lithium-ion batteries. 2010 , 20, 9707	77
1179	Hollow core-shell eta-Fe ₂ O ₃ microspheres with excellent lithium-storage and gas-sensing properties. 2010 , 46, 3869-71	90
1178	Controlled Synthesis of Sb Nanostructures and Their Conversion to CoSb ₃ Nanoparticle Chains for Li-Ion Battery Electrodes. 2010 , 22, 5333-5339	57
1177	Tin Nitride Thin Films as Negative Electrode Material for Lithium-Ion Solid-State Batteries. 2010 , 157, A340	38
1176	Mesoporous Anatase TiO ₂ Electrodes Modified by Metal Deposition: Electrochemical Characterization and High Rate Performances. 2010 , 157, A164	29
1175	MnO/C Nanocomposites as High Capacity Anode Materials for Li-Ion Batteries. 2010 , 13, A139	77
1174	Formation, dynamics, and implication of solid electrolyte interphase in high voltage reversible conversion fluoride nanocomposites. 2010 , 20, 4149	81
1173	Nanotubes of Core/Shell Cu/Cu ₂ O as Anode Materials for Li-Ion Rechargeable Batteries. 2010 , 157, A682	28
1172	Valence electron energy-loss spectroscopy of silicon negative electrodes for lithium batteries. 2010 , 12, 220-6	33
1171	A facile approach to the synthesis of high-quality NiO nanorods: electrochemical and antibacterial properties. 2011 , 21, 15686	74
1170	Mitigating the initial capacity loss (ICL) problem in high-capacity lithium ion battery anode materials. 2011 , 21, 9819	62
1169	Porous structured SnSb/C nanocomposites for Li-ion battery anodes. 2011 , 47, 2122-4	62
1168	Synthesis, characterization and application for lithium-ion rechargeable batteries of hollow silica nanospheres. 2011 , 21, 13881	114

1167	Nanosize Si anode embedded in super-elastic nitinol (NiTi) shape memory alloy matrix for Li rechargeable batteries. 2011 , 21, 11213	69
1166	Photoinjection of hydrogen and the nature of a giant shift of the fundamental absorption edge in highly disordered V ₂ O ₅ films. 2011 , 13, 9490-7	12
1165	Facile synthesis of cuprous oxide using ultrasound, microwave and electric heating: effect of heating methods on synthesis kinetics, morphology and yield. 2011 , 13, 4060	18
1164	Development of a high-performance anode for lithium ion batteries using novel ordered mesoporous tungsten oxide materials with high electrical conductivity. 2011 , 13, 11060-6	125
1163	In situ growth and electrochemical characterization versus lithium of a core/shell-structured Ni ₂ P@C nanocomposite synthesized by a facile organic-phase strategy. 2011 , 21, 17988	58
1162	Nickel nitride as negative electrode material for lithium ion batteries. 2011 , 21, 9997	72
1161	Morphology-conserved transformation: synthesis of hierarchical mesoporous nanostructures of Mn ₂ O ₃ and the nanostructural effects on Li-ion insertion/deinsertion properties. 2011 , 21, 6346	152
1160	Synergistic effects of transition metal substitution in conversion electrodes for lithium-ion batteries. 2011 , 21, 10102	56
1159	Characterization of hollow hydroxyapatite/copper microspheres prepared from the reduction of copper-modified hydroxyapatite by glucose. 2011 , 60, 301-5	4
1158	Synthesis of manganese oxide nanostructures using bacterial soft templates. 2011 , 13, 6747	23
1157	Synergetic approach to achieve enhanced lithium ion storage performance in ternary phased SnO ₂ /Fe ₂ O ₃ /rGO composite nanostructures. 2011 , 21, 12770	76
1156	Isopropyl Alcohol Sensors of CuO Nanotubes by Thermal Oxidation of Copper Films on Glass. 2011 , 11, 3276-3282	4
1155	Sheet-like and fusiform CuO nanostructures grown on graphene by rapid microwave heating for high Li-ion storage capacities. 2011 , 21, 17916	96
1154	Bottom-up in situ formation of Fe ₃ O ₄ nanocrystals in a porous carbon foam for lithium-ion battery anodes. 2011 , 21, 17325	194
1153	Synthesis of mixed-conducting carbon coated porous Fe ₂ O ₃ microparticles and their properties for reversible lithium ion storage. 2011 , 21, 13009	64
1152	Accelerated electron beam induced breakdown of commercial WO ₃ into nanorods in the presence of triethylamine. 2011 , 13, 20923-6	10
1151	Self-assembled echinus-like nanostructures of mesoporous CoO nanorod@CNT for lithium-ion batteries. 2011 , 21, 6636	130
1150	One-pot shorter time synthesis of Cu ₂ O particles and nanoframes with novel shapes. 2011 , 13, 6265	12

1149	Nanostructured NiO electrode for high rate Li-ion batteries. 2011 , 21, 3571	304
1148	Synthesis of cuprous oxide nanocomposite electrodes by room-temperature chemical partial reduction. 2011 , 40, 9498-503	15
1147	Iron Oxide Nanosheets and Nanoparticles Synthesized by a Facile Single-Step Coprecipitation Method for Lithium-Ion Batteries. 2011 , 158, A231	37
1146	Preparation and characterization of rose-like NiO nanostructures. 2011 , 13, 5094	31
1145	Controllable synthesis of core-shell Co@CoO nanocomposites with a superior performance as an anode material for lithium-ion batteries. 2011 , 21, 18279	96
1144	A nanocomposite of SnO ₂ and single-walled carbon nanohorns as a long life and high capacity anode material for lithium ion batteries. 2011 , 1, 852	55
1143	Controlled Hydrothermal Growth of CuO-Based Nanostructures from Copper Alginate. 2011 , 688, 19-22	1
1142	Synthesis and Characterization of Porous CuO Nanorods. 2011 , 129, 25-29	4
1141	High capacity anode materials for Li-ion batteries based on spinel metal oxides AMn ₂ O ₄ (A = Co, Ni, and Zn). 2011 , 21, 10206	309
1140	Effect of Porosity on Cycle Performance in Three-Dimensional Disk Electrode for Li Ion Battery. 2011 , 50, 100201	
1139	Morphological evolution of (NH ₄) _{0.5} V ₂ O ₅ ·nH ₂ O fibers into belts, triangles, and rings. 2011 , 50, 7421-8	34
1138	Gas chromatography/mass spectrometry as a suitable tool for the Li-ion battery electrolyte degradation mechanisms study. 2011 , 83, 478-85	170
1137	Single-walled carbon nanohorns coated with Fe ₂ O ₃ as a superior anode material for lithium ion batteries. 2011 , 47, 7416-8	120
1136	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. 2011 , 3, 62-71	45
1135	Structural evolution from mesoporous Fe ₂ O ₃ to Fe ₃ O ₄ @C and Fe ₂ O ₃ nanospheres and their lithium storage performances. 2011 , 13, 4709	101
1134	Study of the Conversion Reaction Mechanism for Copper Borate as Electrode Material in Lithium-Ion Batteries. 2011 , 158, A898	15
1133	Spongelike Nanosized Mn ₃ O ₄ as a High-Capacity Anode Material for Rechargeable Lithium Batteries. 2011 , 23, 3223-3227	322
1132	Identification of 5-7 defects in a copper oxide surface. 2011 , 133, 11474-7	71

1131	Facile synthesis of monodisperse porous Co ₃ O ₄ microspheres with superior ethanol sensing properties. 2011 , 47, 12852-4	103
1130	Electrochemical Fabrication of Copper-Based Hybrid Microstructures and Mechanism of Formation of Related Hierarchical Structures on Polypyrrole Films. 2011 , 115, 20076-20083	12
1129	Versatile Electronic and Magnetic Properties of Corrugated V ₂ O ₅ Two-Dimensional Crystal and Its Derived One-Dimensional Nanoribbons: A Computational Exploration. 2011 , 115, 11983-11990	32
1128	Porous ZnCo ₂ O ₄ nanowires synthesis via sacrificial templates: high-performance anode materials of Li-ion batteries. 2011 , 50, 3320-4	159
1127	Particle Size Effect of Anatase TiO ₂ Nanocrystals for Lithium-Ion Batteries. 2011 , 158, A59	62
1126	Reversible Electrochemical Conversion Reaction of Li ₂ O/CuO Nanocomposites and Their Application as High-Capacity Cathode Materials for Li-Ion Batteries. 2011 , 115, 6167-6174	39
1125	Synthesis, characterization, and electrochemical properties of a series of sterically varied iron(II) alkoxide precursors and their resultant nanoparticles. 2011 , 50, 6174-82	12
1124	Fabrication of cuprous oxide nanoparticles by laser ablation in PVP aqueous solution. 2011 , 1, 847	57
1123	l-Serine-Assisted Synthesis of Superparamagnetic Fe ₃ O ₄ Nanocubes for Lithium Ion Batteries. 2011 , 115, 24688-24695	60
1122	Electrochemical Behavior and Magnetic Properties of Vanadium Oxide Nanotubes. 2011 , 115, 5265-5270	19
1121	Nanosized Zn _n metal composite oxide: a new anode material for Li ion battery. 2011 , 27, 29-34	7
1120	Comparing one- and two-dimensional heteronanostructures as silicon-based lithium ion battery anode materials. 2011 , 5, 9225-31	66
1119	Nano-ZnCo ₂ O ₄ Material Preparation by Molten Salt Method and Its Electrochemical Properties for Lithium Batteries. 2011 , 158, A1423	99
1118	Unique Lamellar Sodium/Potassium Iron Oxide Nanosheets: Facile Microwave-Assisted Synthesis and Magnetic and Electrochemical Properties. 2011 , 23, 3946-3952	39
1117	CoBe layered double hydroxide nanowall array grown from an alloy substrate and its calcined product as a composite anode for lithium-ion batteries. 2011 , 21, 15969	61
1116	Dual lithium insertion and conversion mechanisms in a titanium-based mixed-anion nanocomposite. 2011 , 133, 13240-3	33
1115	Structural and optical properties of CuO layered hexagonal discs synthesized by a low-temperature hydrothermal process. 2011 , 44, 155405	51
1114	Effects of polypyrrole on the performance of nickel oxide anode materials for rechargeable lithium-ion batteries. 2011 , 26, 860-866	32

1113	Molten Salt Synthesis and Its Electrochemical Characterization of Co ₃ O ₄ for Lithium Batteries. 2011 , 14, A79	92
1112	A novel and facile method to prepare porous hollow CuO and Cu nanofibers based on electrospinning. 2011 , 13, 4856	82
1111	Selective-etching growth of urchin-like Cu ₂ O architectures. 2011 , 13, 6616	27
1110	Solid-solid conversion of ordered crystalline mesoporous metal oxides under reducing atmosphere. 2011 , 21, 9312	41
1109	Nanomaterials for Alternative Energy. 2011 , 199-246	
1108	Graphene nanosheets based on controlled exfoliation process for enhanced lithium storage in lithium-ion battery. 2011 , 20, 756-761	53
1107	Nontrivial redox behavior of nanosized cobalt: new insights from ambient pressure X-ray photoelectron and absorption spectroscopies. 2011 , 5, 2182-90	79
1106	Better lithium-ion batteries with nanocable-like electrode materials. 2011 , 4, 1634	114
1105	Shape control of cadmium hydroxides (Cd(OH) ₂) sensitive to pH quenching depth and massive production of CdSe nanocrystals by their chemical transformation. 2011 , 22, 315604	7
1104	Morphosynthesis of a hierarchical MoO ₂ nanoarchitecture as a binder-free anode for lithium-ion batteries. 2011 , 4, 2870	225
1103	Thermodynamic analysis on energy densities of batteries. 2011 , 4, 2614	634
1102	Fe ₂ O ₃ nanotubes with superior lithium storage capability. 2011 , 47, 8061-3	246
1101	Highly reversible lithium storage in Bacillus subtilis -directed porous Co ₃ O ₄ nanostructures. 2011 , 5, 443-9	174
1100	Nanostructured reduced graphene oxide/Fe ₂ O ₃ composite as a high-performance anode material for lithium ion batteries. 2011 , 5, 3333-8	1123
1099	Magnetite/graphene nanosheet composites: interfacial interaction and its impact on the durable high-rate performance in lithium-ion batteries. 2011 , 1, 782	288
1098	SnO ₂ nanorod-planted graphite: an effective nanostructure configuration for reversible lithium ion storage. 2011 , 3, 828-35	78
1097	Graphene-encapsulated hollow Fe ₃ O ₄ nanoparticle aggregates as a high-performance anode material for lithium ion batteries. 2011 , 3, 3078-83	271
1096	Nanoconfinement effects in energy storage materials. 2011 , 13, 21186-95	101

1095	CuO nanostructures supported on Cu substrate as integrated electrodes for highly reversible lithium storage. 2011 , 3, 1618-23	157
1094	SnO ₂ hollow structures and TiO ₂ nanosheets for lithium-ion batteries. 2011 , 21, 9912	308
1093	Study of the Nucleation and Growth Mechanisms in the Electrodeposition of Micro- and Nanostructured Cu ₂ O Thin Films. 2011 , 115, 21373-21382	40
1092	Wet chemical synthesis of Cu/TiO ₂ nanocomposites with integrated nano-current-collectors as high-rate anode materials in lithium-ion batteries. 2011 , 13, 2014-20	66
1091	A novel mesoporous carbon-silica-titania nanocomposite as a high performance anode material in lithium ion batteries. 2011 , 47, 4944-6	37
1090	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe ₂ O ₄ nanofibers for lithium ion batteries. 2011 , 21, 14999	197
1089	Assembly of Nanoparticles. 2011 , 51-67	1
1088	Preparation and lithium storage performances of mesoporous Fe ₃ O ₄ @C microcapsules. 2011 , 3, 705-9	189
1087	Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO ₂ Nanotube as Anode for Lithium Ion Batteries. 2011 , 2, 1855-1860	251
1086	High-capacity lithium insertion materials of lithium nickel manganese oxides for advanced lithium-ion batteries: toward rechargeable capacity more than 300 mA h g ⁻¹ . 2011 , 21, 10179	291
1085	Origin of Bonding between the SWCNT and the Fe ₃ O ₄ (001) Surface and the Enhanced Electrical Conductivity. 2011 , 2, 2853-2858	15
1084	Self-stacked Co ₃ O ₄ nanosheets for high-performance lithium ion batteries. 2011 , 47, 12280-2	113
1083	NiO nanocone array electrode with high capacity and rate capability for Li-ion batteries. 2011 , 21, 9988	186
1082	Wolframite-type ZnWO ₄ Nanorods as New Anodes for Li-Ion Batteries. 2011 , 115, 16228-16233	65
1081	SnO ₂ /WO ₃ core-shell nanorods and their high reversible capacity as lithium-ion battery anodes. 2011 , 22, 395702	54
1080	Rapid synthesis of flower-like Cu ₂ O architectures in ionic liquids by the assistance of microwave irradiation with high photochemical activity. 2011 , 40, 6745-50	66
1079	A review of advanced and practical lithium battery materials. 2011 , 21, 9938	830
1078	Nanocrystalline Copper(II) Oxide-Catalyzed One-Pot Synthesis of Imidazo[1,2-a]quinoline and Quinolino[1,2-a]quinazoline Derivatives via a Three-Component Condensation. 2011 , 41, 426-435	19

1077	Inorganic nanostructures grown on graphene layers. 2011 , 3, 3522-33	72
1076	Mesoporous NiO with various hierarchical nanostructures by quasi-nanotubes/nanowires/nanorods self-assembly: controllable preparation and application in supercapacitors. 2011 , 13, 626-632	113
1075	Biomolecule-assisted in situ route toward 3D superhydrophilic Ag/CuO micro/nanostructures with excellent artificial sunlight self-cleaning performance. 2011 , 21, 7281	36
1074	Eruption combustion synthesis of NiO/Ni nanocomposites with enhanced properties for dye-absorption and lithium storage. 2011 , 3, 4112-9	109
1073	Enhancing the lithium storage performance of iron oxide composites through partial substitution with Ni ²⁺ or Co ²⁺ . 2011 , 21, 19101	38
1072	The cationic surfactant-assisted syntheses of 26-faceted and hexapod-shaped Cu ₂ O and their electrochemical performances. 2011 , 13, 4174	41
1071	Improved Electrochemical Performance of Self-Assembled Hierarchical Nanostructured Nickel Phosphide as a Negative Electrode for Lithium Ion Batteries. 2011 , 115, 23760-23767	69
1070	Ultrathin alumina-coated carbon nanotubes as an anode for high capacity Li-ion batteries. 2011 , 21, 13621	61
1069	Polyol-Mediated Synthesis of TiO ₂ Nanoparticles. 2011 , 312-315, 160-165	1
1068	Controllable synthesis of spinel nano-ZnMn ₂ O ₄ via a single source precursor route and its high capacity retention as anode material for lithium ion batteries. 2011 , 21, 11987	120
1067	Morphology-controlled flame synthesis of single, branched, and flower-like H ₂ MoO ₃ nanobelt arrays. 2011 , 11, 872-7	139
1066	Morphology-controlled hydrothermal synthesis and growth mechanism of microcrystal Cu ₂ O. 2011 , 13, 633-636	76
1065	TiSnSb a new efficient negative electrode for Li-ion batteries: mechanism investigations by operando-XRD and Mössbauer techniques. 2011 , 21, 10069	51
1064	Atomic-scale investigation on lithium storage mechanism in TiNb ₂ O ₇ . 2011 , 4, 2638	205
1063	A hybrid material of vanadium nitride and nitrogen-doped graphene for lithium storage. 2011 , 21, 11916	83
1062	NANOSTRUCTURED ELECTRODE MATERIALS FOR LITHIUM BATTERIES. 2011 , 85-126	
1061	Fe ₃ O ₄ nanoparticle-integrated graphene sheets for high-performance half and full lithium ion cells. 2011 , 13, 7170-7	229
1060	A simple method for controlling the type of cuprous oxide semiconductors using different surfactants. 2011 , 21, 5408	17

1059	Synthesis, control, and characterization of surface properties of CuO nanostructures. 2011 , 5, 3736-43	55
1058	Linker-free 3D assembly of nanocrystals with tunable unit size for reversible lithium ion storage. 2011 , 22, 355401	41
1057	Nitridated TiO ₂ hollow nanofibers as an anode material for high power lithium ion batteries. 2011 , 4, 4532	230
1056	Designed strategy to fabricate a patterned V ₂ O ₅ nanobelt array as a superior electrode for Li-ion batteries. 2011 , 21, 2362-2368	89
1055	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. 2011 , 21, 3046	423
1054	Synthesis and Measurement of SnO ₂ @C/graphene Nanocomposite for Lithium Ion Batteries. 2011 , 396-398, 2330-2333	
1053	Kinetically limited de-lithiation behavior of nanoscale tin-covered tin oxide nanowires. 2011 , 4, 1695	51
1052	Enhanced rate performance and cyclic stability of Fe ₃ O ₄ -graphene nanocomposites for Li ion battery anodes. 2011 , 47, 10371-3	120
1051	Mixed valence ZnO-layered double hydroxides and their exfoliated nanosheets with electrode functionality. 2011 , 21, 4286	96
1050	Density functional theory calculations of surface properties and H ₂ adsorption on the Cu ₂ O (111) surface. 2011 , 257, 10710-10714	17
1049	Formation of CuO nanowires by thermal annealing copper film deposited on Ti/Si substrate. 2011 , 258, 201-206	31
1048	Graphene surface-enabled lithium ion-exchanging cells: next-generation high-power energy storage devices. 2011 , 11, 3785-91	212
1047	Designed synthesis of SnO ₂ -polyaniline-reduced graphene oxide nanocomposites as an anode material for lithium-ion batteries. 2011 , 21, 17654	110
1046	Electrochemical Impedance Analysis of a Hierarchical CuO Electrode Composed of Self-Assembled Nanoplates. 2011 , 115, 2505-2513	138
1045	Fe ₃ O ₄ /Graphene Nanocomposites with Improved Lithium Storage and Magnetism Properties. 2011 , 115, 14469-14477	421
1044	Polypyrrole-iron-oxygen coordination complex as high performance lithium storage material. 2011 , 4, 3442	56
1043	Electrochemical charge and discharge properties for the formation of magnesium and aluminum hydrides. 2011 , 509, S584-S587	20
1042	Hierarchical CuO hollow microspheres: Controlled synthesis for enhanced lithium storage performance. 2011 , 509, 3367-3374	63

1041	Electrochemical properties of NiO/CoB nanocomposite as anode materials for lithium ion batteries. 2011 , 509, 3425-3429	19
1040	Self-assembled sandwich-like NiO film and its application for Li-ion batteries. 2011 , 509, 3889-3893	55
1039	Conversion materials for hydrogen storage and electrochemical applications—Concepts and similarities. 2011 , 509, S529-S534	29
1038	Large-scale synthesis of macroporous SnO ₂ with/without carbon and their application as anode materials for lithium-ion batteries. 2011 , 509, 5969-5973	38
1037	Nanostructured MgFe ₂ O ₄ as anode materials for lithium-ion batteries. 2011 , 509, 7038-7041	81
1036	Low temperature synthesis of Fe ₃ O ₄ micro-spheres and its application in lithium ion battery. 2011 , 509, L305-L307	22
1035	Controlled synthesis of uniform ultrafine CuO nanowires as anode material for lithium-ion batteries. 2011 , 509, 9798-9803	58
1034	Improvement of structural and electrical properties of Cu ₂ O films with InN epilayers. 2011 , 334, 46-50	5
1033	Building one-dimensional oxide nanostructure arrays on conductive metal substrates for lithium-ion battery anodes. 2011 , 3, 45-58	306
1032	Electrochemical behavior of SiO anode for Li secondary batteries. 2011 , 661, 245-249	93
1031	Template synthesis of MnO ₂ /CNT nanocomposite and its application in rechargeable lithium batteries. 2011 , 21, 2010-2014	17
1030	Micro-sized and Nano-sized Fe ₃ O ₄ Particles as Anode Materials for Lithium-ion Batteries. 2011 , 27, 41-45	51
1029	Lithium-Based Batteries for Efficient Energy Storage: Nanotechnology and Its Implications. 2011 , 719-759	
1028	Nanostructured carbon-based electrodes: bridging the gap between thin-film lithium-ion batteries and electrochemical capacitors. 2011 , 4, 1972	319
1027	Glucose-Assisted One-Pot Synthesis of FeOOH Nanorods and Their Transformation to Fe ₃ O ₄ @Carbon Nanorods for Application in Lithium Ion Batteries. 2011 , 115, 9814-9820	276
1026	Batteries based on fluoride shuttle. 2011 , 21, 17059	287
1025	Prospective materials and applications for Li secondary batteries. 2011 , 4, 1986	502
1024	Materials Challenges and Opportunities of Lithium Ion Batteries. 2011 , 2, 176-184	806

1023	Li ion battery materials with core-shell nanostructures. 2011 , 3, 3967-83	426
1022	Superparamagnetic iron oxide nanoparticles (SPIONs): development, surface modification and applications in chemotherapy. 2011 , 63, 24-46	1309
1021	Characterization of the Conversion Reaction of NiO by Li at Multiple Length Scales. 2011 ,	
1020	Designing Nanocrystal Electrodes by Supercritical Fluid Process and Their Electrochemical Properties. 2011 ,	
1019	Size- and Shape-Controlled Synthesis of Monodisperse Metal Oxide and Mixed Oxide Nanocrystals. 2011 ,	6
1018	Potential-pH Diagrams for Oxidation-State Control of Nanoparticles Synthesized via Chemical Reduction. 2011 ,	1
1017	?????????????????????. 2011 , 79, 470-476	6
1016	Lithium-Ion Batteries: Li ⁶⁷ MAS NMR Studies on Materials. 2011 ,	1
1015	Lithium-Ion Batteries: Li ⁶⁷ MAS NMR Studies on Materials. 2011 ,	
1014	Controlled Synthesis and Photoluminescent Properties of Cu ₂ O Microcrystals with Different Morphologies. 2011 , 40, 860-861	1
1013	Inorganic Nanobelt Materials. 2011 ,	1
1012	A Facile Surfactant Assisted Synthesis of Self-Assembled Cuprous Oxide Nanostructured Superlattice. 2011 , 94, 2266-2268	10
1011	The lithium intercalation process in the low-voltage lithium battery anode Li(1+x)V(1-x)O ₂ . 2011 , 10, 223-9	244
1010	A simple approach for the synthesis of Co ₃ O ₄ nanocrystals. 2011 , 47, 426-430	10
1009	Microwave-assisted synthesis and electrochemical properties of urchin-like CuO micro-crystals. 2011 , 13, 2137-2141	20
1008	Tuning doping site and type by strain: Enhanced n-type doping in Li doped ZnO. 2011 , 151, 1437-1439	16
1007	Electrochemical properties of Fe ₂ O ₃ /MWCNTs as anode materials for lithium-ion batteries. 2011 , 201, 54-59	24
1006	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. 2011 , 72, 203-252	415

1005	Formation of lithium fluoride/metal nanocomposites for energy storage through solid state reduction of metal fluorides. 2011 , 132, 1086-1094	54
1004	Facile synthesis and electrochemical properties of Fe ₃ O ₄ nanoparticles for Li ion battery anode. 2011 , 196, 8669-8674	68
1003	Enhanced electrochemical performance of porous NiO _x /Li nanocomposite anode for lithium ion batteries. 2011 , 196, 9625-9630	154
1002	Direct synthesis and coating of advanced nanocomposite negative electrodes for Li-ion batteries via electrospraying. 2011 , 196, 10191-10200	19
1001	Synthesis of Co ₂ SnO ₄ @C core-shell nanostructures with reversible lithium storage. 2011 , 196, 10234-10239	58
1000	TiO ₂ nanorods branched on fast-synthesized large clearance TiO ₂ nanotube arrays for dye-sensitized solar cells. 2011 , 184, 2936-2940	16
999	Synthesis of copper oxide nanostructures via a composite-Hydroxide-mediated approach: Morphology control and the electrochemical performances as anode material for lithium ion batteries. 2011 , 44, 506-510	11
998	Microwave-assisted synthesis and magnetic studies of cobalt oxide nanoparticles. 2011 , 125, 347-350	85
997	Microwave homogeneous synthesis of porous nanowire Co ₃ O ₄ arrays with high capacity and rate capability for lithium ion batteries. 2011 , 126, 747-754	50
996	Cu ₂ O nanorod thin films prepared by CBD method with CTAB: Substrate effect, deposition mechanism and photoelectrochemical properties. 2011 , 127, 433-439	32
995	Hydrothermal synthesis of Co ₃ O ₄ with different morphologies and the improvement of lithium storage properties. 2011 , 128, 475-482	12
994	Shape controlled synthesis and characterization of Cu ₂ O nanostructures assisted by composite surfactants system. 2011 , 129, 740-745	18
993	Low temperature synthesis of Fe ₃ O ₄ nanoparticles and its application in lithium ion batteries. 2011 , 130, 1260-1264	8
992	Electrochemical performance of CuO nanocrystal film fabricated by room temperature sputtering. 2011 , 46, 424-427	36
991	Facile fabrication of p-n heterojunctions for Cu ₂ O submicroparticles deposited on anatase TiO ₂ nanobelts. 2011 , 46, 2084-2089	17
990	A simple and facile method to synthesize Co ₃ O ₄ nanoparticles from metal benzoate dihydrazinate complex as a precursor. 2011 , 65, 1482-1484	30
989	One-step preparation of six-armed Fe ₃ O ₄ dendrites with carbon coating applicable for anode material of lithium-ion battery. 2011 , 65, 3157-3159	19
988	Synthesis and Magnetic Properties of Cobalt Oxide Nanowires Array With Columnar SBA-15. 2011 , 47, 2851-2854	10

987	Low-temperature synthesis of CuO-interlaced nanodiscs for lithium ion battery electrodes. 2011 , 6, 397	40
986	Na _x VO ₂ as possible electrode for Na-ion batteries. 2011 , 13, 938-941	204
985	Durable high-rate performance of CuO hollow nanoparticles/graphene-nanosheet composite anode material for lithium-ion batteries. 2011 , 13, 1357-1360	106
984	Oxidized FeCoNi alloys as novel anode in Li-ion batteries. 2011 , 13, 1427-1430	19
983	High capacity Sb ₂ O ₄ thin film electrodes for rechargeable sodium battery. 2011 , 13, 1462-1464	169
982	Fabrication of nanometer-to-micron sized Cu ₂ O single crystals by electrodeposition. 2011 , 56, 7686-7695	14
981	Low-temperature growth of well-crystalline Co ₃ O ₄ hexagonal nanodisks as anode material for lithium-ion batteries. 2011 , 56, 8534-8538	27
980	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. 2011 , 56, 9233-9239	45
979	Modeling space charge layer interaction and conductivity enhancement in nanoionic composites. 2011 , 56, 9295-9302	9
978	A novel Fe ₃ O ₄ /SnO ₂ /graphene ternary nanocomposite as an anode material for lithium-ion batteries. 2011 , 58, 81-88	68
977	Synthesis of silicon/carbon, multi-core/shell microspheres using solution polymerization for a high performance Li ion battery. 2011 , 58, 578-582	24
976	Selection of oxygen reduction catalysts for rechargeable lithium-air batteries—Metal or oxide?. 2011 , 108-109, 140-151	81
975	CuO nanoparticles: An efficient and recyclable nanocatalyst for the rapid and green synthesis of 3,4-dihydropyrano[c]chromenes. 2011 , 22, 1419-1422	64
974	High Mobility and High Storage Capacity of Lithium in sp ² Hybridized Carbon Network: The Case of Graphyne. 2011 , 115, 8845-8850	201
973	Interface electrochemistry in conversion materials for Li-ion batteries. 2011 , 21, 10134	61
972	Conversion reaction mechanisms in lithium ion batteries: study of the binary metal fluoride electrodes. 2011 , 133, 18828-36	414
971	SnO ₂ /MoO ₃ core-shell nanobelts and their extraordinarily high reversible capacity as lithium-ion battery anodes. 2011 , 47, 5205-7	172
970	Effect of Ultrasonic-assisted Preparation Methods on Structure, Morphology and Optical Properties of Nanosized Cupric Oxide. 2011 , 58, 319-325	2

969	Morphology-controllable synthesis of cobalt oxalates and their conversion to mesoporous Co ₃ O ₄ nanostructures for application in supercapacitors. 2011 , 50, 6482-92	245
968	Electrical energy storage for the grid: a battery of choices. 2011 , 334, 928-35	9187
967	Recent developments in nanostructured anode materials for rechargeable lithium-ion batteries. 2011 , 4, 2682	1848
966	Catalytic Oxidation of Carbon Monoxide over Transition Metal Oxides. 2011 , 3, 24-65	688
965	Challenges in the development of advanced Li-ion batteries: a review. 2011 , 4, 3243	4665
964	XAS study of the reversible reactivity mechanism of micro- and nanostructured electrodeposited Cu ₂ O thin films towards lithium. 2011 , 21, 5368	24
963	Complex nanostructures synthesized from nanoparticle colloids under an external electric field. 2011 , 3, 3933-40	9
962	The compatibility of transition metal oxide/carbon composite anode and ionic liquid electrolyte for the lithium-ion battery. 2011 , 41, 1261-1267	15
961	Soft mechanochemically assisted synthesis of nano-sized LiCoO ₂ with a layered structure. 2011 , 46, 7106-7113	18
960	Cellulose scaffolds modulated synthesis of Co ₃ O ₄ nanocrystals: preparation, characterization and properties. 2011 , 18, 1273-1283	7
959	Continuous supercritical hydrothermal synthesis: lithium secondary ion battery applications. 2011 , 37, 429-440	13
958	Large-scale synthesis of Ag _{1.8} Mn ₈ O ₁₆ nanorods and their electrochemical lithium-storage properties. 2011 , 13, 3139-3148	14
957	Synthesis of starfish-like Cu ₂ O nanocrystals through γ irradiation and their application in lithium-ion batteries. 2011 , 13, 2705-2713	24
956	Platelike CoO/carbon nanofiber composite electrode with improved electrochemical performance for lithium ion batteries. 2011 , 15, 183-188	29
955	Electrodeposition and characterization of assembly of Sn on Cu nanorods for Li-ion microbattery application. 2011 , 15, 2639-2644	9
954	Cobalt oxide-graphene nanocomposite as anode materials for lithium-ion batteries. 2011 , 15, 2587-2592	35
953	The effect of TiO ₂ coating on the electrochemical performance of ZnO nanorod as the anode material for lithium-ion battery. 2011 , 102, 545-550	57
952	Nanoporous MnO _x thin-film electrodes synthesized by electrochemical lithiation/delithiation for supercapacitors. 2011 , 196, 2398-2402	16

951	Iron oxide porous nanorods with different textural properties and surface composition: Preparation, characterization and electrochemical lithium storage capabilities. 2011 , 196, 2164-2170	38
950	A ^{57}Fe Mössbauer spectroscopy study of cobalt ferrite conversion electrodes for Li-ion batteries. 2011 , 196, 6978-6981	17
949	The electrochemical behaviour of the carbon-coated $\text{Ni}_0.5\text{TiOPO}_4$ electrode material. 2011 , 196, 2819-2825	23
948	X-ray absorption fine structure study of amorphous metal oxide thin films prepared by photochemical metalorganic deposition. 2011 , 184, 1025-1035	28
947	Superior cycle performance of Sn@C/graphene nanocomposite as an anode material for lithium-ion batteries. 2011 , 184, 1400-1404	123
946	Growth behavior and sensing properties of nanograins in CuO nanofibers. 2011 , 172, 550-556	88
945	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. 2011 , 4, 290-296	61
944	Cu $_2$ O-Au nanocomposites with novel structures and remarkable chemisorption capacity and photocatalytic activity. 2011 , 4, 948-962	44
943	Microwave-assisted synthesis of porous nickel oxide nanostructures as anode materials for lithium-ion batteries. 2011 , 30, 59-62	8
942	Recent progress of computational investigation on anode materials in Li ion batteries. 2011 , 6, 197-203	15
941	Synthesis temperature dependence of morphologies and properties of cobalt oxide and silicon nanocrystals. 2011 , 5, 311-321	3
940	Overcoming doping bottleneck by using surfactant and strain. 2011 , 5, 335-341	9
939	Copper nanofiber-networked cobalt oxide composites for high performance Li-ion batteries. 2011 , 6, 292	13
938	Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy. 2011 , 18, 773-81	200
937	TiO $_2$ anatase nanoparticle networks: synthesis, structure, and electrochemical performance. 2011 , 7, 1690-6	86
936	Sustained Lithium-Storage Performance of Hierarchical, Nanoporous Anatase TiO $_2$ at High Rates: Emphasis on Interfacial Storage Phenomena. 2011 , 21, 3464-3472	493
935	Fe $_3\text{O}_4$ Nanoparticles Confined in Mesocellular Carbon Foam for High Performance Anode Materials for Lithium-Ion Batteries. 2011 , 21, 2430-2438	370
934	Epitaxial Growth of Branched $\text{Fe}_2\text{O}_3/\text{SnO}_2$ Nano-Heterostructures with Improved Lithium-Ion Battery Performance. 2011 , 21, 2439-2445	408

933	Biomimetic Solid-Solution Precursors of Metal Carbonate for Nanostructured Metal Oxides: MnO/Co and MnO-CoO Nanostructures and Their Electrochemical Properties. 2011 , 21, 3673-3680	63
932	Functional materials for rechargeable batteries. 2011 , 23, 1695-715	1269
931	The iron oxides strike back: from biomedical applications to energy storage devices and photoelectrochemical water splitting. 2011 , 23, 5243-9	192
930	Cu-Si nanocable arrays as high-rate anode materials for lithium-ion batteries. 2011 , 23, 4415-20	266
929	A novel solution-stamping process for preparation of a highly conductive aluminum thin film. 2011 , 23, 5524-8	50
928	All-Solid-State Lithium-Ion Microbatteries: A Review of Various Three-Dimensional Concepts. 2011 , 1, 10-33	567
927	Semi-Solid Lithium Rechargeable Flow Battery. 2011 , 1, 511-516	394
926	Carbon Encapsulated-Iron Lithium Fluoride Nanocomposite as High Cyclic Stability Cathode Material in Lithium Batteries. 2011 , 173-181	
925	Trace Level Determination of Hydrogen Peroxide at a Carbon Ceramic Electrode Modified with Copper Oxide Nanostructures. 2011 , 23, 1691-1698	13
924	Hydrothermal synthesis of highly symmetric 26-facet Cu ₂ O polyhedra. 2011 , 46, 300-304	11
923	Synthesis, transformation to octahedron-like crystals, and gas-sensing property of six-horned nanospheres of Cu ₂ O. 2011 , 46, n/a-n/a	
922	Graphene-encapsulated Fe ₃ O ₄ nanoparticles with 3D laminated structure as superior anode in lithium ion batteries. 2011 , 17, 661-7	374
921	Topochemical synthesis of cobalt oxide-based porous nanostructures for high-performance lithium-ion batteries. 2011 , 17, 1596-604	47
920	Electrochemically fabricated polypyrrole-cobalt-oxygen coordination complex as high-performance lithium-storage materials. 2011 , 17, 14878-84	38
919	Pillow-shaped porous CuO as anode material for lithium-ion batteries. 2011 , 14, 38-41	44
918	Highly reversible Co ₃ O ₄ /graphene hybrid anode for lithium rechargeable batteries. 2011 , 49, 326-332	327
917	Driving force and growth mechanism for spontaneous oxide nanowire formation during the thermal oxidation of metals. 2011 , 59, 2491-2500	182
916	Synthesis of urchin-like Co ₃ O ₄ hierarchical micro/nanostructures and their photocatalytic activity. 2011 , 257, 6527-6530	50

915	Nanostructured NiSi thin films as a new anode material for lithium ion batteries. 2011 , 13, 546-549	31
914	Facile preparation of nanocrystalline Li ₄ Ti ₅ O ₁₂ and its high electrochemical performance as anode material for lithium-ion batteries. 2011 , 13, 654-656	66
913	Monodispersed macroporous architecture of nickel-oxide film as an anode material for thin-film lithium-ion batteries. 2011 , 56, 2068-2073	40
912	Nano-CaCO ₃ templated mesoporous carbon as anode material for Li-ion batteries. 2011 , 56, 6464-6468	67
911	Ultrafine metatitanic acid electrode for ultrafast lithium ion batteries. 2011 , 56, 6330-6335	7
910	Structural evolution and stability studies of heterostructures comprised of carbon nanotubes decorated with nickel/nickel oxide core/shell nanoparticles. 2011 , 49, 3645-3662	22
909	Electrochemical reaction of lithium with CoCl ₂ in nonaqueous electrolyte. 2011 , 13, 269-271	33
908	The investigation on electrochemical reaction mechanism of CuF ₂ thin film with lithium. 2011 , 56, 2328-2335	32
907	Preparation and electrochemical performance of flower-like hematite for lithium-ion batteries. 2011 , 56, 3175-3181	54
906	Molten hydroxides synthesis of hierarchical cobalt oxide nanostructure and its application as anode material for lithium ion batteries. 2011 , 56, 4876-4881	38
905	Electrochemistry of V ₂ O ₅ with lithium. 2011 , 56, 5532-5537	10
904	Porous ZnO nanosheets grown on copper substrates as anodes for lithium ion batteries. 2011 , 56, 4960-4965	241
903	Surfactant carbonization to synthesize pseudocubic Fe ₂ O ₃ /C nanocomposite and its electrochemical performance in lithium-ion batteries. 2011 , 56, 5593-5598	42
902	Electrochemical properties of Cu ₂ O/Cu composite particles prepared by a novel and facile method. 2011 , 56, 5783-5787	5
901	Coaxial MnO/C nanotubes as anodes for lithium-ion batteries. 2011 , 56, 5844-5848	127
900	Facile synthesis of MnO/C anode materials for lithium-ion batteries. 2011 , 56, 6448-6452	142
899	Electrochemical properties of electrospun Cu _x O (x= 1, 2)-embedded carbon nanofiber with EXAFS analysis. 2011 , 56, 6722-6731	12
898	CuO/C microspheres as anode materials for lithium ion batteries. 2011 , 56, 6752-6756	80

897	Chemical transformations of nanostructured materials. 2011 , 6, 186-203	215
896	Hollow Co ₃ O ₄ thin films as high performance anodes for lithium-ion batteries. 2011 , 196, 784-787	62
895	Vertically aligned carbon nanotube electrodes for lithium-ion batteries. 2011 , 196, 1455-1460	114
894	High capacity and high rate capability of nanostructured CuFeO ₂ anode materials for lithium-ion batteries. 2011 , 196, 7025-7029	47
893	Investigation on porous MnO microsphere anode for lithium ion batteries. 2011 , 196, 6802-6808	198
892	Synthesis of Co ₃ O ₄ /Carbon composite nanowires and their electrochemical properties. 2011 , 196, 6987-6991	113
891	MnO/C core-shell nanorods as high capacity anode materials for lithium-ion batteries. 2011 , 196, 3346-3349	279
890	Facile synthesis of hierarchically structured Fe ₃ O ₄ /carbon micro-flowers and their application to lithium-ion battery anodes. 2011 , 196, 3887-3893	215
889	Synthesis and rate performance of Fe ₃ O ₄ -based Cu nanostructured electrodes for Li ion batteries. 2011 , 196, 4779-4784	38
888	New three-dimensional electrode structure for the lithium battery: Nano-sized Fe ₂ O ₃ in a mesoporous carbon matrix. 2011 , 196, 4741-4746	37
887	Electrospinning materials for energy-related applications and devices. 2011 , 196, 4886-4904	353
886	Modified synthesis of [Fe/LiF/C] nanocomposite, and its application as conversion cathode material in lithium batteries. 2011 , 196, 5936-5944	46
885	Nanostructured Fe ₂ O ₃ and CuO composite electrodes for Li ion batteries synthesized and deposited in one step. 2011 , 196, 6425-6432	42
884	Co-doped NiO nanoflake arrays toward superior anode materials for lithium ion batteries. 2011 , 196, 6388-6393	156
883	One-step green synthesis of cuprous oxide crystals with truncated octahedra shapes via a high pressure flux approach. 2011 , 184, 2097-2102	16
882	Low cost, surfactant-less, one pot synthesis of Cu ₂ O nano-octahedra at room temperature. 2011 , 184, 2209-2214	36
881	Roles of nanosize in lithium reactive nanomaterials for lithium ion batteries. 2011 , 6, 28-41	356
880	Graphene based materials: Past, present and future. 2011 , 56, 1178-1271	2607

879	Charge/discharge characteristics of nanocrystalline Co ₃ O ₄ powders via aerosol flame synthesis. 2011 , 192, 308-312	11
878	Synthesis and lithium electrode application of ZnO/ZnFe ₂ O ₄ nanocomposites and porously assembled ZnFe ₂ O ₄ nanoparticles. 2011 , 182, 91-97	45
877	HWCVD MoO ₃ nanoparticles and a-Si for next generation Li-ion anodes. 2011 , 519, 4495-4497	21
876	Urchin-like Co ₃ O ₄ Nanostructure and Their Electrochemical Behavior in Rechargeable Lithium Ion Battery. 2011 , 24, 343-347	2
875	Direct fabrication of integrated 3D epitaxial functional transition metal oxide nanostructures using extremely small hollow nanopillar nano-imprint metal masks. 2011 , 22, 185306	10
874	Sonochemical synthesis of single-crystalline SrSn(OH) ₆ nanowires and the performance of SrSnO ₃ nanorods used as anode materials for Li-ion battery. 2011 ,	2
873	Study on the Preparation of Nano-Cu ₂ O and its Morphology Control. 2011 , 328-330, 1355-1358	2
872	Interactions of Copper and Iron in Conversion Reactions of Nanosized Oxides with Large Variations in Iron-Copper Ratio. 2011 , 158, A1383	9
871	Electrochemical Characterization of Metal Oxynitride Thin Film as New Lithium Storage Materials. 2011 , 295-297, 912-916	3
870	Synthesis of Size- and Shape-Controlled CuO Assemblies. 2011 , 158, K69	5
869	All-solid-state thin film microbatteries fabricated by rf sputtering. 2011 ,	
868	Novel Co ₃ O ₄ /Carbon Nanofiber Composite Electrode with High Li-Storage Capacity for Lithium Ion Batteries. 2011 , 197-198, 1113-1116	5
867	Electrochemistry of ZnO[_{sub 1}][S[_{sub x}]] Thin Film with Lithium. 2011 , 158, A285	15
866	Preparation and Electrochemical Properties of NiO Thin Films by Sol-Gel. 2011 , 687, 729-733	1
865	Anomolously High Lithium Storage in Mesoporous Nanoparticulate Aggregation of Fe ³⁺ Doped Anatase Titania. 2011 , 158, A1290	24
864	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. 2011 , 26, 2665-2671	31
863	Nanostructured mesoporous materials for lithium-ion battery applications. 2011 ,	2
862	Green energy storage materials: advanced nanostructured materials for lithium-ion batteries. 2011 ,	1

861	EXCELLENT CYCLING PERFORMANCE OF THREE-DIMENSIONAL-ORDERED MACROPOROUS NiFe ₂ O ₄ AS ANODE MATERIAL FOR LITHIUM ION BATTERIES. 2011 , 04, 327-331	4
860	Synthesis and catalysis properties of NiO flower-like spheres and nanosheets: Water-induced phase transformation of nickel hydroxides. 2011 , 26, 3091-3097	15
859	SnO ₂ NANOCRYSTALLITE: NOVEL SYNTHETIC ROUTE FROM DEEP EUTECTIC SOLVENT AND LITHIUM STORAGE PERFORMANCE. 2011 , 04, 377-381	22
858	Ethanol Gas Sensor of Crabwise CuO Nanowires Prepared on Glass Substrate. 2011 , 158, J106	29
857	Synthesis and Performance of CuO with Complex Hollow Structure as Anode Material for Lithium Secondary Batteries. 2011 , 158, A814	31
856	KEY MATERIALS CHALLENGES FOR ELECTROCHEMICAL ENERGY STORAGE SYSTEMS. 2011 , 07, 11-24	2
855	Structure and optical properties of ordered mesoporous copper oxide/silica composite films. 2011 , 6, 528-538	6
854	Quantum Entanglement Channel based on Excited States in a Spin Chain. 2011 , 28, 120301	1
853	Background-independent condensed matter models for quantum gravity. 2011 , 13, 095006	19
852	Synthesis and Electrochemical Performance of NiO/Co Composite Anode Material. 2012 , 554-556, 414-419	
851	Ethanol Sensor Based on Hydrothermal Method Prepared Porous γ -Fe ₂ O ₃ Nanorods. 2012 , 476-478, 1075-1078	3
850	Self-Assembly of Bi ₂ Te ₃ -Nanoplate/Graphene-Nanosheet Hybrid by One-Pot Route and Its Improved Li-Storage Properties. 2012 , 5, 1275-1284	30
849	Tunable Nanocrystals Fabricated by Free Dealloying of Amorphous Ribbons. 2012 , 2012, 1-6	2
848	NLRP3 inflammasome activation in murine alveolar macrophages and related lung pathology is associated with MWCNT nickel contamination. 2012 , 24, 995-1008	87
847	The Impacts of Graphene Nanosheets and Manganese Valency on Lithium Storage Characteristics in Graphene/Manganese Oxide Hybrid Anode. 2012 , 2012, 1-10	7
846	CuO Microspheres Synthesized via the Easy Hydrothermal Method. 2012 , 159, 84-87	1
845	Electrochemically Controlled Nanopore and Crystal Structure Evolution in Zinc Oxide Nanorods. 2012 , 159, A2143-A2147	8
844	Highly reversible conversion-capacity of MnO _x -loaded ordered mesoporous carbon nanorods for lithium-ion battery anodes. 2012 , 22, 17870	63

843	Size Effects in the Electrochemical Alloying and Cycling of Electrodeposited Aluminum with Lithium. 2012 , 159, A688-A695	38
842	Synthesis of Nanoflower Precursors in Two-Phase System via Microwave-Assisted Hydrothermal Method and their In Situ Thermal Conversion to NiO. 2012 , 20, 43-52	3
841	Influence of nanosize and thermodynamics on lithium storage in insertion and conversion reactions. 2012 ,	1
840	Thin Film Electrodes of Prussian Blue Analogues with Rapid Li^+ Intercalation. 2012 , 5, 041801	33
839	Dry Synthesis and Photoresponse of Single-Crystalline Cu ₂ O Nanorod Arrays. 2012 , 159, K73-K77	6
838	Azide-alkyne Huisgen [3+2] cycloaddition using CuO nanoparticles. 2012 , 17, 13235-53	41
837	ELECTROCHEMICAL PROPERTY OF LiMn ₂ O ₄ IN OVER-DISCHARGED CONDITIONS. 2012 , 05, 1250028	15
836	Scope of nanotechnology-based radiation therapy and thermotherapy methods in cancer treatment. 2012 , 12, 998-1015	29
835	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. 2012 , 51, 107301	6
834	Growth of $\sim 5 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ mobility, p-type Copper(I) oxide (Cu ₂ O) films by fast atmospheric atomic layer deposition (AALD) at 225°C and below. 2012 , 2, 042179	57
833	Strategies for Synthesizing Conductive Spinel Cobalt Oxide Nanoparticles for Energy Storage Applications. 2012 , 159, A1934-A1940	14
832	V ₂ O ₅ Hollow Nanospheres: A Lithium Intercalation Host with Good Rate Capability and Capacity Retention. 2012 , 159, A618-A621	46
831	Fe-Fe ₃ O ₄ Composite Electrode for Lithium Secondary Batteries. 2012 , 159, A325-A329	18
830	Atomic layer deposition for electrochemical energy generation and storage systems. 2012 , 30, 010803	52
829	3D Self-Supported Nanoarchitected Arrays Electrodes for Lithium-Ion Batteries. 2012 , 2012, 1-19	34
828	Facile Synthesis of Porous-Structured Nickel Oxide Thin Film by Pulsed Laser Deposition. 2012 , 2012, 1-4	8
827	Effect of 0.5 M NaNO ₃ : 0.5 M KNO ₃ and 0.88 M LiNO ₃ : 0.12 M LiCl Molten Salts, and Heat Treatment on Electrochemical Properties of TiO ₂ . 2012 , 159, A762-A769	65
826	SYNTHESIS AND CHARGE/DISCHARGE PROPERTIES OF POROUS CO ₃ O ₄ NANOROD BUNDLE ELECTRODE. 2012 , 07, 1250036	1

825	Effect of pH on structure, morphology and optical properties of nanosized cupric oxide prepared by a simple hydrolysis method. 2012 , 103, 737-742	
824	Cuprous Oxide/Copper Particles Prepared by a Facile Wet-Chemical Reduction Approach as Anode Material for Li Ion Batteries. 2012 , 509, 28-35	3
823	Hot-wire substoichiometric tungsten oxide films deposited in hydrogen environment with n-type conductivity. 2012 , 45, 445101	3
822	Sonochemical Synthesis of Pt Ion Substituted TiO ₂ (Ti _{0.9} Pt _{0.1} O ₂): A High Capacity Anode Material for Lithium Battery. 2012 , 159, A1189-A1197	4
821	MnO Powder as Anode Material for Lithium Ion Battery. 2012 , 460, 78-81	
820	Synthesis and Characterization of Star-Like Copper Oxide (CuO) with Submicrometer Sizes. 2012 , 465, 186-191	
819	Designing Energy-Storage Devices from Textile Materials. 2012 , 441, 231-234	3
818	Facile synthesis of hetero-structured few-layer MoS ₂ -coated MoO ₂ as superior anode materials of lithium ion batteries. 2021 , 851, 156726	4
817	Interface coupling 2D/2D SnSe ₂ /graphene heterostructure as long-cycle anode for all-temperature lithium-ion battery. 2021 , 407, 126973	21
816	A review of spinel lithium titanate (Li ₄ Ti ₅ O ₁₂) as electrode material for advanced energy storage devices. 2021 , 47, 5870-5895	17
815	Compact Co ₃ O ₄ /Co in-situ nanocomposites prepared by pulsed laser sintering as anode materials for lithium-ion batteries. 2021 , 58, 386-390	17
814	Atomic Co/Ni active sites assisted MOF-derived rich nitrogen-doped carbon hollow nanocages for enhanced lithium storage. 2021 , 420, 127583	14
813	Facile preparation of ZnO quantum dots@porous carbon composites through direct carbonization of metal-organic complex for high-performance lithium ion batteries. 2021 , 31, 323-329	4
812	Understanding the High-Performance Anode Material of CoC ₂ O ₄ ·2H ₂ O Microrods Wrapped by Reduced Graphene Oxide for Lithium-Ion and Sodium-Ion Batteries. 2021 , 27, 993-1001	9
811	Inhibitive role of crystal water on lithium storage for multilayer FeC ₂ O ₄ ·xH ₂ O anode materials. 2021 , 404, 126464	12
810	Recent developments on anode materials for magnesium-ion batteries: a review. 2021 , 40, 290-308	24
809	A Cyclized Polyacrylonitrile Anode for Alkali Metal Ion Batteries. 2021 , 60, 1355-1363	16
808	Twin Boundary and Fivefold Twins in Nickel Oxide. 2021 , 258, 2000377	1

807	A Cyclized Polyacrylonitrile Anode for Alkali Metal Ion Batteries. 2021 , 133, 1375-1383	2
806	Battery materials for low-cost electric transportation. 2021 , 42, 57-72	29
805	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. 2021 , 4, 363-391	15
804	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. 2021 , 405, 126820	4
803	Directly embedded Ni ₃ S ₂ /Co ₉ S ₈ @S-doped carbon nanofiber networks as a free-standing anode for lithium-ion batteries. 2021 , 5, 166-174	6
802	First-principles study of BC ₇ monolayer an ultra-high capacity anode for lithium-ion and sodium-ion batteries applications. 2021 , 257, 123751	2
801	Crucial role of water content on the electrochemical performance of Ni(OH) ₂ as an anode material for lithium-ion batteries. 2021 , 27, 65-74	8
800	Synthesis of N-doped straw sheaf-like porous MnO@C composite as anode of advanced lithium-/sodium-ion batteries. 2021 , 27, 551-559	3
799	Sonochemical synthesis and structural characterization of a new three mono-nuclear cobalt(II) complex, to produce tricobalt tetroxide as an effective heterojunction catalyst. 2021 , 1229, 129500	2
798	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. 2021 , 47, 4404-4425	47
797	Synthesis and electrochemical properties of nickel oxide as anodes for lithium-ion batteries. 2021 , 883, 114875	3
796	Mn ₃ O ₄ encapsulated in hollow carbon spheres coated by graphene layer for enhanced magnetization and lithium-ion batteries performance. 2021 , 217, 119399	5
795	Design of all-solid-state hybrid supercapacitor based on mesoporous CoSnO ₃ @RGO nanorods and B-doped RGO nanosheets grown on Ni foam for energy storage devices of high energy density. 2021 , 541, 148354	5
794	Studies on All-Solid Electrochromic Devices Fabricated by a Bilayered Assembly of Hydrated Vanadium Pentoxide and PEDOT:PSS Coatings. 2021 , 22, 100860	0
793	Synthesis of ternary SnO ₂ /MoO ₃ /C composite with nanosheet structure as high-capacity, high-rate and long-lifetime anode for lithium-ion batteries. 2021 , 47, 9303-9309	6
792	NMR evidence for the charge-discharge induced structural evolution in a Li-ion battery glass anode and its impact on the electrochemical performances. 2021 , 80, 105589	11
791	Hollow core-shell structured CNT/PAN@Co ₉ S ₈ @C coaxial nanocables as high-performance anode material for lithium ion batteries. 2021 , 853, 157354	8
790	Controllable SnO ₂ /ZnO@PPy hollow nanotubes prepared by electrospinning technology used as anode for lithium ion battery. 2021 , 150, 109861	10

789	Novel Core-Dual Shell Si@MoO ₂ @C Nanoparticles as Improved Anode Materials for Lithium-Ion Batteries. 2021 , 8, 675-680	6
788	All-Solid-State Lithium Batteries with Sulfide Electrolytes and Oxide Cathodes. 2021 , 4, 101-135	65
787	MoO ₂ /C hybrid synthesized by a facile molten-salt-assisted approach for high-performance lithium-ion batteries. 2021 , 45, 6418-6425	1
786	Carbon materials for ion-intercalation involved rechargeable battery technologies. 2021 , 50, 2388-2443	79
785	One-step construction of MoO ₂ uniform nanoparticles on graphene with enhanced lithium storage. 2021 , 32, 1983-1987	6
784	Uniform cobalt nanoparticles-decorated biscuit-like VN nanosheets by in situ segregation for Li-ion batteries and oxygen evolution reaction. 2021 , 536, 147982	6
783	Hierarchical porous Co ₃ O ₄ nanocages with elaborate microstructures derived from ZIF-67 toward lithium storage. 2021 , 184, 109879	13
782	Transition metal vanadates electrodes in lithium-ion batteries: A holistic review. 2021 , 35, 169-191	15
781	Dual-metal-organic frameworks derived manganese and zinc oxides nanohybrids as high performance anodes for lithium-ion batteries. 2021 , 852, 156814	15
780	Boosting sodium storage performance of Mo ₂ C via nitrogen-doped carbon sphere encapsulation and rGO wrapping. 2021 , 413, 127471	11
779	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. 2021 , 20, 76-83	197
778	Optimized pseudocapacitance of CoMn ₂ O ₄ @MoO ₃ nanomicrospheres for advanced lithium storage properties. 2021 , 56, 649-663	3
777	Nickel Metaphosphate as a Conversion Positive Electrode for Lithium-Ion Batteries. 2021 , 4, 195-204	2
776	Multi-electron Reaction Materials for High-Energy-Density Secondary Batteries: Current Status and Prospective. 2021 , 4, 35-66	33
775	Structure, modification, and commercialization of high nickel ternary material (LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ and LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂) for lithium ion batteries. 2021 , 25, 387-410	5
774	Nanomatrix of Co ₃ O ₄ @CuO nanoarray as novel electrode material for lithium-ion battery anode. 2021 , 18, 393-406	
773	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. 2021 , 19, 375-439	100
772	Nanoengineering of 2D MXene-Based Materials for Energy Storage Applications. 2021 , 17, e1902085	193

771	A phthalocyanine-grafted MA-VA framework polymer as a high performance anode material for lithium/sodium-ion batteries. 2021 , 50, 9858-9870	2
770	Electrospun Nanostructured Iron Oxide Carbon Composites for High-Performance Lithium Ion Batteries. 2021 , 235-276	
769	ZnO-Based Conversion/Alloying Negative Electrodes for Lithium-Ion Batteries: Impact of Mixing Intimacy. 2021 , 9, 2001084	2
768	Mass spectrometry for multi-dimensional characterization of natural and synthetic materials at the nanoscale. 2021 , 50, 5243-5280	7
767	A universal electrochemical lithiation-delithiation method to prepare low-crystalline metal oxides for high-performance hybrid supercapacitors.. 2021 , 11, 30407-30414	1
766	In-depth study of structural, morphological and electronic changes during conversion and alloying of ITO. 2021 , 9, 10447-10457	1
765	Commercialisation of high energy density sodium-ion batteries: Faradion's journey and outlook. 2021 , 9, 8279-8302	24
764	Relationship between tin environment of SnO ₂ nanoparticles and their electrochemical behaviour in a lithium ion battery. 2021 , 257, 123461	3
763	Hydro thermal synthesis and electrochemical characterization of (V ₁ /2Sb ₁ /2Sn) ₄ O ₄ and (Fe ₁ /2Sb ₁ /2Sn) ₄ O ₄ as energy storage materials. 2021 ,	0
762	Interfacial Design on Graphene-Hematite Heterostructures for Enhancing Adsorption and Diffusion towards Superior Lithium Storage. 2021 , 11,	2
761	Effect of Different Electrolytes on MnO ₂ Anodes in Lithium-Ion Batteries. 2021 , 125, 1221-1233	3
760	Crossover of positive and negative magnetoconductance in composites of nanosilica glass containing dual transition metal oxides.. 2021 , 11, 16106-16121	2
759	Insoluble small-molecule organic cathodes for highly efficient pure-organic Li-ion batteries. 2021 , 23, 6090-6100	0
758	Research progress in transition metal chalcogenide based anodes for K-ion hybrid capacitor applications: a mini-review.. 2021 , 11, 25450-25460	12
757	Egyptian blue: from pigment to battery electrodes.. 2021 , 11, 19885-19889	1
756	Enhancing Co/CoVO Li-ion battery anode performances via 2D-2D heterostructure engineering. 2021 , 13, 13065-13071	1
755	Ultrahigh capacity and cyclability of dual-phase TiO ₂ nanowires with low working potential at room and subzero temperatures. 2021 , 9, 9256-9265	6
754	Heterostructures of titanium-based MXenes in energy conversion and storage devices. 2021 , 9, 8395-8465	10

753	Strategic synthesis of sponge-like structured SiO _x @C@CoO multifunctional composites for high-performance and stable lithium-ion batteries. 2021 , 9, 18440-18453	2
752	The Potential of MOFs in the Field of Electrochemical Energy Storage. 2021 , 111-154	0
751	Graphene-Based Materials with Tailored Nanostructures for Lithium-Ion Batteries. 2021 , 473-490	
750	Urchin-like MnO/C microspheres as high-performance lithium-ion battery anode. 2021 , 27, 1423-1428	3
749	Materials and Manufacturing Methods for Advanced Li-ion Batteries. 2021 , 69-104	
748	Laser ablation of pristine Fe foil for constructing a layer-by-layer SiO/FeO/Fe integrated anode for high cycling-stability lithium-ion batteries. 2021 , 23, 10365-10376	2
747	Electrospun Nanostructured Iron Oxides for High-Performance Lithium Ion Batteries. 2021 , 277-318	1
746	MXene-encapsulated hollow FeO nanochains embedded in N-doped carbon nanofibers with dual electronic pathways as flexible anodes for high-performance Li-ion batteries. 2021 , 13, 4624-4633	20
745	Zinc oxide as promising anode material for Li-ion battery. 2021 , 575-603	
744	Interfacial Design and Assembly for Flexible Energy Electrodes with Highly Efficient Energy Harvesting, Conversion, and Storage. 2021 , 11, 2002969	7
743	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. 2021 , 5, 3298-3321	15
742	ZnVO/NC hybrid microspheres self-assembled by layered porous nanosheets as a superior anode material for lithium/sodium-ion batteries. 2021 , 50, 4017-4027	3
741	Creating self-assembled arrays of mono-oxo (MoO) species on TiO(101) via deposition and decomposition of (MoO) oligomers. 2021 , 118,	5
740	Well-dispersed tin nanoparticles encapsulated in amorphous carbon tubes as high-performance anode for lithium ion batteries. 2021 , 32, 145402	4
739	Strategies, design and synthesis of advanced nanostructured electrodes for rechargeable batteries. 2021 , 5, 5897-5931	4
738	Unoccupied 3d orbitals make Li-unalloyable transition metals usable as anode materials for lithium ion batteries. 2021 , 9, 17353-17365	0
737	Mesoporous Mo ₄ V ₆ O ₂₅ as high electrochemical performance anode material for lithium ion battery. 2021 , 32, 1593-1601	
736	Fe ₃ O ₄ nanomaterials: synthesis, optical and electrochemical properties. 2021 , 57, 469-477	0

- 735 Cobalt oxide nanoparticles induce oxidative stress and alter electromechanical function in rat ventricular myocytes. **2021**, 18, 1 2
- 734 Lithium storage performance of $\text{Ni}(\text{OH})_2$ regulated by partial interlayer anion exchange. **2021**, 27, 1125-1135 1
- 733 Dual carbon-confined SbSe nanoparticles with pseudocapacitive properties for high-performance lithium-ion half/full batteries. **2021**, 50, 6642-6649 3
- 732 Improved Electrochemical Properties of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanopowders (NPs) via Addition of LiAlO_2 and Li_6SiO_8 Polymer Electrolytes, Derived from Agricultural Waste. **2021**, 4, 1894-1905 1
- 731 Structure and reaction mechanism of binary Ni-Al oxides as materials for lithium-ion battery anodes. **2021**, 50, 14176-14186 1
- 730 High-entropy energy materials: challenges and new opportunities. **2021**, 14, 2883-2905 73
- 729 The Electrochemical Tuning of Transition Metal-Based Materials for Electrocatalysis. **2021**, 4, 146-168 12
- 728 The effects of substitutional doping on Cu vacancy formation in $\text{CuO}(111)$: a density functional theory study. **2021**, 23, 8800-8808 1
- 727 A robust, freeze-resistant and highly ion conductive ionogel electrolyte towards lithium metal batteries workable at $-30\text{ }^\circ\text{C}$. **2021**, 23, 6775-6782 2
- 726 Review Betavoltaic Cell: The Past, Present, and Future. **2021**, 10, 027005 6
- 725 Fabrication of screen-printed electrodes: opportunities and challenges. **2021**, 56, 8951-9006 17
- 724 Porous spinel-type $(\text{Al}_{0.2}\text{CoCrFeMnNi})_{0.58}\text{O}_4$ -high-entropy oxide as a novel high-performance anode material for lithium-ion batteries. **2021**, 56, 8127-8142 12
- 723 Electrophoretic Deposition of Out-of-Plane Oriented Active Material for Lithium-Ion Batteries. **2021**, 9, 2000936 2
- 722 Electrochemical performance of SnO_2 rods and SnO_2/rGO , $\text{SnO}_2/\text{MWCNTs}$ composite materials as an anode for lithium-ion battery application-A comparative study. **2021**, 32, 7619-7629 1
- 721 Co-activated Conversion Reaction of $\text{MoO}:\text{CoMoO}$ as a Negative Electrode Material for Lithium-Ion Batteries. **2021**, 13, 9814-9819 2
- 720 Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries. **2021**, 33, e2006629 39
- 719 Low-Cost Regulating Lithium Deposition Behaviors by Transition Metal Oxide Coating on Separator. **2021**, 31, 2007255 6
- 718 Model Studies on the Formation of the Solid Electrolyte Interphase: Reaction of Li with Ultrathin Adsorbed Ionic-Liquid Films and $\text{Co O}(111)$ Thin Films. **2021**, 22, 441-454 6

717	Nickel Cobalt Oxide Nanoneedles for Electrochromic Glucose Sensors. 2021 , 4, 2143-2152	30
716	Hollow carbon spheres loaded with uniform dispersion of copper oxide nanoparticles for anode in lithium-ion batteries. 2021 , 853, 156700	10
715	A 1D/1D interconnected MnO ₂ nanowires network as high-performance and high energy efficiency cathode material for aqueous zinc-ion batteries. 2021 , 370, 137740	17
714	Eco-friendly prepared mesoporous carbon encapsulated SnO ₂ nanoparticles for high-reversible lithium-ion battery anodes. 2021 , 314, 110853	4
713	CoS Nanosheet Coupled CuS Nanorod Heterostructure as Efficient Catalyst for Overall Water Splitting. 2021 , 13, 9865-9874	34
712	Real Time Observation of Lithium Insertion into Pre-Cycled Conversion-Type Materials. 2021 , 11,	3
711	In Situ Electrode Stress Monitoring: An Effective Approach to Study the Electrochemical Behavior of a Lithium Metal Anode. 2021 , 4, 3993-4001	5
710	Boosting the charge transfer efficiency of metal oxides/carbon nanotubes composites through interfaces control. 2021 , 489, 229501	4
709	Continuous fast pyrolysis synthesis of TiO ₂ /C nanohybrid lithium-ion battery anode. 2021 , 2, 1770-1778	1
708	Facile preparation of hierarchical CuO nanostructures as a integrate binder-free anode for high-performance lithium-ion batteries. 2021 , 1802, 022040	0
707	Facile synthesis of a binder-free 3D Ni/NiO microwire network with a nanostructured fiber surface for a negative electrode in Li-ion battery. 2021 , 51, 815-828	2
706	Aluminum textile-based binder-free nanostructured battery cathodes using a layer-by-layer assembly of metal/metal oxide nanoparticles. 2021 , 8, 011405	9
705	Li-Rich Li ₂ [Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ for Anode-Free Lithium Metal Batteries. 2021 , 133, 8370-8377	0
704	Evidence for the Coexistence of Polysulfide and Conversion Reactions in the Lithium Storage Mechanism of MoS ₂ Anode Material. 2021 , 33, 1935-1945	2
703	Supercritical CO Assisted Solvothermal Preparation of CoO/Graphene Nanocomposites for High Performance Lithium-Ion Batteries. 2021 , 11,	4
702	Local Structure and Electronic State of Amorphous Nanomaterials. 2021 , 23-59	
701	Facile One-Step Solution-Phase Route to Synthesize Hollow Nanoporous Cu ₂ O Microcages on 3D Copper Foam for Superior Li Storage. 2021 , 9, 4363-4370	5
700	Li-Rich Li [Ni Co Mn]O for Anode-Free Lithium Metal Batteries. 2021 , 60, 8289-8296	21

699	Low voltage colour modulation in hydrothermally grown Ni-Co nanoneedles for electrochromic application. 2021 , 4, 75-80	2
698	Mapping the knowledge domains of new energy vehicle safety: Informetrics analysis-based studies. 2021 , 35, 102275	3
697	A Comprehensive Review on Metal-Oxide Nanocomposites for High-Performance Lithium-Ion Battery Anodes. 2021 , 35, 6420-6442	19
696	Janus Graphene Oxide Sheets with FeO Nanoparticles and Polydopamine as Anodes for Lithium-Ion Batteries. 2021 , 13, 14786-14795	12
695	Pre-Lithiation Strategies for Next-Generation Practical Lithium-Ion Batteries. 2021 , 8, e2005031	33
694	Smart Cells. 2021 , 263-300	
693	Materials and Fabrication. 15-65	
692	Fluorine-Induced Surface Metallization for Ammonia Synthesis under Photoexcitation up to 1550 nm. 2021 , 133, 11273-11279	
691	Understanding the Enhanced Capacitive Desalination Performance of Spherical ZnCo ₂ O ₄ Electrode. 2021 , 8, 2100125	0
690	Encapsulating manganese oxide nanoparticles within conducting polypyrrole via in situ redox reaction and oxidative polymerization for long-life lithium-ion batteries. 2021 , 40, 2415-2423	5
689	Fluorine-Induced Surface Metallization for Ammonia Synthesis under Photoexcitation up to 1550 nm. 2021 , 60, 11173-11179	6
688	Structure, morphology and capacitance characteristics of Mn ₂ (OH) ₃ Cl obtained by the controlled droplet rate precipitation. 2021 , 296, 121994	2
687	Recent Progress in Polyanionic Anode Materials for Li (Na)-Ion Batteries. 2021 , 4, 447-472	18
686	Designing carbon-supported Fe ₂ O ₃ anodes for lithium ion batteries. 2021 , 51, 917-931	2
685	Synthesis and Electrochemical Performances of MnV ₂ O ₆ /rGO Nanocomposite as New Anode Material for Lithium-Ion Battery Application. 2021 , 13, 642-649	2
684	Gradual transmittance controllable device via ion intercalation for spatial light modulators. 2021 , 11, 1497	
683	Double shell Cu ₂ O hollow microspheres as sensing material for high performance n-propanol sensor. 2021 , 333, 129540	10
682	Facile synthesis and electrochemical performance of a copper-doped anode material Cu _{0.5} Ni _{0.5} Co ₂ O ₄ for lithium-ion batteries. 2021 , 27, 2803-2812	1

681	Fe ₂ O ₃ -encapsulated SiC nanowires with superior electrochemical properties as anode materials for the lithium-ion batteries. 2021 , 27, 2431-2444	1
680	ZnCo ₂ O ₄ Nanorods Coated with Annealed Polypyrrole/Poly(vinyl alcohol) Composites as Anode Materials for Lithium-Ion Batteries. 2021 , 4, 4496-4503	1
679	New Insights on the Conversion Reaction Mechanism in Metal Oxide Electrodes for Sodium-Ion Batteries. 2021 , 11,	2
678	Bimetallic Antimony-Vanadium Oxide Nanoparticles Embedded in Graphene for Stable Lithium and Sodium Storage. 2021 , 13, 21127-21137	1
677	Recent developments in centrifugally spun composite fibers and their performance as anode materials for lithium-ion and sodium-ion batteries. 2021 , 266, 115024	7
676	Solvents adjusted pure phase CoCO ₃ as anodes for high cycle stability. 2021 , 10, 509-519	6
675	Electronic correlations at paramagnetic (001) and (110) NiO surfaces: Charge-transfer and Mott-Hubbard-type gaps at the surface and subsurface of (110) NiO. 2021 , 103,	0
674	Non-Carbonaceous Negative Electrodes in Sodium Batteries. 2021 , 147-204	0
673	Novel hierarchical yolk-shell Ni(OH) ₂ /Mn ₂ O ₃ microspheres as high specific capacitance electrode materials for supercapacitors. 2021 , 15, 1322-1331	1
672	In-situ construction of g-C ₃ N ₄ /Mo ₂ CT _x hybrid for superior lithium storage with significantly improved Coulombic efficiency and cycling stability. 2021 , 410, 128349	37
671	Asymmetric Reaction Pathways of Conversion-Type Electrodes for Lithium-Ion Batteries. 2021 , 33, 3515-3523	3
670	Optimizing interphase structure to enhance electrochemical performance of high voltage LiNi _{0.5} Mn _{1.5} O ₄ cathode via anhydride additives. 2021 , 410, 128422	18
669	Interconnected porous N-doped carbon coated cobalt/iron oxides core shell nanocomposites for superior lithium storage anode. 2021 , 862, 158044	1
668	Facile synthesis of a scale-like NiO/Ni composite anode with boosted electrochemical performance for lithium-ion batteries. 2021 , 862, 158012	4
667	Functionalized carbon dots for advanced batteries. 2021 , 37, 8-39	35
666	Regulating alkali metal deposition behavior via Li/Na-philic Ni nanoparticles modified 3D hierarchical carbon skeleton. 2021 , 412, 128661	6
665	Structural Evolution of Layered Manganese Oxysulfides during Reversible Electrochemical Lithium Insertion and Copper Extrusion. 2021 , 33, 3989-4005	1
664	In Silico Designing of Nanoclusters with a Late Transition Metal for NO Adsorption: An Efficient Approach toward the Development of NO Sensing Materials. 2021 , 6, 14191-14199	15

663	Scallion root biotemplate synthesis of mesoporous Co ₃ O ₄ hierarchical structure for high capacity and long-lived lithium ion battery anode. 2021 , 863, 158772	7
662	Natural Self-Confined Structure Effectively Suppressing Volume Expansion toward Advanced Lithium Storage. 2021 , 13, 24634-24642	1
661	Electrochemical Driven Phase Segregation Enabled Dual-Ion Removal Battery Deionization Electrode. 2021 , 21, 4830-4837	6
660	REGULARITIES FOR THE PREPARATION OF POLYMER COMPOSITES WITH NANOSIZED PARTICLES OF COBALT OXIDE. 2021 , 56-60	
659	Novel synthesis and electrochemical investigations of ZnO/C composites for lithium-ion batteries. 2021 , 56, 13227	1
658	First-Principles Study of the Surfaces and Equilibrium Shape of Discharge Products in Li-Air Batteries. 2021 , 13, 24984-24994	0
657	Effect of microstructure and contact interfaces of cobalt MOFs-derived carbon matrix composite electrode materials on lithium storage performance. 2021 , 222, 119914	0
656	Octahedral Fe ₃ O ₄ /FeS composite synthesized by one-pot hydrothermal method as a high-performance anode material for lithium-ion batteries. 2021 , 864, 158796	8
655	Reviewing the cases of Nanoscale Heterogeneity in Ceramics: Boon or Bane?. 2021 , 16, 101109	1
654	The effects of nanostructures on lithium storage behavior in Mn ₂ O ₃ anodes for next-generation lithium-ion batteries. 2021 , 493, 229682	7
653	Nanostructured arrays for metal _{ion} battery and metal _{air} battery applications. 2021 , 493, 229722	8
652	Rationalized atomic/clusters dispersion of Fe/Se/Al on interconnected N-doped carbon nanofibers for fast sodiation. 2021 , 411, 128420	2
651	Electrodes for Flexible&Stretchable Supercapacitors. 2021 , 485-531	
650	Nano-Co ₃ O ₄ -catalyzed microwave-assisted one-pot synthesis of some seleno [2, 3-b] pyridine/quinoline derivatives. 2021 , 47, 3719-3732	5
649	Constructive designing of ternary metal oxide as an anode material for high performance lithium-ion batteries. 2021 , 45, 16592-16602	1
648	Investigation on the Overlithiation Mechanism of LiCoO ₂ Cathode for Lithium Ion Batteries. 2021 , 168, 050516	3
647	A thermodynamically consistent gradient theory for diffusion&reaction&deformation in solids: Application to conversion-type electrodes. 2021 , 151, 104368	0
646	Silver Iodide as a Host Material of Sulfur for Li& Battery.	1

645	Synthesis of CuCo ₂ O ₄ nanoparticles as an anode material with high performance for lithium-ion batteries. 2021 , 32, 18765-18776	2
644	Isovalent vs. aliovalent transition metal doping of zinc oxide lithium-ion battery anodes In-depth investigation by ex situ and operando X-ray absorption spectroscopy. 2021 , 20, 100478	3
643	Facile in situ co-precipitation synthesis of CuO/NiO/rGO nanocomposite for lithium-ion battery anodes. 2021 , 32, 18043-18056	1
642	Rational Design and Advance Applications of Transition Metal Oxides.	3
641	Dark-field microscopic real-time monitoring the growth of Au on CuO nanocubes for ultra-sensitive glucose detection. 2021 , 1162, 338503	5
640	Electrochemical behavior of negative electrode from Co(OH) ₂ and graphene for lithium batteries. 2021 , 32, 16139-16152	1
639	Electrophoretically deposited bismuth iron oxide as dual role anode material for both lithium and sodium-ion batteries. 2021 , 27, 102358	2
638	Amorphous porous germanium anode with variable dimension for lithium ion batteries. 2021 , 56, 15258-15267	1
637	Silicon-doped FeOOH nanorods@graphene sheets as high-capacity and durable anodes for lithium-ion batteries. 2021 , 550, 149330	9
636	Chemical Heterointerface Engineering on Hybrid Electrode Materials for Electrochemical Energy Storage.. 2021 , 5, e2100444	21
635	Improving the cycle performance of MgFe ₂ O ₄ anode material based on the spatial limiting effect. 2021 , 865, 158668	1
634	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. 2021 , 13, 27270-27277	7
633	Spiral Graphene Coupling Hierarchically Porous Carbon Advances Dual-Carbon Lithium Ion Capacitor. 2021 , 38, 528-534	8
632	Hydrothermal synthesis of nano spheroid-like ZnMn ₂ O ₄ materials as high-performance anodes for lithium-ion batteries. 2021 , 45, 18081-18090	5
631	Bayesian Modeling Coherenced Green Synthesis of NiO Nanoparticles Using Camellia sinensis for Efficient Antimicrobial Activity. 2021 , 11, 825-837	4
630	Potential anodic applications of 2D MoS ₂ for K-ion batteries. 2021 , 865, 158782	7
629	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of CoO. 2021 , 13, 28171-28180	7
628	Three-dimensional porous Co ₃ O ₄ hexagonal plates grown on nickel foam as a high-capacity anode material for lithium-ion batteries. 2021 , 551, 148942	8

627	UV Photochromism in Transition Metal Oxides and Hybrid Materials. 2021 , 17, e2100621	14
626	Link between Structural and Optical Properties of CoFe_3O_4 Nanoparticles and Thin Films with Different Co/Fe Ratios. 2021 , 125, 14356-14365	3
625	A Cellulose-Derived Nanofibrous MnO-TiO-Carbon Composite as Anodic Material for Lithium-Ion Batteries. 2021 , 14,	
624	Fundamentals, status and promise of sodium-based batteries.	116
623	Two advantages by a single move: Core-shell electrode design for ultrahigh-rate capacity and ultralong-life cyclability of lithium ion batteries. 2021 , 216, 108883	6
622	Synthesis and identification of structural, optical, electrical, and magnetic properties of novel $\text{ZnFe}_2\text{O}_4/\text{NiO}$ nanocomposites. 2021 , 96, 105802	2
621	Facile Preparation of Fe_3O_4 Nanoparticles/Reduced Graphene Oxide Composite as an Efficient Anode Material for Lithium-Ion Batteries. 2021 , 11, 836	0
620	Synthesis of a High-Capacity $\text{FeO}@C$ Conversion Anode and a High-Voltage LiNiMnO Spinel Cathode and Their Combination in a Li-Ion Battery. 2021 , 4, 8340-8349	2
619	Low-temperatures synthesis of CuS nanospheres as cathode material for magnesium second batteries. 2021 ,	0
618	Metastable V_2O_3 Embedded in 2D N-doped Carbon Facilitates Ion Transport for Stable and Ultrafast Sodium-Ion Storage. 2021 , 131156	3
617	Black Phosphorus/Polymers: Status and Challenges. 2021 , 33, e2100113	10
616	Calcination-Free Synthesis of Well-Dispersed and Sub-10 nm Spinel Ferrite Nanoparticles as High-Performance Anode Materials for Lithium-Ion Batteries: A Case Study of CoFe_2O_4 . 2021 , 27, 12900-12909	3
615	Alkoxide hydrolysis in-situ constructing robust trimanganese tetraoxide/graphene composite for high-performance lithium storage. 2021 , 594, 531-539	2
614	A Theoretical Framework of Zinc-Decorated Inorganic MgO Nanoclusters for Efficient COCl_2 Adsorption: A Step Forward toward the Development of COCl_2 Sensing Materials. 2021 , 6, 19435-19444	10
613	Tailored synthesis of molybdenum-selenide/selenium/sodium-molybdate hybrid composites as a promising anode for lithium-ion and sodium-ion batteries. 2021 , 415, 128813	4
612	Synthesis of pomegranate-shaped micron ZnMn_2O_4 with enhanced lithium storage capability. 2021 , 7, 699-707	4
611	Nitrogen-doped reduced graphene oxide incorporated porous rod-like cobalt molybdate as an anode for high-capacity long-life lithium-ion batteries.	0
610	Experimental and Theoretical Study on rGO-Decorated Mo_2C Composite as the Anode Material for Lithium Ion Batteries. 2021 , 35, 12556-12568	6

609	Tuning the optical and morphological features of CuxO thin films via La doping. 2021 , 615, 413088	2
608	Investigation of Phase Transition from Critical Nucleus to Bi ₂ Te ₃ Nanoplate Based on Screw Dislocation-Driven Spiral Growth by Solvothermal Synthesis. 2100153	1
607	Microwave-assisted preparation of carbon coating layer on raspberry-shaped iron oxide particles for lithium-ion battery anodes. 2021 , 895, 115520	1
606	Modification of the Cu current collector by magnetron sputtering to improve the cycle performance of MxOy (M: Ni, Mn, Co) anodes for lithium ion batteries. 2021 , 872, 159594	2
605	A review on binder-free NiO-Ni foam as anode of high performance lithium-ion batteries. e278	1
604	Defect engineering on the defluorinated MWCNTs@SnO ₂ @N-doped carbon composite for enhanced lithium storage performance. 2021 , 47, 34242-34242	0
603	Sunlight powered degradation of pentoxifylline CsLiFeO as a green reusable photocatalyst: Mechanism, kinetics and toxicity studies. 2021 , 416, 125762	13
602	A New Germanium-Based Anode Material with High Stability for Lithium-Ion Batteries. 2021 , 9, 11883-11890	0
601	Recent Advances on Spinel Zinc Manganate Cathode Materials for Zinc-Ion Batteries. 2021 ,	2
600	Cu ₂ O/rGO as an efficient photocatalyst for transferring of nitro group to amine group under visible light irradiation. 2021 , 130, 105838	5
599	Engineering hollow cobalt oxide nanospheres with porous carbon coating for stable lithium storage. 2021 , 895, 115531	3
598	Exploration of fast ion diffusion kinetics in graphene nanoscrolls encapsulated CoSe ₂ as advanced anode for high-rate sodium-ion batteries. 2021 , 181, 69-78	10
597	Mechanochemistry coupled with MgCO ₃ one-step activation to prepare coal-based hierarchical porous carbon for supercapacitors. 2021 , 503, 230049	4
596	Quantifying Size Dependent Electron Emission from Silicon Nanowires Array. 1	0
595	Strategies to Solve Lithium Battery Thermal Runaway: From Mechanism to Modification. 1	11
594	Studies on 2D-molybdenum diselenide (MoSe ₂) based electrode materials for supercapacitor and batteries: A critical analysis. 2021 , 40, 102809	8
593	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. 2021 , 7, 2100512	1
592	Formation, Structural and Morphological Characteristics of Porous Zn/ZnO and Zn/ZnO/NiO Nanosystems. 2021 , 43, 613-627	

- 591 Progress in Iron Oxides Based Nanostructures for Applications in Energy Storage. **2021**, 16, 138 6
- 590 Influence mechanism of Nano-Fe₂O₃ on amorphous carbon graphitisation in molecular view via ReaxFF MD simulation. **2021**, 47, 1241-1249 0
- 589 Trimetallic metal-organic framework nanoframe superstructures: A stress-buffering architecture engineering of anode material towards boosted lithium storage performance. 0
- 588 Li-ionic control of magnetism through spin capacitance and conversion. **2021**, 9
- 587 Facile route to biomass-derived 1D carbon fiber supported high-performance MnO-based nanocomposite anode material. **2021**, 29, e00322 0
- 586 Size Effects in Sodium Ion Batteries. **2021**, 2106047 7
- 585 A one-pot method to fabricate reduced graphene oxide (rGO)-coated Si@SiO_x@Bi₂O₃/Bi composites for lithium-ion batteries. **2021**, 390, 138857 3
- 584 Hierarchically structured V₂O₃/C microspheres: Synthesis, characterization, and their electrochemical properties. **2021**, 390, 138881 0
- 583 Enhanced electrochemical performance of a selectively formed V₂O₃/C composite structure for Li-ion batteries. **2021**, 389, 138685 4
- 582 Antidiabetic activity of phytosynthesized Ag/CuO nanocomposites using *Murraya koenigii* and *Zingiber officinale* extracts. **2021**, 67, 102838 2
- 581 Application of Metal Oxide Nanoparticles and their Economic Impact. **2021**, 29-65
- 580 Co-free high entropy spinel oxide anode with controlled morphology and crystallinity for outstanding charge/discharge performance in Lithium-ion batteries. **2021**, 132658 6
- 579 Lithiation phase behaviors of metal oxide anodes and extra capacities. **2021**, 2, 100543 0
- 578 High-Capacity Anode Material for Lithium-Ion Batteries with a Core-Shell NiFeO/Reduced Graphene Oxide Heterostructure. **2021**, 6, 25269-25276 3
- 577 Improved cycling performance of the micro-cubes like NiO-Co₃O₄-MnCo₂O₄ material as competent and durable anode material for energy storage and conversion in Li-ion batteries. **2021**, 27, 5043 0
- 576 Ultrafast anchored SnO₂ nanoparticles revealed capacity fade and hysteresis abated stable cycling performance for high-rate lithium-ion batteries. **2021**, 185, 608-608 0
- 575 Enhanced Structural, Optical, and Electrical Properties of PVP/ZnO Nanocomposites. 1 2
- 574 Interface engineering on cobalt selenide composites enables superior Alkali-Ion storage. **2021**, 419, 129490 4

573	Lithiation and Sodiation of Hydrogenated Silicene: A Density Functional Theory Investigation. 2021 ,	0
572	Doped and reactive silicon thin film anodes for lithium ion batteries: A review. 2021 , 506, 230194	15
571	Large-scale synthesis of few-layered copper antimony sulfide nanosheets as electrode materials for high-rate potassium-ion storage. 2022 , 608, 984-994	5
570	Unveiling the SEI layer formed on pillar-structured MXene anode towards enhanced Li-ion storage. 2021 , 202, 113988	1
569	Macrophage-Like NiSe ₂ @Ni Nanofoams As High-Performance Anode Material for Lithium-Ion Batteries. 2021 , 95, 1911-1917	
568	Self-assembled ZnO-rGO nanocomposite, a solid-state transformation to control its crystallite size. 2021 , 875, 159992	2
567	Double core-shell structure H-TiO ₂ /C/Fe ₃ O ₄ @rGO for Li ⁺ battery anodes with long cyclability. 2021 , 559, 149975	1
566	Fabrication of Mesoporous Graphene@Ag@TiO ₂ Composite Nanofibers Via Electrospinning as Anode Materials for High-Performance Li-Ion Batteries. 2150119	
565	Electrochemical Fluoridation of Manganese Oxide by Perfluorinated-Gas Conversion for Lithium-Ion Cathodes.	1
564	Co-Precipitation of Fe-Cu Bimetal Oxalates in an Aqueous Solution and Their Thermally Induced Decomposition. 2021 , 2021, 3886	
563	Carbon coating on metal oxide materials for electrochemical energy storage. 2021 , 32,	3
562	Recent advances in heterogeneous catalysts for the effective electroreduction of carbon dioxide to carbon monoxide. 2021 , 506, 230215	5
561	Upcycling of industrial iron scale waste for reutilization as anode material in lithium ion batteries. 2021 , 276, 125270	0
560	Porous nanocomposites by cotton-derived carbon/NiO with high performance for lithium-ion storage. 2021 , 874, 159788	6
559	Superior lithium-ion storage of V-doped MoO ₃ nanosheets via plasma evaporation. 2021 , 394, 139121	2
558	Microwave-assisted in-situ isomorphism via introduction of Mn into CoCo ₂ O ₄ for battery-supercapacitor hybrid electrode material. 2021 , 430, 132729	2
557	Porous Sn obtained by selective electrochemical dissolution of melt-spun Zn ₇₀ Sn ₃₀ alloys with lithium and sodium storage properties. 2021 , 877, 160319	0
556	ZnMn ₂ O ₄ spheres anchored on jute porous carbon for use as a high-performance anode material in lithium-ion batteries. 2021 , 878, 160445	10

555	ZnIn ₂ S ₄ : A promising anode material with high electrochemical performance for sodium-ion batteries. 2021 , 47, 28634-28641	2
554	Carbon-free Cu/Sb _x O _y /Sb nanocomposites with yolk-shell and hollow structures as high-performance anodes for lithium-ion storage. 2021 , 878, 160447	3
553	Electronic state changes of Cu nanoparticles on rutile TiO ₂ (110) by O ₂ and CO exposure. 2021 , 252, 147123	
552	One-pot hydrothermal synthesis of N-rGO supported Fe ₂ O ₃ nanoparticles as a superior anode material for lithium-ion batteries. 2021 , 368, 115693	7
551	Fabrication of hollow SnO ₂ /ZnS@C nanocubes as anode materials for advanced lithium-ion battery. 2021 , 878, 160375	8
550	Graphene-like BSi as a promising anode material for Li- and Mg-ion batteries: A first principle study. 2021 , 563, 150278	6
549	Mesoporous MoO ₂ -carbon nanocomposites synthesized by triconstituent co-assembly approach for high performance lithium-ion batteries. 2021 , 327, 111427	1
548	Reactive surface coating of metallic lithium and its role in rechargeable lithium metal batteries. 2021 , 397, 139270	2
547	A novel synthetic strategy towards NaCl-type Ni _x Co _{1-x} O solid solution nanoplatelets encapsulated in N-doped carbon for enhanced lithium-ion storage. 2021 , 883, 160694	0
546	3D tremella-like nitrogen-doped carbon encapsulated few-layer MoS ₂ for lithium-ion batteries. 2021 , 601, 594-603	4
545	Recent progress on selenium-based cathode materials for rechargeable magnesium batteries: A mini review. 2021 , 91, 168-177	5
544	Effect of TiC surface oxide overlayer on the control of Li O behavior in lithium-oxygen batteries: Implications for cathode catalyst design. 2021 , 567, 150785	0
543	Investigations on the electrochemical characteristics of electrophoretically deposited NiTiO ₃ negative electrode for lithium-ion rechargeable cells. 2021 , 158, 110239	3
542	First principles predictions of Na and K storage in layered SnSe ₂ . 2021 , 566, 150522	2
541	Phthalocyanine-based covalent organic frameworks as novel anode materials for high-performance lithium-ion/sodium-ion batteries. 2021 , 425, 131630	8
540	Electrochemical performance of Fe ₂ (SO ₄) ₃ as a novel anode material for lithium-ion batteries. 2021 , 886, 161238	6
539	Optical and magnetic properties of small-size core-shell Fe ₃ O ₄ @C nanoparticles. 2021 , 22, 100556	11
538	Preparation and application of 0D-2D nanomaterial hybrid heterostructures for energy applications. 2021 , 12, 100169	5

537	Multiple anionic Ni(SO ₄) _{0.3} (OH) _{1.4} nanobelts/reduced graphene oxide enabled by enhanced multielectron reactions with superior lithium storage capacity. 2021 , 426, 131863	0
536	Submicro-sized and partially etched V ₂ Al CT as an anode for lithium-ion storage. 2022 , 891, 161904	1
535	Freestanding conversion-type anode via one-pot formation for flexible Li-ion battery. 2022 , 427, 130937	1
534	Hierarchical MnVO double-layer hollow sandwich nanosheets confined by N-doped carbon layer as anode for high performance lithium-ion batteries. 2022 , 607, 538-545	2
533	Multidimensional nanobox structural carbon nanofibers with dual confined effect for boosting storage performance and electrochemical kinetics of alkali metal ion batteries. 2022 , 428, 131207	0
532	Edge sites-driven accelerated kinetics in ultrafine Fe ₂ O ₃ nanocrystals anchored graphene for enhanced alkali metal ion storage. 2022 , 428, 131204	0
531	Batteries for integrated power and CubeSats: Recent developments and future prospects. 2022 , 457-508	
530	Status and challenges facing representative anode materials for rechargeable lithium batteries. 2022 , 66, 260-294	26
529	Space and interface confinement effect of necklace-box structural FeS ₂ /WS ₂ carbon nanofibers to enhance Na ⁺ storage performance and electrochemical kinetics. 2022 , 427, 131002	3
528	Encapsulation of a Core-Shell Porous FeO@Carbon Material with Reduced Graphene Oxide for Li Battery Anodes with Long Cyclability. 2021 , 37, 785-792	7
527	Nanomaterials and nanotechnology for high-performance rechargeable battery. 2021 , 343-363	3
526	Core-Shell Structured Fe ₇ S ₈ @C Nanospheres as a High-Performance Anode Material for Potassium-Ion Batteries. 2021 , 35, 3490-3496	8
525	An overview of hydroxy-based polyanionic cathode insertion materials for metal-ion batteries. 2021 , 23, 18283-18299	1
524	Metal oxide nanofillers introduced polymer-based composites with advanced optical, optoelectronic, and electrical energy storage functionalities. 2021 , 51-89	
523	In situ construction of one-dimensional porous MnO@C nanorods for electrode materials. 2021 , 45, 4422-4426	0
522	Nanoscale anodes for rechargeable batteries: Fundamentals and design principles. 2021 , 91-157	0
521	Lithiation mechanism of W ₁₈ O ₄₉ anode material for lithium-ion batteries: Experiment and first-principles calculations. 2021 , 880, 114885	2
520	Next-generation self-powered nanosensors. 2021 , 487-515	0

519	Metal-organic framework mediated nickel doped copper ferrite for superior lithium storage. 2021 , 5, 2715-2723	6
518	Nanostructured Electrodes for Lithium Ion Batteries. 383-413	1
517	3D Chemical Cross-Linking Structure of Black Phosphorus@CNTs Hybrid as a Promising Anode Material for Lithium Ion Batteries. 2020 , 30, 1909372	46
516	Liquid-Phase Transmission Electron Microscopy for Studying Colloidal Inorganic Nanoparticles. 2018 , 30, 1703316	52
515	Origin of Fracture-Resistance to Large Volume Change in Cu-Substituted Co O Electrodes. 2018 , 30, 1704851	23
514	Ferroelectric Behavior in Exfoliated 2D Aurivillius Oxide Flakes of Sub-Unit Cell Thickness. 2020 , 6, 1901264	13
513	Sulfur-doped shaddock peel-derived hard carbons for enhanced surface capacity and kinetics of lithium-ion storage. 2020 , 44, 4026-4037	4
512	An Anode Material for Lithium-Ion Batteries Based on Oxygen-Deficient Perovskite Sr ₂ Fe ₂ O ₆ □ 2020 , 5, 5706-5711	2
511	Nanowires of Functional Oxides. 2003 , 113-137	7
510	Development of Hybrid Nanocomposites for Electronic Applications. 2009 , 231-287	4
509	Vanadium Oxide Aerogels: Enhanced Energy Storage in Nanostructured Materials. 2009 , 185-199	1
508	Encyclopedia of Sustainability Science and Technology. 2012 , 6067-6097	1
507	Anode Materials, SEI, Carbon, Graphite, Conductivity, Graphene, Reversible, Formation. 2019 , 1-71	5
506	Functional Nanomaterials for Applications in Energy Storage and Conversion. 2017 , 217-237	1
505	Dealloyed nanoporous materials for rechargeable lithium batteries. 2020 , 3, 541-580	25
504	Two-step method to synthesize spinel Co ₃ O ₄ -MnCo ₂ O ₄ with excellent performance for lithium ion batteries. 2018 , 334, 2021-2029	45
503	Graphene induced growth of Sb ₂ WO ₆ nanosheets for high-performance pseudocapacitive lithium-ion storage. 2020 , 839, 155614	9
502	Incorporation of binary metal oxide and one dimensional carbon fiber hybrid nanocomposites for electrochemical energy storage applications. 2020 , 842, 155649	7

501	Monodispersed FeCO ₃ nanorods anchored on reduced graphene oxide as mesoporous composite anode for high-performance lithium-ion batteries. 2017 , 364, 359-366	24
500	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. 2019 , 2, 1793-1802	20
499	Investigation on the Voltage Hysteresis of MnO for Lithium-Ion Battery Applications. 2021 , 13, 570-579	11
498	The Progress and Prospect of Tunable Organic Molecules for Organic Lithium-Ion Batteries. 2021 , 15, 47-80	39
497	High-performance lithium battery anodes using silicon nanowires.	1
496	CHAPTER 8:HTC-Derived Materials in Energy and Sequestration Applications. 2015 , 225-273	1
495	Synthesis of mesoporous SiO ₂ /Cu ₂ O/graphene nanocomposites and their highly efficient photocatalytic performance for dye pollutants. 2017 , 7, 29284-29294	38
494	Fabrication of Co ₃ O ₄ hierarchically superhydrophobic boat-like hollow cages at the silicon surface. 2008 , 19, 445608	17
493	Scaling behavior of thermal conductivity in single-crystalline Fe ₂ O ₃ nanowires. 2020 , 29, 084402	2
492	Structural and electronic properties of lithiated Si nanowires: An ab initio study. 2019 , 3,	3
491	Role of magnetism on transition metal oxide surfaces in vacuum and solvent. 2020 , 4,	2
490	Electronic structure of pristine and Ni-substituted LaFeO ₃ from near edge x-ray absorption fine structure experiments and first-principles simulations. 2020 , 2,	7
489	Controllability of cupric particle synthesis by linear alcohol chain number as additive and pH control in cupric acetate solution using X-ray radiolysis. 2019 , 26, 1986-1995	6
488	Solid/liquid-interface-dependent synthesis and immobilization of copper-based particles nucleated by X-ray-radiolysis-induced photochemical reaction. 2020 , 27, 1008-1014	5
487	Multi-Layer Graphene/SnO ₂ Nanocomposites as Negative Electrode Materials for Lithium-Ion Batteries. 2020 , 17,	1
486	Hybrid Nanostructured Ni(OH) ₂ /NiO for High-Capacity Lithium-Ion Battery Anodes. 2020 , 17,	2
485	ReviewRecent Advance in Self-Supported Electrocatalysts for Rechargeable Zinc-Air Batteries. 2020 , 167, 110564	11
484	Hierarchical Porous MoS ₂ /C Nanospheres Self-Assembled by Nanosheets with High Electrochemical Energy Storage Performance. 2020 , 15, 199	2

483	The supramolecular redox functions of metallomacromolecules. 2020 , 2,	3
482	Metal Oxide Nanomaterials. 2014 , 1-98	0
481	Porous Co ₃ O ₄ Nanoflakes as Anode Materials for Lithium Ion Batteries. 2016 , 06, 88-94	1
480	Standard Molar Enthalpy of Formation of Nano Cuprous Oxide with Similar Particle Sizes but Different Morphologies. 2015 , 05, 7-15	2
479	Enhancement of a Cu ₂ O/ZnO photodetector via surface plasmon resonance induced by Ag nanoparticles. 2018 , 8, 3561	11
478	In-situ synthesis of Fe ₂ O ₃ /rGO using different hydrothermal methods as anode materials for lithium-ion batteries. 2020 , 59, 477-486	3
477	Hydrothermal Synthesis, Characterization and Dielectric Properties of Zirconia Nanoparticles. 2017 , 1,	5
476	LiF-MO (M=Co, Fe, Ni) Nanocomposite Thin Film as Anode Materials for Lithium-ion Battery. 014-018	1
475	Electrochemical Study of Graphene Coated Nickel Foam as an Anode for Lithium-Ion Battery. 2018 , 20, 91	4
474	Electrodeposited Porous Tungsten Oxides as Anode Materials for Lithium Secondary Batteries. 2016 , 7, 161-169	1
473	Cobalt Oxide Nanorods Prepared by a Template-Free Method for Lithium Battery Application. 2016 , 7, 206-213	3
472	Fundamental Approach to Capacity Prediction of Si-Alloys as Anode Material for Li-ion Batteries. 2018 , 9, 51-59	7
471	Electrochemical Properties of MnF ₂ Films Fabricated by Pulsed Laser Deposition. 2010 , 25, 145-150	9
470	Rapid Low-cost Synthesis and Enhanced Electrochemical Properties of Mesoporous Mn ₃ O ₄ Nanorods. 2013 ,	2
469	Synthesis and Characterization of TiO ₂ , Cu ₂ O and Al ₂ O ₃ Aerosol Nanoparticles Produced by the Multi-Spark Discharge Generator. 2016 , 26, 123-129	7
468	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. 2011 , 3, 62	4
467	Fabrication of Fe ₃ O ₄ /Fe/Graphene nanocomposite powder by Electrical Wire Explosion in Liquid Media and its Electrochemical Properties. 2017 , 24, 308-314	1
466	Fe ₃ O ₄ Nanoparticles on MWCNTs Backbone for Lithium Ion Batteries. 2016 , 53, 376-380	24

465	Synthesis and Characterization of Co_3O_4 Thin Film. 2012 , 02, 1-7	93
464	Electrospun Titania Oxide Nanofibers Coupled Zinc Oxide Nanobranches as a Novel Nanostructure for Lithium Ion Batteries Applications. 2010 , 1, 1-3	3
463	Development of Silicon Coated by Carbon with PVDF Precursor and Its Anode Characteristics for Lithium Batteries. 2006 , 19, 636-643	1
462	Enhanced Reaction Kinetic of Fe_3O_4 -graphite Nanofiber Composite Electrode for Lithium Ion Batteries. 2014 , 15, 338-343	6
461	Synthesis of Silicon-Carbon by Polyaniline Coating and Electrochemical Properties of the Si-C Li Cell. 2006 , 27, 1175-1180	10
460	Comparative Study on Performances of Composite Anodes of SiO, Si and Graphite for Lithium Rechargeable Batteries. 2010 , 31, 1257-1261	12
459	Lithium Insertion Behavior of Nanoscopic Co_3O_4 Prepared with Avian Egg Membrane as a Template. 2011 , 32, 1204-1208	13
458	Mechanochemical Synthesis of ZnMn_2O_4 and its Electrochemical Properties as an Anode Material for Lithium-ion Batteries. 2011 , 32, 3333-3337	6
457	Single Crystalline NbO_2 Nanowire Synthesis by Chemical Vapor Transport Method. 2012 , 33, 839-842	11
456	$\text{Ni}(\text{OH})_2$ and NiO Nanostructures: Synthesis, Characterization and Electrochemical Performance. 2012 , 33, 2613-2618	36
455	Effect of Carbon Matrix on Electrochemical Performance of Si/C Composites for Use in Anodes of Lithium Secondary Batteries. 2013 , 34, 1435-1440	11
454	Ordered Mesoporous Carbon- MoO_2 Nanocomposite as High Performance Anode Material in Lithium Ion Batteries. 2014 , 35, 257-260	8
453	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. 2011 , 3, 62	2
452	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. 2013 , 5, 260	3
451	Electrodeposited Porous Tungsten Oxides as Anode Materials for Lithium Secondary Batteries. 2016 , 7, 161-169	3
450	Recent Developments in Anode Materials for Li Secondary Batteries. 2008 , 11, 211-222	5
449	Size-Controlled Cu_2O Nanocubes by Pulse Electrodeposition. 2010 , 13, 40-44	4
448	Performance of Nanosized Fe_3O_4 and CuO Supported on Graphene as Anode Materials for Lithium Ion Batteries. 2011 , 14, 239-244	2

447	Electrochemical Characteristics of $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ Negative Electrode as a Function of Crystallinity. 2012 , 15, 27-34	1
446	Reaction Route to the Crystallization of Copper Oxides. 2014 , 23, 14-26	8
445	Synthesis of Nanocrystalline Fe_2O_3 for Lithium Secondary Battery Cathode. 2002 , 70, 506-510	38
444	Investigation of Oxidation Methods of Organic Radical Polymer for Cathode Material in Lithium Ion Batteries. 2014 , 38, 827-831	1
443	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. 2012 , 51, 107301	5
442	High-entropy ceramics: Review of principles, production and applications. 2021 , 146, 100644	32
441	Investigation of Al-doped CuO thin film deposition by the thermionic vacuum arc technique. 1-6	0
440	Reliability of electrode materials for supercapacitors and batteries in energy storage applications: a review. 1	1
439	Enhancing capacity and transport kinetics of C@TiO ₂ core-shell composite anode by phase interface engineering. 2021 , 33,	
438	Layered Niobium Oxide Hydrate Anode with Excellent Performance for Lithium-Ion Batteries. 2021 , 13, 51057-51065	9
437	Impact of Cr substitution on the structural, morphological, dielectric, and electrical properties of MgCo_2O_4 nanoparticles synthesized via solid-state reaction route. 2021 , 100028	
436	Organic/Inorganic Hybrid Fibers: Controllable Architectures for Electrochemical Energy Applications. 2021 , 8, e2102859	11
435	Electrochemical activation of a diatom-derived SiO_2/C composite anode and its implementation in a lithium ion battery. 2021 , 371, 115766	1
434	Novel self-supporting multilevel-3D porous NiO nanowires with metal-organic gel coating via $\text{Ni}(\text{acac})_2$ dissolves like LiClO_4 to trigger high-performance binder-free lithium-ion batteries. 2021 , 328, 111483	1
433	Study on the Properties of Catalase Activity Using Cuprite Nano-Particles Synthesized by Hydrolysis Method. 2005 , 12, 51-55	
432	Studies on Formation Mechanisms of Monodisperse Spherical V_2O_5 Particles. 2006 , 14, 88-92	
431	Nanochemistry - Pages 215-246. 2006 , 215-246	
430	Synthesis of Cubic Cu_2O from Organic-Inorganic Hybrid. 2006 , 50, 60-64	

429 Synthesis of Silicon-Carbon by Polymer Coating and Electrochemical Properties of Si-C|Li Cell. **2006**, 9, 107-112

428 ^{57}Fe Mössbauer study of the electrochemical reaction of Li with FePy ($y = 1,2$). **2008**, 1143-1155

427 A ^{57}Fe Mössbauer spectroscopy study of iron nanoparticles obtained in situ in conversion ferrite electrodes. **2008**, 173-177

426 Battery Electrode Characteristics of Si-based Composite by Mechanical Alloying Method. **2009**, 16, 389-395

425 Synthesis and Characterization of Copper Oxide nanowires by Facile Heating under Static Air Condition. **2010**, 8, 99-102

424 Preparation and Electrochemical Properties of Tin-copper Nanocomposite Oxides Material. **2010**, 25, 729-732

423 Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries. **2011**, 237-266

422 Effect of Porosity on Cycle Performance in Three-Dimensional Disk Electrode for Li Ion Battery. **2011**, 50, 100201

421 Lithium Electroactivity of Cobalt Oxide Nanoparticles Synthesized Using Thermolysis Process. **2011**, 48, 636-640

1

420 Layered Nickel-Based Oxides on Partially Oxidized Metallic Copper Foils for Lithium Ion Batteries. **2011**, 2, 204-210

419 Fabrication of micro-nano hierarchical Cu structures on engineering substrate by hybrid laser approach and their application to photodegradation of methyl orange under visible light. **2012**,

418 Nanostructured Materials for Energy Storage Devices. **2012**, 713-738

417 3D Multiwall Carbon Nanotubes (MWCNTs) for Li-Ion Battery Anode. 35-41

416 Lithium Ion Batteries, Electrochemical Reactions in. **2013**, 239-283

415 Unfolding the role of iron in Li-ion conversion electrode materials by ^{57}Fe Mössbauer spectroscopy. **2013**, 489-495

414 Chemically derived graphene. **2014**, 223-250

1

413 Facile Synthesis of $\beta\text{-Fe}_2\text{O}_3$ Nanorods Derived from $\beta\text{-FeOOH}$ Nanorods and Its Application as Anode Materials for Rechargeable Sodium-Ion Batteries. **2014**, 883-890

412 Preparation and electrochemical properties of $\text{Co}_2\text{SnO}_4/\text{graphene}$ composites. **2014**, 63, 198201

2

- 411 Fabrication Process of Single CuO Nanowire Devices. **2014**, 23, 134-138 0
- 410 Electrolytic Synthesis of Cobalt Nanorods without Using a Supporting Template. **2014**, 24, 319-325 1
- 409 Electrochemical Property of CNT/Co₃O₄ Nanocomposite for Anode of Lithium Batteries. **2014**, 17, 187-192 1
- 408 Nanoscale Conversion Materials for Electrochemical Energy Storage. **2014**, 51-88
- 407 Nano Anode Materials for Lithium-Ion Batteries. **2014**, 127-176
- 406 Influence of Magnetic Field on Dealloying of Al-15Fe Ribbons and Formation of Fe₃O₄ Octahedra. **2015**, 241-248
- 405 Hochenergiebatterien nach Lithium-Ion. **2015**, 291-341
- 404 Influence of Magnetic Field on Dealloying of Al-15Fe Ribbons and Formation of Fe₃O₄ Octahedra. 241-248
- 403 Metal Oxide Nanoparticle Engineering for Printed Electrochemical Applications. **2016**, 783-818
- 402 Synthesis of Perforated Polygonal Cobalt Oxides using a Carbon Nanofiber Template. **2015**, 22, 350-355 2
- 401 Microwave Combustion for Modification of Transition Metal Oxides. **2016**,
- 400 Otrzymywanie grafenu .. **2016**,
- 399 Introduction. **2017**, 1-13
- 398 Introduction to Fundamental Concepts. **2018**, 1-26
- 397 Lithium Cluster (Li₄₈) Realized by a Defined Cage as Anode in Lithium-Based Batteries.
- 396 Hochenergiebatterien nach Lithium-Ion. **2018**, 301-351
- 395 Contribution of communication technology to the biomedical field. 1-1 1
- 394 General Introduction. **2019**, 1-28

393	Characterization of Modified Nickel Silicate Anode Material for Lithium-Ion Batteries. 2019 , 51-57	
392	Technology Policy and Road Map of Battery. 2019 , 1-59	
391	CHAPTER 1:New High-energy Anode Materials. 2019 , 1-25	1
390	Zero-Strain Insertion Materials for All-Solid-State Li-Ion Batteries. 2019 , 219-240	
389	One-Step Synthesis and Lithium Storage Performance of Sub-5-nm MoO ₂ -Graphene Nanocomposites. 2019 , 07, 53-60	
388	Effect of Scanning Mode on Microstructure and Physical Property of Copper Joint Fabricated by Electron Beam Welding. 2019 , 119-131	
387	Preparation and characterization of cobalt and copper oxide nanocrystals. 2019 , 37, 347-352	
386	Low-crystalline FeO _x @PPy hybridized with (Ni _{0.25} Mn _{0.75}) ₃ O ₄ @PPy to constructed high-voltage aqueous hybrid capacitor with 2.4V. 2020 , 859, 113828	
385	Multiscale Observations of Inhomogeneous Bilayer SEI Film on a Conversion-Alloying SnO Anode.. 2021 , 5, e2101111	2
384	Triggering anomalous capacity by nanoengineered ordered mesoporous structure for Co ₃ O ₄ anode material in Li-ion rechargeable batteries. 2021 , 151744	1
383	Iron-graphene based anode material for rechargeable lithium-ion batteries decorated by gold nanoparticles recovered from gold plated waste surgical tools. 2021 , 27, 101575	1
382	Magnetically separable tea leaf mediated nickel oxide nanoparticles for excellent photocatalytic activity. 2021 , 98, 100213	0
381	Carbon-emcoating architecture boosts lithium storage of Nb ₂ O ₅ . 2021 , 64, 1071-1086	0
380	Revisiting Classical Rocking Chair Lithium-Ion Battery. 2020 , 28, 1175-1191	5
379	First-principles study of ethylene carbonate adsorption on prismatic hard carbon surface: An insight into solid-electrolyte interphase formation. 2022 , 573, 151495	1
378	Amorphous three-dimensional porous Co ₃ O ₄ nanowire network toward superior OER catalysis by lithium-induced. 2022 , 893, 162287	4
377	Effect of Bi doping on the structural and optical properties of NiO thin films. 2022 , 146, 107579	0
376	Waste tire derived carbon as potential anode for lithium-ion batteries. 2022 , 288, 132438	0

- 375 Application of Metal Oxides Electrodes. **2020**, 127-149
- 374 Nanocrystalline Cellulose Supported MnO Composite Materials for High-Performance Lithium-Ion Batteries. **2021**, 14, 2
- 373 Porous Si/Cu₆Sn₅/C composite containing native oxides as anode material for lithium-ion batteries. 1
- 372 Strategies for the Analysis of Graphite Electrode Function. **2021**, 11, 2102693 3
- 371 Rheological phase synthesis and electrochemical performances of LiVMoO₆ as a high-capacity anode material for lithium ion batteries.
- 370 The Key Role of Nanoparticles in Reactivity of 3D Metal Oxides Toward Lithium. **2009**, 220-246 0
- 369 Metal Oxides for Rechargeable Batteries Energy Applications.
- 368 Aqueous-processable surface modified graphite with manganese oxide for lithium-ion battery anode. **2020**, 526, 146720 2
- 367 Peapod-like architectures with CuO microspheres encapsulated within MXene as a conversion electrode for lithium-ion batteries.. **2022**, 3
- 366 Controlling precise voids in the ion-selective carbon shell for zero-strain electrode. **2022**, 45, 110-118 0
- 365 Prussian blue-graphene oxide composite cathode for a sodium-ion capacitor with improved cyclic stability and energy density. **2021**, 898, 162952 2
- 364 Discharged Na₅V₁₂O₃₂ Nanowire Arrays Coated with Cu-Cu₂O for High Performance Lithium-Ion Batteries. **2021**, 168, 110546 0
- 363 SnO Quantum Dots Distributed along VO Nanobelts for Utilization as a High-Capacity Storage Hybrid Material in Li-Ion Batteries. **2021**, 26, 2
- 362 Preparation of a Sulfur-Doped Graphene-Wrapped FeS₂ Microsphere Composite Material for Lithium-Ion Batteries. 0
- 361 Template-assisted synthesis of porous Co₃O₄ nanosheet with excellent electrochemical performance for rechargeable lithium-ion batteries. **2021**, 23, 1
- 360 Square-Scheme Electrochemistry in Battery Electrodes. 2
- 359 In-situ formed amorphous manganese vanadate encapsulating MnO via salt-assisted ball milling toward 3D hierarchical porous electrodes for superior lithium storage. **2021**, 431, 133732
- 358 Hierarchically hexagon-like NiCoP/Co(PO₃)₂ composites supported on Ni foam as multifunction electrodes for supercapacitors and overall water splitting. **2021**, 162, 110511 1

- 357 MnOOH-graphene nanocomposite as promising anode material for Li-ion capacitors. **2021**, 47, 103636 0
- 356 RGO/Cu₂O-CuO nanocomposite as a visible-light assisted photocatalyst for reduction of organic nitro groups to amines. **2021**, 516, 111997 1
- 355 Metal-organic framework-derived nitrogen-doped three-dimensional porous carbon loaded CoTe₂ nanoparticles as anodes for high energy lithium-ion capacitors. **2021**, 47, 103617 2
- 354 Stable lithium metal anode achieved by shortening diffusion path on solid electrolyte interface derived from Cu₂O lithiophilic layer. **2021**, 433, 133689 1
- 353 Co-Existence of Iron Oxide Nanoparticles and Manganese Oxide Nanorods as Decoration of Hollow Carbon Spheres for Boosting Electrochemical Performance of Li-Ion Battery. **2021**, 14, 103617 1
- 352 1D Mesoporous Inorganic Nanomaterials Applied in Rechargeable Batteries. **2022**, 89-127 1
- 351 Operando acoustic emission monitoring of degradation processes in lithium-ion batteries with a high-entropy oxide anode. **2021**, 11, 23381 1
- 350 Monolayer Transition Metal Oxides (MTMOs): CoO, FeO and NiO: First Principles Study. **2022**, 59-70 1
- 349 Large-Sized Nickel-Cobalt-Manganese Composite Oxide Agglomerate Anode Material for Long-Life-Span Lithium-Ion Batteries. **2021**, 11, 103617 2
- 348 Electrode Materials for K-Ion Batteries. **2021**, 11, 103617 1
- 347 Impact of nanomaterials on Li-ion battery anodes. **2021**, 19, 55-98 0
- 346 MXene nanofibers confining MnO nanoparticles: a flexible anode for high-speed lithium ion storage networks. **2021**, 11, 103617 0
- 345 Discharge behavior of NiO as thermal battery cathode at ultrahigh temperature. **2022**, 134, 107185 1
- 344 Metal Oxide-Carbon Nanocomposites for Electrochemical Storage. **2022**, 49-67 1
- 343 In situ TEM studies of electrochemistry of high temperature lithium-selenium all-solid-state batteries. **2022**, 404, 139773 1
- 342 Evolution effect of Ti-based modifiers awards improved lithium ion diffusion rate of single crystal nickel-rich cathode. **2022**, 306, 122796 1
- 341 Advances in and prospects of nanomaterials: Morphological control for lithium rechargeable batteries. **2022**, 93, 106860 2
- 340 Copper sulfides and their composites for high-performance rechargeable batteries. **2022**, 23, 100675 1

339	Synthesis, characterization and electrochemical behavior of Zn-doped MnO/C submicrospheres for lithium ion batteries. 2022 , 897, 163153	2
338	Fullerene-like elastic carbon coatings on silicon nanoparticles by solvent controlled association of natural polyaromatic molecules as high-performance lithium-ion battery anodes. 2022 , 45, 412-421	4
337	Electrolyte/electrode interfacial electrochemical behaviors and optimization strategies in aqueous zinc-ion batteries. 2022 , 45, 618-646	22
336	Spinel-related Li ₂ Ni _{0.5} Mn _{1.5} O ₄ cathode for 5-V anode-free lithium metal batteries. 2022 , 45, 821-827	1
335	One-pot synthesis of MnO-loaded mildly expanded graphite composites as high-performance lithium-ion battery anode materials. 2022 , 897, 163202	1
334	Recent advances on energy storage microdevices: From materials to configurations. 2022 , 45, 741-767	3
333	Three-dimensional flexible molybdenum oxynitride thin film as a high capacity anode for Li-ion batteries.. 2021 , 611, 183-192	0
332	Thermal conductivity of intercalation, conversion, and alloying lithium-ion battery electrode materials as function of their state of charge. 2022 , 26, 100980	2
331	Facile synthesis of core-shell porous Fe ₃ O ₄ @carbon microspheres with high lithium storage performance. 2020 , 23, 279-289	
330	Formation of C/Zn C/Ni Nanocomposites for Potential Application in Electrodes of LIB. 2020 ,	
329	Computational design of materials for metal-ion batteries. 2021 ,	1
328	Assembling Iron Oxide Nanoparticles into Aggregates by LiPO: A Universal Strategy Inspired by Frogspawn for Robust Li-Storage.. 2022 ,	3
327	Nanotechnology for Batteries. 2022 , 29-48	
326	Hierarchical MnO ₂ nanowires as an efficient anode material for rechargeable lithium-ion batteries. 2022 , 3, 1642-1651	1
325	Chemically engineered alloy anode enabling fully reversible conversion reaction: design of a C/Bn-bonded aerofilm anode.	0
324	Green synthesis of a CuO/rGO nanocomposite using a Terminalia arjuna bark extract and its catalytic activity for the purification of water.	1
323	Rapid Synthesis of High-Entropy Oxide Microparticles.. 2022 , e2104761	3
322	observation of the electrochemical lithiation of a single MnO@C nanorod electrode with core/shell structure.. 2021 ,	1

321	Oxygen Loss in Layered Oxide Cathodes for Li-Ion Batteries: Mechanisms, Effects, and Mitigation.. 2022,	10
320	MXenes and their composites for lithium- and sodium-ion battery applications. 2022, 307-341	
319	Concentration Gradient Induced Delithiation Failure of MoO for Li-Ion Batteries.. 2022, 22, 761-767	0
318	Construction of graphitic carbon quantum dots-modified yolk-shell Co ₃ O ₄ microsphere for high-performance lithium storage. 2022, 57, 3586-3600	0
317	Liquefied-Natural-Gas-Derived Vertical Carbon Layer Deposited on SiO as Cost-Effective Anode for Li-Ion Batteries. 2022, 169, 020528	
316	Energy Storage Application. 2022, 49-62	
315	Nitrogen-doped porous carbon derived from bimetallic zeolitic imidazolate frameworks for electrochemical Li ⁺ /Na ⁺ storage. 2022, 26, 683-693	0
314	Preparation of ZnO/CC flexible materials for lithium-ion batteries by electrodeposition. 2022, 33, 4559	0
313	Boosting Reversibility and Stability of Li Storage in SnO -Mo Multilayers: Introduction of Interfacial Oxygen Redistribution.. 2021, e2106366	4
312	Architecting Hierarchical WO Agglomerates Assembled With Straight and Parallel Aligned Nanoribbons Enabling High Capacity and Robust Stability of Lithium Storage.. 2021, 9, 834418	0
311	Self-standing three-dimensional porous NiO/Ni anode materials for high-areal capacity lithium storage. 2022, 215, 110448	2
310	Hierarchical Ion/Electron Networks Enable Efficient Red Phosphorus Anode with High Mass Loading for Sodium Ion Batteries. 2110444	4
309	Enhanced electrochemical performances of FeS/PC composites as anode materials for lithium-ion batteries. 2022, 137, 109211	3
308	Fabrication of a new magnetic CoFe ₂ O ₄ /ZrMCM-41 nanocomposite: Simple construction and application for fast reduction of Cr(IV) and nitroaromatic compounds. 2022, 1254, 132367	0
307	Synthesis and characterization studies of pure and Ni doped CuO nanoparticles by hydrothermal method. 2022, 34, 101831	2
306	High-entropy oxides as advanced anode materials for long-life lithium-ion Batteries. 2022, 95, 106962	3
305	Superaerophobic/Superhydrophilic Surfaces as Advanced Electrocatalyst for Hydrogen Evolution Reaction: A Comprehensive Review.	6
304	High entropy oxide nanofiber by electrospun method and its application for lithium battery anode material.	3

303	The recent progress of prelithiation reagents and strategies on high energy Lithium-ion batteries.. 2022,	0
302	In-Situ Crystallization and Characteristics of Alkali-Activated Materials-Supported Analcime-C from a By-Product of the Lithium Carbonate Industry.. 2022, 15,	0
301	Controllable Synthesis of a Porous PEI-Functionalized CoO/rGO Nanocomposite as an Electrochemical Sensor for Simultaneous as Well as Individual Detection of Heavy Metal Ions.. 2022, 7, 5870-5882	3
300	Development of Space Qualified High Solar Absorptance Nanostructured Black CuO Coating for Spaceborne Plasma Instruments. 1	0
299	In-situ synthesis of F-doped FeOOH nanorods on graphene as anode materials for high lithium storage. 2022, 905, 164142	0
298	Nano and Battery Anode: A Review. 2021, 16, 177	7
297	One-Pot Super Critical Fluid Synthesis of Spinel MnFe ₂ O ₄ Nanoparticles and its Application as Anode Material for Mg-ion Battery. 2022, 34, 989-994	0
296	Zinc blende inspired rational design of a SiC based resilient anode material for lithium-ion batteries. 2022, 10, 5230-5243	0
295	Boosting Lithium Ions Inserting Onto Aromatic Rings by Extending Conjugation of Triazine-Based Porous Organic Frameworks for Lithium-Ion Batteries.	
294	One-Pot Solvothermal Synthesis of Spinel MgFe ₂ O ₄ Nanoparticles as a Promising Cathode Material for Rechargeable Mg-ion Battery. 2022, 99-112	
293	Electrochemical Activation of Nickel Oxide Incorporated Aluminum-Zinc Alloy Matrix as an Efficient Sacrificial Anode in Marine Environments. 2022, 34, 841-848	
292	Development of Low-Cost Microbial Fuel Cell for Converting Waste to Electricity and Abating Pollution. 2022, 167-198	
291	Bonding dependent lithium storage behavior of molybdenum oxides for next-generation Li-ion batteries. 2022, 10, 7718-7727	1
290	Dual Carbon Enables Highly Reversible Alloying/Dealloying Behavior of Ultra-Small Bi Nanoparticles for Ultra-Stable Li Storage.	
289	Untapped potential of 2D charge density wave chalcogenides as negative supercapacitor electrode materials.. 2022, 12, 6433-6439	2
288	Cathode host engineering for non-lithium (Na, K and Mg) sulfur/selenium batteries: A state-of-the-art review. 2022,	1
287	Engineering Particle Size for Multivalent Ion Intercalation: Implications for Ion Battery Systems.	1
286	Synthesizing Luminescent Carbon from Condensed Tobacco Smoke: Bio-Waste for Possible Bioimaging.	

285	Morphological and Electrochemical Properties of ZnMnO Nanopowders and Their Aggregated Microspheres Prepared by Simple Spray Drying Process.. 2022 , 12,	1
284	Challenges and Design Strategies for Conversion-Based Anode Materials for Lithium- and Sodium-Ion Batteries. 2022 , 13, 32-53	1
283	Electrical control of ON/OFF magnetism and exchange bias via reversible ionic motion. 2022 , 120, 082405	3
282	Conversion Reaction of Anode Material for Li-ion Battery Revealed by Operando Soft X-ray Emission Spectroscopy. 2022 , 90, 4-9	
281	The research and synthesis of the cubic 2MnCO ₃ @ZnO applied as cathode material for zinc ion battery.	0
280	Electrochemical properties of yolk-shell structured cobalt hydroxy chloride-carbon composite as an anode for lithium-ion batteries.	0
279	A simple fabrication for nanoscale SnO ₂ -Fe ₂ O ₃ -C lithium-ion battery anode material with tubular network structure. 2022 , 28, 2185	0
278	Atomic short-range order in a cation-deficient perovskite anode for fast-charging and long-life lithium-ion batteries.. 2022 , e2200914	1
277	Synthesis and Characterization of Sn/SnO/C Nano-Composite Structure: High-Performance Negative Electrode for Lithium-Ion Batteries.. 2022 , 15,	
276	Computer simulation of the packing of nanoparticles. 2022 , 401, 117317	0
275	Improving Effect of Graphene on Electrochemical Properties of Fe ₂ O ₃ Anode Materials. 2022 , 12, 593	
274	Nano-Fe ₂ O ₃ -coated NiMoO ₄ composites for high lithium storage performance. 2022 , 28, 1501-1510	0
273	Polyvinylpyrrolidone-regulated synthesis of hollow manganese vanadium oxide microspheres as a high-performance anode for lithium-ion batteries.. 2022 , 620, 144-152	0
272	Structural Changes during the Conversion Reaction of Tungsten Oxide Electrodes with Tailored, Mesoscale Porosity.. 2022 ,	2
271	Emcoating Architecture Construction via CO ₂ /H ₂ Coupling Treatment Doubles Reversible Capacity of NbO ₂ /C Anode.. 2022 ,	0
270	Facile synthesis of CuO nanorods in the presence of NaCl by successive ionic layer adsorption and reaction method and its characterizations.. 2022 , 9, 211899	3
269	Hysteresis in electrochemical systems. 20210017	4
268	Monolithic three-dimensional hollow nanoporous Cu _x O encapsulated mesoporous Cu heterostructures with superior Li storage properties.	0

267	A study on Ti-doped FeO anode for Li ion battery using machine learning, electrochemical and distribution function of relaxation times (DFRTs) analyses.. 2022 , 12, 4851	1
266	Expression Patterns of Energy-Related Genes in Single Cells Uncover Key Isoforms and Enzymes That Gain Priority Under Nanoparticle-Induced Stress.. 2022 ,	1
265	Realizing Reversible Conversion-Alloying of GeO ₂ /N-doped Carbon Nanocomposite with Oxygen Vacancies for Lithium-ion Batteries. 2022 , 100196	
264	MgSiO/Si-Coated Disproportionated SiO Composite Anodes with High Initial Coulombic Efficiency for Lithium Ion Batteries.. 2022 ,	1
263	Size-Dependent Effects in Fullerene-Based Catalysts for Nonaqueous Li ⁺ Air Battery Applications. 2022 , 5, 3380-3391	2
262	Graphene-supported cobalt nanoparticles used to activate SiO ₂ -based anode for lithium-ion batteries. 2022 ,	0
261	MOFs-DERIVED METAL OXIDES FOR FLEXIBLE SUPERCAPACITORS.	
260	The typical structural evolution of silicon anode. 2022 , 100811	2
259	Unusual pseudocapacitive lithium-ion storage on defective Co ₃ O ₄ nanosheets.. 2022 ,	0
258	Revealing the unconventional lithium storage mechanism of ordered mesoporous NiO for lithium-ion batteries. 2022 , 526, 231135	1
257	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-Ion Batteries*. 2022 , 55-99	5
256	Spatial control of lithium deposition by controlling the lithiophilicity with copper(I) oxide boundaries.	0
255	Surface modification of LiFePO ₄ nanoparticles through an organic/inorganic hybrid approach and its impact on electrochemical properties. 2022 , 128952	
254	Nanostructured Transition Metal Oxides for Electrochemical Energy Storage. 2022 , 183-212	
253	Hierarchical 1D/2D V ₃ S ₄ @N, S-Codoped rGO Hybrids as High-Performance Anode Materials for Fast and Stable Lithium-Ion Storage.	0
252	Design of novel perovskite KTaO ₃ nanoflowers via hydrothermal synthesis for electrochemical lithium storage and dopamine biosensing. 2022 , 282, 125990	0
251	Current challenges and future opportunities toward recycling of spent lithium-ion batteries. 2022 , 159, 112202	7
250	Smart interfaces in Li-ion batteries: Near-future key challenges. 2022 , 415, 140258	2

249	Anode materials for lithium-ion batteries: A review. 2022 , 9, 100233	13
248	Mitigating irreversible capacity loss for higher-energy lithium batteries. 2022 , 48, 44-73	1
247	Controllable fabrication of nanoplate and nanowire determined by the surface/interface energy on high-temperature liquid metal. 2022 , 200, 111029	0
246	Spray pyrolysis developed Nd doped Co ₃ O ₄ nanostructured thin films and their structural, and opto-nonlinear properties for optoelectronics applications. 2022 , 150, 107959	0
245	Green synthesis of zinc sulfide-reduced graphene oxide composite and its application in sodium-ion batteries. 2022 , 910, 164769	1
244	Nitrogen-doped MoS ₂ as a catalytic sulfur host for lithium-sulfur batteries. 2022 , 439, 135568	2
243	Sol-gel synthesis of nano block-like ZnMn ₂ O ₄ using citric acid complexing agent and electrochemical performance as anode for lithium-ion batteries. 2022 , 909, 164882	0
242	Stainless steel: A high potential material for green electrochemical energy storage and conversion. 2022 , 440, 135459	2
241	NiS nanodots on N,S-doped graphene synthesized via interlayer confinement for enhanced lithium-/sodium-ion storage.. 2022 , 619, 359-368	0
240	Carbon Nanotube Based Metal-Organic Framework Hybrids From Fundamentals Toward Applications. 2021 , e2104628	5
239	Assessing the Electrochemical Performance of Different Nanostructured CeO ₂ Samples as Anodes for Lithium-Ion Batteries. 2022 , 12, 22	
238	Porous Mixed-Metal Oxide Li-Ion Battery Electrodes by Shear-Induced Co-assembly of Precursors and Tailored Polymer Particles.. 2021 , 13, 61166-61179	3
237	Mesoporous Mulberry-like CoMoO ₄ : A Highly Suitable Anode Material for Sodium Ion Batteries over Lithium Ion Batteries. 2022 , 5, 126-136	2
236	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. 2022 , 12, 2103426	13
235	Biomass-Derived Porous Carbon from Agar as an Anode Material for Lithium-Ion Batteries.. 2021 , 12,	1
234	Crystal Water-Assisted Additional Capacity for Nickel Hydroxide Anode Materials. 2110828	1
233	Entropy Stabilization Effect and Oxygen Vacancies Enabling Spinel Oxide Highly Reversible Lithium-Ion Storage. 2021 ,	6
232	C/Sn deposition on a helical carbon nanofiber matrix as a high performance anode for lithium-ion batteries.	0

231	Pre-lithiation Optimized Voltage Ranges and MnO ₂ /rGO negative electrodes with Oxygen Vacancies for Enhanced Performance of Lithium-Ion Capacitors. 2022 , 140406	0
230	Kinetics and energetics of metal halide perovskite conversion reactions at the nanoscale. 2022 , 3,	1
229	Ion Intercalation in Lanthanum Strontium Ferrite for Aqueous Electrochemical Energy Storage Devices.. 2022 ,	1
228	Influences of Enhanced Entropy in Layered Rocksalt Oxide Cathodes for Lithium-Ion Batteries.	1
227	Cobalt-decorated carbon nanofibers as a low overpotential cathode for nonaqueous Na-CO ₂ batteries. 2022 , 911, 165054	0
226	Table_1.docx. 2019 ,	
225	MOFs and their derivatives for anode of high-performance rechargeable batteries. 2022 , 227-244	
224	Carbon-based anode materials for lithium-ion batteries. 2022 , 521-545	
223	FeP ₂ monolayer: Isoelectronic analogue of MoS ₂ with excellent electronic and optical properties.	0
222	Perspectives on Iron Oxide-Based Materials with Carbon as Anodes for Li- and K-Ion Batteries.. 2022 , 12,	1
221	Mechanistic understanding of the charge storage processes in FeF ₂ aggregates assembled with cylindrical nanoparticles as a cathode material for lithium-ion batteries by in situ magnetometry.	2
220	Preparation, Characterization, and Electrochemical Performance of the Hematite/Oxidized Multi-Walled Carbon Nanotubes Nanocomposite.. 2022 , 27,	0
219	Benefits and Development Challenges for Conversion-Alloying Anode Materials in Na-Ion Batteries. 2022 , 10,	1
218	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. 2022 , 100075	5
217	Structural and electrochemical properties of mesoporous FeVO ₄ as a negative electrode for lithium-ion battery.	1
216	First-principle calculations on Li ₂ CuSb : A novel material for lithium-ion batteries.	
215	Structural, Electronic, and Transport Properties of Phosphorene/Graphene Lateral Heterostructure Anodes: Insights from First-Principles Calculations.	0
214	Lithium-ions uptake by MAX/graphene hybrid. 1	

213	Analyzing the Local Electronic Structure of Co ₃ O ₄ Using 2p _{3d} Resonant Inelastic X-ray Scattering.	1
212	MOF-Derived Long Spindle-like Carbon-Coated Ternary Transition-Metal-Oxide Composite for Lithium Storage.	
211	In Situ Ion Exchange Synthesis of Fe ₃ O ₄ Nanosheets with 3D Hierarchically Porous Carbon Frameworks for High-Performance Energy Storage. 2200207	0
210	Realizing Two-Electron Transfer in Ni(OH) ₂ Nanosheets for Energy Storage.. 2022,	19
209	Green Synthesis of a Reduced-Graphene-Oxide Wrapped Nickel Oxide Nano-Composite as an Anode For High-Performance Lithium-Ion Batteries. 2022, 7,	2
208	Graphene-modified manganese carbonate composites exhibit long life and high specific capacity performance in lithium storage. 2022, 380, 115940	0
207	Structure and electrochemical performance of MoS ₂ based on different molybdenum-sulfur mole ratios. 2022, 167, 110749	0
206	Regulating bifunctional flower-like NiFe ₂ O ₄ /graphene for green EMI shielding and lithium ion storage. 2022, 127, 48-60	10
205	3d Porous Carbon Networks Reinforced Defective Cofeox@C as a High-Rate Electrode for Lithium Ion Batteries.	
204	Impact of Structural Deformations on the Performance of Li-Ion Insertion Hosts.	0
203	Insight into Reversible Conversion Reactions in SnO ₂ -Based Anodes for Lithium Storage: A Review.. 2022, e2201110	1
202	Hetero-Structured Fe-Cr-O Hollow Multishelled Spheres for Stable Sodium Storage.	0
201	Regeneration technologies for electrode nanomaterials of recycled batteries. 2022, 373-389	
200	Metal- organic frameworks and their derivatives as anode material in lithium-ion batteries: Recent advances towards novel configurations.	0
199	N-Doped Graphitized Carbon-Coated Fe ₂ O ₃ Nanoparticles/Highly Graphitized Carbon Hollow Fibers for Advanced Lithium-Ion Batteries Application.	
198	High entropy fluorides as conversion cathodes with tailorable electrochemical performance. 2022,	0
197	Rational Construction of Yolk-Shell Bimetal-Modified Quinonyl-Rich Covalent Organic Polymers with Ultralong Lithium-Storage Mechanism.	2
196	SiO ₂ /FeO ₂ Glass/Ceramic Flakes as an Anode Material for High-Performance Lithium-Ion Batteries. 2200072	1

- 195 Rutile TiO₂ nanorods grown on carbon nanotubes as high-performance lithium-ion batteries anode via one-dimensional electron pathways. ○
- 194 Carbon nanosheets wrapped in SnO₂@TiO₂ nanoparticles as a high performance anode material for lithium ion batteries. **2022**, ○
- 193 Cable-like polyimide@carbon nanotubes composite as a capable anode for lithium ion batteries. **2022**, 446, 137208 ○
- 192 Study on lithium storage performance of plum-pudding-like CoP nanoparticles embedded in N, P co-doped porous carbon. **2022**, 624, 14-23 ○
- 191 Applications, drawbacks, and future scope of nanoparticle-based polymer composites. **2022**, 243-275 1
- 190 Facile Synthesis and Phase Stability of Cu-based Na₂Cu(SO₄)₂·xH₂O (x = 0-2) Sulfate Minerals as Conversion type Battery Electrodes. ○
- 189 Review of metal oxides as anode materials for lithium-ion batteries. ○
- 188 A Bicontinuous Nanostructure Induced in Lithiated Iron Fluoride Electrodes of Lithium-ion Batteries Investigated by Small-Angle X-ray Scattering. **2022**, ○
- 187 Lignin-derived flexible porous carbon material for highly efficient polyselenides and sodium regulation. ○
- 186 Nanostructured transition metal oxides as high-capacity anode materials for lithium-ion batteries. **2022**, ○
- 185 Cutting-edge development in waste-recycled nanomaterials for energy storage and conversion applications. **2022**, 11, 2215-2294 1
- 184 Co₂V₂O₇@Ti₃C₂T_x MXene Hollow Structures Synergizing the Merits of Conversion and Intercalation for Efficient Lithium Ion Storage. 2200153 ○
- 183 Nanomembranes for Energy Storage. **2022**, 221-252 ○
- 182 In-plane structured Fe₃O₄/FeS composite loaded on reduced graphene oxide as a stabilized anode material for lithium-ion batteries. **2022**, 128, ○
- 181 Synthesis and electrochemical performance of nanosheet lamellar ZnMn₂O₄ anodes for Li-ion batteries by microwave hydrothermal method. ○
- 180 Carbon nanofiber decorated ternary transition metal oxide anodes for fast charging lithium-ion batteries. ○
- 179 Design and synthesis of cellulose nanofiber-derived CoO/Co/C two-dimensional nanosheet toward enhanced and stable lithium storage. **2022**, ○
- 178 A Review of Cobalt-Containing Nanomaterials, Carbon Nanomaterials and Their Composites in Preparation Methods and Application. **2022**, 12, 2042 ○

- 177 Potassium-Ion Based Solid-State Batteries. 153-180
- 176 Shining light on transition metal tungstate-based nanomaterials for electrochemical applications: Structures, progress, and perspectives. 1
- 175 Self-Supported Hollow-Co₃O₄@CNT: A Versatile Anode and Cathode Host Material for High-Performance Lithium-Ion and Lithium-Sulfur Batteries. **2022**, 166022 0
- 174 Wireless Communications Beyond 5G: Terahertzwaves, Nano-Communications and the Internet of BB-Nano-Things. 1
- 173 Site-Selective Nitrogen-Doped MnO₂ for Catalytic Oxidation of Carcinogenic HCHO in Indoor Air. 0
- 172 Core-shell FeS₂@NSC grown on graphene for high performance lithium-ion storage. **2022**, 918, 116510 0
- 171 Recent advances in lithium-ion battery materials for improved electrochemical performance: A review. **2022**, 15, 100472 1
- 170 Current advances and prospects in NiO-based lithium-ion battery anodes. **2022**, 53, 102376 1
- 169 Revealing the complex lithiation pathways and kinetics of core-shell NiO@CuO electrode. **2022**, 51, 11-18 2
- 168 Phthalocyanine polymer grafted graphene oxide matrix as high-performance anode material for lithium-ion batteries. 1
- 167 Batteries for aeronautics and space exploration: Recent developments and future prospects. **2022**, 531-595 0
- 166 Catkin-Derived Hybrid Anode for High-Performance Lithium Ion Batteries.
- 165 Ammonium ion pre-intercalation stabilized tunnel h-WO₃ for fast NH₄⁺ storage. 1
- 164 Steric-Hindrance Effect and Self-Sacrificing Template Behavior Induced SnO₂-Qds/Pda Hollow Nanospheres: Enhanced Structural Stability and Reaction Kinetics for Long-Cyclic Li-Ion Half/Full Batteries.
- 163 Highly Stable Fe₂O₃@Fe₃O₄@FeCO₃ Heterostructure Anchored on Graphene as the Enhanced Electrochemical Performance of Li-Ion Battery Anodes.
- 162 Recent Advances in Cu-Based Metal-Organic Frameworks and Their Derivatives for Battery Applications. **2022**, 5, 7842-7873 0
- 161 Electrochemical Performance of Graphene Oxide/Black Arsenic Phosphorus/Carbon Nanotubes as Anode Material for LIBs. **2022**, 15, 4576 0
- 160 Conversion reaction-based transition metal oxides as anode materials for lithium ion batteries: recent progress and future prospects. **2022**, 25, 218-246

- 159 High-Performance Rechargeable Aluminum-Ion Batteries Enabled by Composite FeF₃@ Expanded Graphite Cathode and Carbon Nanotube-Modified Separator. 2200959 3
- 158 Carbon nanoparticle-entrapped macroporous Mn₃O₄ microsphere anodes with improved cycling stability for Li-ion batteries. **2022**, 12, 0
- 157 Heterostructured MnO₂/Fe₂O₃ nanoarrays layer-by-layer assembled on stainless-steel mesh as free-standing anodes for lithium ion batteries towards enhanced performance. **2022**, 104034 0
- 156 Rapid microwave hydrothermal processed spinel Co₃O₄ nanospheres infused N-doped graphene nanosheets for high-performance battery. 0
- 155 Boosting lithium ions inserting onto aromatic ring by extending conjugation of triazine-based porous organic frameworks for lithium-ion batteries. **2022**, 289, 126391
- 154 Co₃O₄ nanoparticles anchored on stable Na₂Ti₂O₅ nanobelts for improved lithium storage. **2022**, 601, 154273 0
- 153 Synthesis of porous Mn-based spinel microspheres with enhanced lithium storage properties. **2022**, 922, 166237 1
- 152 Interface engineering of high entropy Oxide@Polyaniline heterojunction enables highly stable and excellent lithium ion storage performance. **2022**, 450, 137924 2
- 151 Li-Compound Anodes: A Classification for High-Performance Li-Ion Battery Anodes. 0
- 150 Synergistic effect of tailored 3D/2D Ti₃C₂T_x/CoS₂/C nanostructured composite anode for significantly enhanced Li-ion storage. 0
- 149 Modified tungsten oxide as a binder-free anode in lithium-ion battery for improving electrochemical stability. 0
- 148 A Successive "Conversion-Deposition" Mechanism Achieved by Micro-Crystalline Cu₂O Modified Current Collector for Composite Lithium Anode. 0
- 147 Recent Developments and Future Prospects of Transition Metal Compounds as Electrode Materials for Potassium-Ion Hybrid Capacitors. 2200515 1
- 146 In-situ synthesis of two-dimensional sheet-like MoO₂/NPC@rGO as advanced anode for alkali metal ion batteries. **2022**, 0
- 145 Nano-Co₃O₄ anchored helical carbon nanofibers as an anode material for Li-ion batteries. **2022**, 116730 0
- 144 Selectively designed hierarchical copper-cobalt oxysulfide nanoarchitectures for high-rate hybrid supercapacitors. **2022**, 166814 0
- 143 MOF-Derived AlCuSe₂ Embedded in a Carbon Matrix for an Economical Anode of Lithium-Ion Battery. 0
- 142 Study and Characterization rGO/Fe₃O₄ in Microstructure and Synthesized of Magnetic Properties Based Natural Iron Sand. **2022**, 0

141	Multi-spectroscopic analysis of high temperature oxides formed on Cobalt-Chrome-Molybdenum alloys. 2022 ,	0
140	Graphene-based lithium-ion battery anode materials manufactured by mechanochemical ball milling process: A review and perspective. 2022 , 110232	3
139	Nanostructured anatase TiO ₂ as anode of high-performance lithium-ion batteries. 20220018	0
138	Spray pyrolysis: Approaches for nanostructured metal oxide films in energy storage application. 2022 , 54, 105387	0
137	Investigating graphdiyne based materials for rechargeable batteries. 2022 , 46, 101588	1
136	Effects of calcination temperature on the electrochemical performance of LFMO cathode for all-solid-state energy storage. 2022 , 383, 115988	0
135	Ultrafast detection of ammonia at room temperature and subsequent electrochemical water splitting via the ionic liquid templated nano nickel oxide. 2022 , 290, 126537	
134	3D porous carbon network-reinforced defective CoFeOx@C as a high-rate electrode for lithium-ion batteries. 2022 , 428, 140950	2
133	Simple scalable preparation of SnOx/FexOy/C composite and its enhanced lithium storage. 2022 , 806, 139990	
132	Oxygen-deficient Nb ₂ O _{5-x} decorated MCMB anode with much enhanced rate and cycle performances for Li-ion batteries. 2022 , 604, 154564	0
131	Mo-Incorporated Magnetite Fe ₃ O ₄ Featuring Cationic Vacancies Enabling Fast Lithium Intercalation for Batteries. 2203835	0
130	CoO epitaxial growth on Cu(111) by reactive PVD and plasma oxidation. 2022 , 34, 102364	0
129	Highly stable Fe ₂ O ₃ @Fe ₃ O ₄ @FeCO ₃ heterostructure anchored on graphene as the enhanced electrochemical performance of Li-ion battery anodes. 2022 , 605, 154798	0
128	Nanoscale advanced carbons as an anode for lithium-ion battery. 2022 , 16, 100290	1
127	Atomic insights into mechanisms of carbon coating on titania nanoparticle during flame synthesis. 2023 , 201, 189-199	0
126	Synthesis and thermal properties of two novel cobalt (II) Schiff's base complexes as precursors for coating cobalt oxide (Co ₃ O ₄) thin film by a Plasma Enhanced Metallo-Organic Chemical Vapour Deposition. 2023 , 1272, 134189	0
125	Surficial grafting of organoimido moieties enhances the capacity performance of oxometallic clusters.	0
124	Electrodes. 2022 , 137-146	0

123	Polyimide-derived carbon nanofiber membranes as free-standing anodes for lithium-ion batteries. 2022 , 12, 21904-21915	3
122	A MnOx/graphitic carbon composite from CO2 for sustainable Li-ion battery anodes. 2022 , 3, 7087-7097	1
121	Morphology-Controlled Synthesis of Cu ₂ O Encapsulated Phase Change Materials: Superior Photothermal Conversion and Storage Performance in Visible Light Regime.	0
120	Miniaturized lithium-ion batteries for on-chip energy storage.	0
119	A 3D structure C/Si/ZnCo ₂ O ₄ /CC anode for flexible lithium-ion batteries with high capacity and fast charging ability.	0
118	Performance of a Solid Cell with a Solid-Liquid Electrolyte Prepared by a Microwave-Assisted Sintering Technique from MCM-41 and Ionic Liquids. 2022 , 7,	0
117	The Debut and Spreading the Landscape for Excellent Vacancies-promoted Electrochemical Energy Storage of Nano-architected Molybdenum Oxides. 2022 , 101154	0
116	Synthesis of NiO for various optoelectronic applications. 2022 , 25, 320-331	0
115	Recent Progress in Developing a LiOH-based Reversible Nonaqueous Lithium-Air Battery. 2201384	1
114	Enabling Conversion-Type Iron Fluoride Cathode by Halide-Based Solid Electrolyte. 2206845	2
113	Molten salts for rechargeable batteries. 2022 ,	0
112	Building oxygen-vacancy in Co ₃ O ₄ nanocrystal towards ultrahigh pseudocapacitance. 2022 , 929, 167299	0
111	Structural and optical investigations of cobalt oxide nanoparticles. 21-26	0
110	Cluster-derived TiO ₂ nanocrystals with multiple carbon coupling for interfacial pseudo-capacitive lithium storage.	0
109	A first principles study of corundum V ₂ O ₃ material as a promising anode for Li/Mg/Al-ion batteries.	0
108	Spray drying construction of hierarchical hollow ZnMn ₂ O ₄ folded microspheres as anode materials for lithium ion batteries.	0
107	The Mechanical Properties of Batteries and Supercapacitors. 2022 ,	0
106	Perpetual Voltage Control with Flexible Thin Battery from Green Garbage Materials. 2022 , 1-9	0

105	Morphology-controlled synthesis of Cu ₂ O encapsulated phase change materials: superior photothermal conversion and storage performance in visible light regime. 2022 , 140089	0
104	Anchoring Metal-Organic Framework-Derived ZnTe@C onto Elastic Ti ₃ C ₂ T _x MXene with 0D/2D Dual Confinement for Ultrastable Potassium-Ion Storage. 2203118	1
103	Evaluating Electrolyte/Anode Interface Stability in Sodium All-Solid-State Batteries. 2022 , 14, 47706-47715	1
102	Catalytic effect of carbon-based electrode materials in energy storage devices.	3
101	Latticed-Confined Conversion Chemistry of Battery Electrode. 2204912	1
100	SYNTHESIS AND PROPERTIES OF PYRRHOTITE ASH BASED CUBICAL Fe ₂ O ₃ NANOPARTICLES.	0
99	Directional growth of quasi-2D Cu ₂ O monocrystals on rGO membranes in aqueous environments. 2022 , 105472	0
98	Exploiting the multifunctionality of a designed vanadium-doped ZnO hybrid for selective catalytic reduction of NO _x and electrochemical applications. 2022 , 10, 108780	0
97	High-Entropy Nanomaterials for Electrochemical Energy Conversion and Storage. 1,	0
96	Mesoporous Multi-Valence Manganese Oxides Composite Nanotubes Boosting Long-Life Lithium-Ion Batteries.	0
95	Two-dimensional hollow carbon skeleton decorated with ultrafine Co ₃ O ₄ nanoparticles for enhanced lithium storage. 2023 , 631, 191-200	0
94	Facile Synthesis, Antioxidant and Antimicrobial Activities of Diethyl((4-isopropylphenyl)(substituted phenylamino)methyl)phosphonates. 2022 , 92, 2108-2118	0
93	A Study on the Effect of Graphene in Enhancing the Electrochemical Properties of SnO ₂ -Fe ₂ O ₃ Anode Materials. 2022 , 15, 7947	0
92	Constructing Biomass-Based Ultrahigh-Rate Performance SnO _y @C/SiO _x Anode for LIBs via Disproportionation Effect. 2204867	1
91	Recent Advances on Heterojunction-Type Anode Materials for Lithium-/Sodium-Ion Batteries. 2201025	1
90	Metal Halides for High-Capacity Energy Storage. 2205071	1
89	Steric-hindrance effect and self-sacrificing template behavior induced PDA@SnO ₂ -QDs/N-doped carbon hollow nanospheres: Enhanced structural stability and reaction kinetics for long-cyclic Li-ion half/full batteries. 2023 , 631, 214-223	0
88	Heteroatom preintercalated Cl-terminated Ti ₃ C ₂ T _x MXene wrapped with mesoporous Fe ₂ O ₃ nanospheres for improved sodium ion storage.	1

- 87 Interlayer engineering in V6O13 nanobelts toward superior Mg-ion storage. ○
- 86 Low-content SnO2 nanodots on N-doped graphene: lattice-confinement preparation and high-performance lithium/sodium storage. ○
- 85 Search for stable host materials as low-voltage anodes for lithium-ion batteries: A mini-review. **2023**, 55, 364-387 ○
- 84 Nanoarchitectonics of multilayered NiO submicron flakes for ultrafast and stable lithium storage. **2023**, 936, 168259 ○
- 83 Investigating the Local Structure of Ti Based MXene Materials by Temperature Dependent X-Ray Absorption Spectroscopy. ○
- 82 Hydrothermal synthesis of ultrathin WS2 nanosheets as anodes for sodium-ion batteries. **2022**, 19, 817-824 ○
- 81 A REVIEW ON CARBON/GRAPHENE QUANTUM DOTS AND THEIR APPLICATIONS IN ANODE OF LITHIUM-ION BATTERIES. **2022**, 9, ○
- 80 Effect of homojunction structure in boosting sodium-ion storage: the case of MoO2. **2022**, ○
- 79 Nanocrystal Conversion Chemistry within Slit-like 2D Nanogap for High-Rate Cyclic Stability of Lithium-Ion Battery Anodes. ○
- 78 Single Swiss-roll microelectrode elucidates the critical role of iron substitution in conversion-type oxides. **2022**, 8, ○
- 77 Redox-active ligand-mediated assembly for high-performance transition metal oxide nanoparticle-based pseudocapacitors. **2022**, 140742 ○
- 76 Self-activation of Inorganic-Organic Hybrids derived via Continuous Synthesis of Polyoxomolybdate and para-Phenylenediamine enables very High Lithium-Ion Storage Capacity. ○
- 75 Tracking lithiation with transmission electron microscopy. ○
- 74 Metal Oxide Nanoparticles: Synthesis, Properties, Characterization, and Applications. **2023**, 103-144 ○
- 73 A customized strategy to design intercalation-type Li-free cathodes for all-solid-state batteries. 1
- 72 Effect of Calcination Temperature on the Physicochemical Properties and Electrochemical Performance of FeVO4 as an Anode for Lithium-Ion Batteries. **2023**, 16, 565 ○
- 71 Spinel-Structured, Multi-Component Transition Metal Oxide (Ni,Co,Mn)Fe2O4 as Long-Life Lithium-Ion Battery Anode Material. **2023**, 9, 54 ○
- 70 Co3O4-C yolk-shell hollow spheres derived from ZIF-12-PVP@GO for superior anode performance in lithium-ion batteries. **2023**, 58, 355-368 ○

- 69 Metal Oxide Wrapped by Reduced Graphene Oxide Nanocomposites as Anode Materials for Lithium-Ion Batteries. **2023**, 13, 296 ○
- 68 Preparation of 2D ZIF-L and Its Antibacterial and Antifouling Properties. **2023**, 13, 202 ○
- 67 Detecting voltage shifts and charge storage anomalies by iron nanoparticles in three-electrode cells based on converted iron oxide and lithium iron phosphate. **2023**, 440, 141747 ○
- 66 Generation of Cu₂O hierarchical microspheres with oxygen vacancy on Cu foam for fast Li-storage kinetics. **2023**, 930, 117149 ○
- 65 Enhanced Li storage properties of nickel oxalate microtubes with manganese doping and graphene oxide for lithium-ion batteries. **2023**, 940, 168808 ○
- 64 One-Step Engineering Carbon Supported Magnetite Nanoparticles Composite in a Submicron Pomegranate Configuration for Superior Lithium-Ion Storage. **2023**, 16, 313 ○
- 63 A successive conversion-deposition mechanism achieved by micro-crystalline Cu₂O modified current collector for composite lithium anode. **2022**, ○
- 62 Latest advances and comparative analysis of MXenes as anode and cathode electrodes in secondary batteries. **2023**, 133, 030901 ○
- 61 Self-Standing 3D Hollow Nanoporous SnO₂-Modified Cu_xO Nanotubes with Nanolamellar Metallic Cu Inwalls: A Facile In Situ Synthesis Protocol toward Enhanced Li Storage Properties. 2212654 ○
- 60 Conjugated Polymers in the Context of Energy-Storage Applications. **2023**, 133-201 ○
- 59 Facile Construction of Porous ZnMn₂O₄ Hollow Micro-Rods as Advanced Anode Material for Lithium Ion Batteries. **2023**, 13, 512 ○
- 58 Supernano Crystals Boost the Initial Coulombic Efficiency and Capacity of Copper Benzene-1,3,5-Tricarboxylate for Li-Ion Batteries. ○
- 57 E-waste recycled materials as efficient catalysts for renewable energy technologies and better environmental sustainability. ○
- 56 Manufacturing Br:CO₃O₄/Si Heterojunction For Photodetector Applications. **2023**, 19, 15-21 ○
- 55 Surfactant-Mediated Synthesis of Novel Mesoporous Hollow CuO Nanotubes as an Anode Material for Lithium-Ion Battery Application. **2023**, 8, ○
- 54 Mesoporous Polyvalent Ni-Mn-Co-O Composite Nanowire Arrays towards Integrated Anodes Boosting High-properties Lithium Storage. ○
- 53 Historical perspective of electrochemical energy storage devices. **2023**, 17-38 ○
- 52 Comparison between supercapacitors and other energy storing electrochemical devices. **2023**, 673-712 ○

- 51 Possibility of lithium sulfate borate-based glass doping with Ni and Mn ions in energy storage application. **2023**, 206, 110803 ○
- 50 Pressure-induced growth of coralloid-like Fe₂O₃ nanocrystals to enable high-performance conversion cathode. **2023**, 79, 291-300 ○
- 49 Carbon Nano tube based Thermoelectric generator and Graphite Nanoparticle based supercapacitor for smart wearable sensors. **2023**, ○
- 48 Local structure and conversion chemistry of high-entropy oxides as Li-ion anodes. **2023**, 564, 232852 ○
- 47 Growth confinement and ion transportation acceleration via an in-situ formed Bi₄Se₃ layer for potassium ion battery anodes. **2023**, 621, 156785 ○
- 46 Multi-hierarchical heterostructure of GO/ NiCo₂O₄/Co₃O₄ for high power lithium-ion batteries. **2023**, 946, 169447 ○
- 45 Synthesis of large-size bulk hierarchically graphene-structured porous carbon and its versatile applications as hosts of sulfur and lithium for Li-S full cells and electrocatalyst for water splitting. **2023**, 947, 169587 ○
- 44 Mesoporous carbons and Fe collectively boost the capacity increases upon Long-term cycling of Ni/Fe/NiFe₂O₄@C anode for Lithium-ion batteries. **2023**, 623, 156994 ○
- 43 Double-network aerogel-derived spongy 3D porous MnO/C composite for lithium-ion batteries with increasing capacity. **2023**, 948, 169799 ○
- 42 Copper hydroxyphosphate Cu₂(OH)PO₄ as conversion-type anode material for lithium-ion batteries. ○
- 41 On the rising extra storage capacity of ultra-small Fe₃O₄ particles functionalized with HCS and their potential as high-performance anode ma. **2023**, 448, 142155 ○
- 40 MOF seeding strategy for the fabrication of multi-metal oxide anode with enhanced cycling stabilization. **2023**, 213, 112073 ○
- 39 Cobalt oxide based inorganic-organic hybrid composite as novel anodic material for ultra-stable Li-ion battery. **2023**, 297, 127452 ○
- 38 Rapid, external acid-free synthesis of Bi₂WO₆ nanocomposite for efficient supercapacitor application. **2023**, 143, 104697 ○
- 37 Synthesis of expanded graphite-based materials for application in lithium-based batteries. **2023**, 60, 106678 ○
- 36 Electroless Nickel-Plated Ferrochromium Flue Dust as Anode Material for Lithium-Ion Batteries. ○
- 35 Unveiling Hierarchical Zinc-Vanadium Oxide Composite Microflakes as Anode Material for Lithium-Ion Batteries. **2023**, 2023, 1-14 ○
- 34 Carbon Fibers: From PAN to Asphaltene Precursors; A State-of-Art Review. **2023**, 9, 19 ○

- 33 Effect of Initial Structure on Performance of High-Entropy Oxide Anodes for Li-Ion Batteries. **2023**, 9, 115 ○
- 32 Recent Progress in Biomass-Derived Carbon Materials for Li-Ion and Na-Ion Batteries: A Review. **2023**, 9, 116 1
- 31 Selective recovery of lithium from spent LiFePO₄ battery via a self-catalytic air oxidation method. **2023**, 460, 141805 ○
- 30 Interface engineering of Bi₂S₃/ZnS heterostructures embedded in N-doped carbon enable superior lithium storage performance. **2023**, 29, 101377 ○
- 29 Ultrasmall Co₃O₄ nanoparticles as a long-lived high-rate lithium-ion battery anode. **2023**, 52, 3270-3274 ○
- 28 Effect of iron concentration on the structure and thermoelectric performance of copper sulphide nanostructures. **2023**, 655, 414737 ○
- 27 Dielectric and Complex Impedance Spectroscopic studies of Microwave synthesized Cupric Oxide nanoparticles. **2023**, 2426, 012037 ○
- 26 Structural Construction of WO₃ Nanorods as Anode Materials for Lithium-Ion Batteries to Improve Their Electrochemical Performance. **2023**, 13, 776 ○
- 25 Determining surface-specific Hubbard-U corrections and identifying key adsorbates on nickel and cobalt oxide catalyst surfaces. **2023**, 25, 8903-8912 ○
- 24 Structurally Ordered PtNi Intermetallic Nanoparticles as Efficient and Stable Cathode Catalysts for Proton Exchange Membrane Fuel Cells. ○
- 23 One-dimensional nanostructured electrode materials based on electrospinning technology for supercapacitors. **2023**, 134, 109803 ○
- 22 Influence of preparation method on the performance of ZnMn₂O₄ anode material for lithium-ion batteries. **2023**, 18, 100059 ○
- 21 Ammonium Ion Batteries: Material, Electrochemistry and Strategy. ○
- 20 Ammonium Ion Batteries: Material, Electrochemistry and Strategy. ○
- 19 Flexible synthesis of CuCo₂O₄ hexagonal nanocrystal by melting salt modified combustion method as high-performance anode materials for lithium-ion batteries. **2023**, 50, 57-66 ○
- 18 A Composite of Nb₂O₅ and MoO₂ as a High-Capacity High-Rate Anode Material for Lithium-Ion Batteries. ○
- 17 Synergy of cations in high entropy oxide lithium ion battery anode. **2023**, 14, ○
- 16 Tuning coordination environment of iron ions to ensure ultra-high pseudocapacitive capability in iron oxide. ○

- 15 All-Solid-State Thin Film Li-Ion Batteries: New Challenges, New Materials, and New Designs. **2023**, 9, 186 ○
- 14 Study on the Performance of MoO₃/Li Ion Full Battery. **2022**, 96, 3258-3263 ○
- 13 The Anode Materials for Lithium-Ion and Sodium-Ion Batteries Based on Conversion Reactions: a Review. ○
- 12 The Status of Representative Anode Materials for Lithium-Ion Batteries. ○
- 11 In Situ Construction of Zn₂Mo₃O₈/ZnO Hierarchical Nanosheets on Graphene as Advanced Anode Materials for Lithium-Ion Batteries. **2023**, 62, 6032-6046 ○
- 10 Lithiation-Regulated Iron Oxide Heterostructure for Hydrogen Evolution Reaction: Optimized Degree of Crystallinity for Enhanced Electrochemical Activity. **2023**, 11, 5918-5925 ○
- 9 (MgO)₆₀: A magic cluster active in UV range under DFT study. **2023**, ○
- 8 Efficient and Stable Anode Material for Li Batteries: Utilizing Co₃O₄ Nanoparticles Modified Active Graphite Derived from Date Pulp. ○
- 7 A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors. **2023**, 2023, 1-15 ○
- 6 Rechargeable Li-ion full batteries based on one-dimensional Li-rich Li_{1.13}Mn_{0.26}Ni_{0.61}O₂ cathode and nitrogen-doped carbon-coated NiO anode materials. ○
- 5 Secondary-Phase-Induced Charge/Discharge Performance Enhancement of Co-Free High Entropy Spinel Oxide Electrodes for Li-Ion Batteries. ○
- 4 Hydrogenated titanium dioxide modified core-shell structure Fe₃O₄@NiO for lithium-ion battery anode material. ○
- 3 High-entropy oxides for energy storage and catalysis. **2023**, 209-236 ○
- 2 Carbon Nanomaterials from Biomass for Solar Energy Conversion and Storage. **2023**, 301-329 ○
- 1 Synthesis of CoPO₄ on graphene nanosheets for using as an anode material for lithium-ion batteries. **2023**, 34, ○