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## Phospho-olivines as Positive-Electrode Materials for Rechargeable Lithium Batteries

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2303	Chapter 25. Conducting solids, covering ionic and electronic conductors. <b>1998</b> , 94, 479		
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1841	Aromatic Carbonyl Derivative Polymers as High-Performance Li-Ion Storage Materials. <b>2007</b> , 19, 1616-1621	351

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1822	Surfactant based sol-gel approach to nanostructured LiFePO <sub>4</sub> for high rate Li-ion batteries. <b>2007</b> , 163, 1064-1069	282
1821	Review on electrode-electrolyte solution interactions, related to cathode materials for Li-ion batteries. <b>2007</b> , 165, 491-499	544
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1711	A PVB-based rheological phase approach to nano-LiFePO <sub>4</sub> /C composite cathodes. <b>2008</b> , 184, 313-317	20
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1701	Synthesis and electrochemical properties of olivine LiFePO <sub>4</sub> prepared by a carbothermal reduction method. <b>2008</b> , 184, 469-472	62
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1530	Effect of synthesis temperature on the properties of LiFePO <sub>4</sub> /C composites prepared by carbothermal reduction. <b>2009</b> , 189, 423-428	132
1529	Preparation and characterization of mesoporous LiFePO <sub>4</sub> /C microsphere by spray drying assisted template method. <b>2009</b> , 189, 794-797	76
1528	Structure studies on LiMn <sub>0.25</sub> Fe <sub>0.75</sub> PO <sub>4</sub> by in-situ synchrotron X-ray diffraction analysis. <b>2009</b> , 189, 790-793	23
1527	Lithium metal phosphates, power and automotive applications. <b>2009</b> , 189, 748-751	128
1526	Study of LiFePO <sub>4</sub> cathode materials coated with high surface area carbon. <b>2009</b> , 189, 155-162	66
1525	LiFePO <sub>4</sub> as an optimum power cell material. <b>2009</b> , 189, 522-526	30
1524	Morphology and electrical properties of carbon coated LiFePO <sub>4</sub> cathode materials. <b>2009</b> , 189, 462-466	94
1523	Electrochemical properties of LiFe <sub>0.9</sub> Mn <sub>0.1</sub> PO <sub>4</sub> /Fe <sub>2</sub> P cathode material by mechanical alloying. <b>2009</b> , 189, 435-439	37
1522	A comparison study of capacity degradation mechanism of LiFePO <sub>4</sub> -based lithium ion cells. <b>2009</b> , 189, 445-448	27
1521	Preparation and characterization of Ti <sup>4+</sup> -doped LiFePO <sub>4</sub> cathode materials for lithium-ion batteries. <b>2009</b> , 189, 440-444	47
1520	Cathode properties of metal trifluorides in Li and Na secondary batteries. <b>2009</b> , 190, 558-562	141
1519	Characterisation of charge and discharge behaviour of lithium ion batteries with olivine based cathode active material. <b>2009</b> , 191, 582-590	39
1518	Physical and electrochemical properties of LiFePO <sub>4</sub> /C composite cathode prepared from various polymer-containing precursors. <b>2009</b> , 193, 822-827	100
1517	Tris(pentafluorophenyl) borane as an electrolyte additive for LiFePO <sub>4</sub> battery. <b>2009</b> , 193, 834-840	40

1516	Surface modified LiFePO <sub>4</sub> /C nanocrystals synthesis by organic molecules assisted supercritical water process. <b>2009</b> , 194, 1036-1042	31
1515	Synthesis and characterization of high-density LiFePO <sub>4</sub> /C composites as cathode materials for lithium-ion batteries. <b>2009</b> , 54, 4595-4599	89
1514	Synthesis, characterization and electrochemical properties of a novel triphosphate LiFe <sub>2</sub> P <sub>3</sub> O <sub>10</sub> . <b>2009</b> , 54, 5500-5508	5
1513	Synthesis and characterization of carbon-coated Li <sub>0.5</sub> Ni <sub>0.25</sub> TiOPO <sub>4</sub> anode material. <b>2009</b> , 54, 5531-5536	17
1512	Reaction mechanism and electrochemical performance of LiFePO <sub>4</sub> /C cathode materials synthesized by carbothermal method. <b>2009</b> , 54, 7389-7395	54
1511	Synthesis of LiFePO <sub>4</sub> /carbon composite from nano-FePO <sub>4</sub> by a novel stearic acid assisted rheological phase method. <b>2009</b> , 55, 311-315	40
1510	Preparation and electrochemical properties of spherical LiFePO <sub>4</sub> and LiFe <sub>0.9</sub> Mg <sub>0.1</sub> PO <sub>4</sub> cathode materials for lithium rechargeable batteries. <b>2009</b> , 39, 2433-2438	14
1509	Electrochemical characteristics of LiFePO <sub>4</sub> /LiCoO <sub>2</sub> mixed electrode for Li secondary battery. <b>2009</b> , 23, 219-224	10
1508	Developments of lithium-ion batteries and challenges of LiFePO <sub>4</sub> as one promising cathode material. <b>2009</b> , 44, 2435-2443	137
1507	CAM sol-gel synthesized LiMPO <sub>4</sub> (M=Co, Ni) cathodes for rechargeable lithium batteries. <b>2009</b> , 49, 137-144	69
1506	Li-storage and cycling properties of spinel, CdFe <sub>2</sub> O <sub>4</sub> , as an anode for lithium ion batteries. <b>2009</b> , 32, 295-304	23
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1503	Characteristics of xLiFePO <sub>4</sub> /yLi <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> electrodes for lithium batteries. <b>2009</b> , 15, 753-759	52
1502	Synthesis of LiFePO <sub>4</sub> -C cathode materials using a green and low-cost method. <b>2009</b> , 15, 689-692	8
1501	Synthesis and electrochemical properties of Cr-doped Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials for lithium-ion batteries. <b>2009</b> , 24, 343-346	9
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1499	Synthesis of LiFePO <sub>4</sub> using FeSO <sub>4</sub> ·7H <sub>2</sub> O byproduct from TiO <sub>2</sub> production as raw material. <b>2009</b> , 28, 612-617	3

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1481	Li-ion diffusion kinetics in LiFePO4 thin film prepared by radio frequency magnetron sputtering. <b>2009</b> , 54, 4631-4637	110

1480	Needle-like LiFePO <sub>4</sub> thin films prepared by an off-axis pulsed laser deposition technique. <b>2009</b> , 517, 2618-2622	27
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1477	Preparation and electrochemical properties of cathode materials for lithium ion battery by aerosol process. <b>2009</b> , 161, 109-114	15
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1466	Preparation and performances of LiFePO <sub>4</sub> cathode in aqueous solvent with polyacrylic acid as a binder. <b>2009</b> , 189, 547-551	110
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1431	Overcharge Behavior of Metal Oxide-Coated Cathode Materials. <b>2009</b> , 1-33	
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1414	A new phosphate-formate precursor method for the preparation of carbon coated nano-crystalline LiFePO <sub>4</sub> . <b>2009</b> , 476, 950-957		31
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1412	Electrochemical performance of Ru-doped LiFePO <sub>4</sub> /C cathode material for lithium-ion batteries. <b>2009</b> , 481, 590-594		51
1411	Preparation and characteristic of spherical Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <b>2009</b> , 486, L5-L7		26
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1397	Hierarchically Porous Monolithic $\text{LiFePO}_4/\text{Carbon}$ Composite Electrode Materials for High Power Lithium Ion Batteries. <b>2009</b> , 21, 5300-5306		173
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1390	SECONDARY BATTERIES – LITHIUM RECHARGEABLE SYSTEMS   Overview. <b>2009</b> , 1-26	5
1389	Colloidal Crystal Templating to Produce Hierarchically Porous LiFePO <sub>4</sub> Electrode Materials for High Power Lithium Ion Batteries. <b>2009</b> , 21, 2895-2903	150
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1386	Nanoscale design to enable the revolution in renewable energy. <b>2009</b> , 2, 559	311
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1381	Energy Harvesting Technologies. <b>2009</b> ,	678
1380	Structural, magnetic, and energetic properties of Na <sub>2</sub> FePO <sub>4</sub> F, Li <sub>2</sub> FePO <sub>4</sub> F, NaFePO <sub>4</sub> F, and LiFePO <sub>4</sub> F from ab initio calculations. <b>2009</b> , 106, 043510	22
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1377	Controlling dimensionality in templated layer, chain and framework structures by combining metal fluorides with oxotetrahedra. <b>2009</b> , 7209-11	12
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1298	Sonochemical synthesis of nanostructured VOPO <sub>4</sub> · 2H <sub>2</sub> O/carbon nanotube composites with improved lithium ion battery performance. <b>2010</b> , 12, 417-427	18
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1292	Synthesis and Li <sup>+</sup> ion conductivity of Li <sub>2</sub> O · Nb <sub>2</sub> O <sub>5</sub> · P <sub>2</sub> O <sub>5</sub> glasses and glass-ceramics. <b>2010</b> , 45, 1443-1448	26
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1278	Scalable Synthesis of Tavorite LiFeSO <sub>4</sub> F and NaFeSO <sub>4</sub> F Cathode Materials. <b>2010</b> , 122, 8920-8924	36
1277	Scalable synthesis of tavorite LiFeSO <sub>4</sub> F and NaFeSO <sub>4</sub> F cathode materials. <b>2010</b> , 49, 8738-42	152
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1273	XAS study of LiFePO <sub>4</sub> synthesized by solid state reactions and hydrothermal method. <b>2010</b> , 619, 122-127	10
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1268	Recent developments in cathode materials for lithium ion batteries. <b>2010</b> , 195, 939-954	1185
1267	Cycling and rate performance of Li/LiFePO <sub>4</sub> cells in mixed FSI/FSI room temperature ionic liquids. <b>2010</b> , 195, 2029-2035	44
1266	Novel synthesis of LiFePO <sub>4</sub> /Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> composite cathode material by aqueous precipitation and lithiation. <b>2010</b> , 195, 2935-2938	67
1265	Hydrothermal preparation of LiFePO <sub>4</sub> nanocrystals mediated by organic acid. <b>2010</b> , 195, 2877-2882	120

1264	Directed growth of nanoarchitected LiFePO <sub>4</sub> electrode by solvothermal synthesis and their cathode properties. <b>2010</b> , 195, 6167-6171	59
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1261	PPy doped PEG conducting polymer films synthesized on LiFePO <sub>4</sub> particles. <b>2010</b> , 195, 3907-3912	59
1260	Preparation and characterization of Na-doped LiFePO <sub>4</sub> /C composites as cathode materials for lithium-ion batteries. <b>2010</b> , 195, 4308-4312	104
1259	Porous micro-spherical aggregates of LiFePO <sub>4</sub> /C nanocomposites: A novel and simple template-free concept and synthesis via sol-gel-spray drying method. <b>2010</b> , 195, 6873-6878	89
1258	Synthesis and characterization of Li <sub>3</sub> V(2-x/3)Mgx(PO <sub>4</sub> ) <sub>3</sub> /C cathode material for lithium-ion batteries. <b>2010</b> , 195, 5013-5018	140
1257	Synthesis and performance of Li <sub>3</sub> (V <sub>1-x</sub> Mgx) <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials. <b>2010</b> , 195, 5775-5779	128
1256	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO <sub>2</sub> (anatase) and phosphate olivines (LiMnPO <sub>4</sub> ; LiFePO <sub>4</sub> ) for electrochemical Li-storage. <b>2010</b> , 195, 5360-5369	64
1255	A novel sol-gel synthesis route to NaVPO <sub>4</sub> F as cathode material for hybrid lithium ion batteries. <b>2010</b> , 195, 6854-6859	103
1254	Open-circuit voltage study on LiFePO <sub>4</sub> olivine cathode. <b>2010</b> , 195, 6879-6883	27
1253	Aging of the LiFePO <sub>4</sub> positive electrode interface in electrolyte. <b>2010</b> , 195, 7415-7425	54
1252	Improved electrochemical performances of 9LiFePO <sub>4</sub> -Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C composite prepared by a simple solid-state method. <b>2010</b> , 195, 8331-8335	79
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1250	Synthesis of high tap density Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials using mixed lithium precursors. <b>2010</b> , 71, 394-399	17
1249	Particle size distribution and electrochemical properties of LiFePO <sub>4</sub> prepared by a freeze-drying method. <b>2010</b> , 71, 848-853	20
1248	Synthesis of spherical LiFePO <sub>4</sub> /C via Ni doping. <b>2010</b> , 71, 1196-1200	36
1247	Synthesis and characterization of LiFePO <sub>4</sub> . <b>2010</b> , 8, 33-38	3

1246	Effects of doping on the electronic properties of LiFePO <sub>4</sub> : A first-principles investigation. <b>2010</b> , 405, 803-807	52
1245	A.c. conduction mechanism in LiFe <sub>1/2</sub> Mn <sub>1/2</sub> VO <sub>4</sub> . <b>2010</b> , 405, 2205-2207	7
1244	Thermal stabilities of delithiated olivine MPO <sub>4</sub> (M=Fe, Mn) cathodes investigated using first principles calculations. <b>2010</b> , 12, 427-430	187
1243	High-temperature carbon-coated aluminum current collector for enhanced power performance of LiFePO <sub>4</sub> electrode of Li-ion batteries. <b>2010</b> , 12, 488-491	71
1242	Microwave solid-state synthesis and electrochemical properties of carbon-free Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as cathode materials for lithium batteries. <b>2010</b> , 55, 2951-2957	43
1241	Enhanced electrochemical performance of carbon nanospheresâLiFePO <sub>4</sub> composite by PEG based solâgel synthesis. <b>2010</b> , 55, 3921-3926	82
1240	Electrochemical lithiation and delithiation of LiMnPO <sub>4</sub> : Effect of cation substitution. <b>2010</b> , 55, 4162-4169	93
1239	An optimized Ni doped LiFePO <sub>4</sub> /C nanocomposite with excellent rate performance. <b>2010</b> , 55, 5886-5890	76
1238	Effects of neodymium aliovalent substitution on the structure and electrochemical performance of LiFePO <sub>4</sub> . <b>2010</b> , 55, 5899-5904	27
1237	The Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C composites with high-rate capability prepared by a maltose-based solâgel route. <b>2010</b> , 55, 6761-6767	86
1236	Effects of Cr doping on the electrochemical properties of Li <sub>2</sub> FeSiO <sub>4</sub> cathode material for lithium-ion batteries. <b>2010</b> , 55, 8482-8489	82
1235	Lithium intercalation into amorphous FePO <sub>4</sub> cathode in aqueous solutions. <b>2010</b> , 55, 9174-9178	36
1234	Thermodynamics and kinetics of phase transformation in intercalation battery electrodes â phenomenological modeling. <b>2010</b> , 56, 531-542	37
1233	Modeling the competing phase transition pathways in nanoscale olivine electrodes. <b>2010</b> , 56, 969-976	42
1232	Morphological solution for enhancement of electrochemical kinetic performance of LiFePO <sub>4</sub> . <b>2010</b> , 56, 995-999	49
1231	Structural and textural characterization of LiFePO <sub>4</sub> thin films prepared by pulsed laser deposition on Si substrates. <b>2010</b> , 518, 5447-5451	16
1230	Enhanced electrochemical performance of unique morphological LiMnPO <sub>4</sub> /C cathode material prepared by solvothermal method. <b>2010</b> , 150, 81-85	77
1229	First principles study of JahnâTeller effects in Li <sub>x</sub> MnPO <sub>4</sub> . <b>2010</b> , 150, 40-44	76

1228	Ab initio prediction for the ionic conduction of lithium in and olivine materials. <b>2010</b> , 150, 693-696	10
1227	Electrochemical performance of magnetron sputter deposited LiFePO <sub>4</sub> -Ag composite thin film cathodes. <b>2010</b> , 205, 1642-1646	8
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