

PM  
1-76/02

Volume 20 | Number 11 | November 2014

# Ionics

International Journal  
of Ionics The Science  
and Technology of Ionic  
Motion

REVIEW

**Research status in preparation of FePO<sub>4</sub>: a review**  
Y.-m. Zhu · Z.-w. Ruan · S.-z. Tang · V. Thangadurai 1501

ORIGINAL PAPERS

**LiFePO<sub>4</sub>/C composites derived from precipitated FePO<sub>4</sub> precursor: effects of mixing processes**  
Z. Liu · J. Li · Y. Xing · L. Wang · S. Fang · B. Xu · X. Qu 1511

**Influences on power performances of metal oxide additives for LiFePO<sub>4</sub> electrodes**  
X. Huang · X. He · C. Jiang · G. Tian 1517

**Structure and electrochemical performance of LiCoO<sub>2</sub> cathode material in different voltage ranges**  
Z. Wang · Z. Wang · W. Peng · H. Guo · X. Li · J. Wang · A. Qi 1525

**Preparation and electrochemical performance of spherical MnO<sub>x</sub> with high capacitance**  
H.-M. Luo · Y.-X. Sun · F.-B. Zhang · J.-Q. Zhang · H.-X. Feng 1535

**Double-walled core-shell structured Si@SiO<sub>2</sub>@C nanocomposite as anode for lithium-ion batteries**  
H.-C. Tao · X.-L. Yang · L.-L. Zhang · S.-B. Ni 1547

**The effects of Li<sub>2</sub>CO<sub>3</sub> particle size on the properties of lithium titanate as anode material for lithium-ion batteries**  
W. Liu · J. Zhang · Q. Wang · X. Xie · Y. Lou · B. Xia 1553

**A comparative study on the effects of salt and filler on transport and structural properties of organic–inorganic hybrid electrolytes**  
T.-S. Hu · P.-K. Hong · D. Saikia · H.-M. Kao · M.-C. Chen 1561

**The effect of different concentrations of Na<sub>2</sub>SnO<sub>3</sub> on the electrochemical behaviors of the Mg-8Li electrode**  
Y. Lv · L. Wang · Y. Li · Y. Jin · J. Feng · Y. ming Ren · D. Cao · G. Wang · M. Zhang 1573

**Influence of fuel and media on membraneless sodium percarbonate fuel cell**  
K. Ponmani · S. Durga · M. Gowdhamamoorthi · S. Kiruthika · B. Muthukumaran 1579

**Improving the electrochemistry and microstructure of nickel electrode by deposition on anodized titanium substrate for the electrocatalytic oxidation of methanol and ethanol**  
R. Alcántara · G.F. Ortiz · J.I. Corredor 1591

**A sensitive amperometric detection of dopamine agonist drug pramipexole at functionalized multi-walled carbon nanotubes (f-MWCNTs) modified electrode**  
S. Cheemalapati · C. Karuppiah · S.-M. Chen 1599

**Polypyrrole–NiO hybrid nanocomposite films: highly selective, sensitive, and reproducible NO<sub>2</sub> sensors**  
S.R. Nalage · A.T. Mane · R.C. Pawar · C.S. Lee · V.B. Patil 1607

**Electrical conductivity and dielectric relaxation studies of a polymeric hybrid compound: [(C<sub>2</sub>H<sub>10</sub>N<sub>2</sub>)]CdC<sub>12</sub>(SCN)<sub>2</sub>)<sub>n</sub>**  
K. Saidi · S. Kamoun · H.F. Ayedi 1617

SHORT COMMUNICATIONS

**Synthesis of LiCoPO<sub>4</sub> as cathode material for lithium-ion batteries by the rheological phase method**  
S. Sun · C. Du · J. Wu · Z. Tang · M. Yang · X. Zhang 1627

**Self-assembled 3D Co<sub>3</sub>O<sub>4</sub>-graphene frameworks with high lithium storage performance**  
J. Guo · F. Li · J. Sui · H. Zhu · X. Zhang 1635

**Electrical properties of novel Li<sub>4.08</sub>Zn<sub>0.04</sub>Si<sub>0.96</sub>O<sub>4</sub> ceramic electrolyte at high temperatures**  
S.B.R.S. Adnan · N.S. Mohamed 1641

**Further Articles** can be found at [link.springer.com](http://link.springer.com)

**Abstracted/Indexed in:**

Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Chemical Abstracts Service (CAS), Google Scholar, Academic OneFile, EI Encompass, EI-Compendex, EnCompassLit, Gale, OCLC, SCImago, Summon by ProQuest

**Instructions for Authors** for *Ionics* are available at [www.springer.com/11581](http://www.springer.com/11581)