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In this issue

Research Article

Open Access Research Article PTZAID:IJNNN-1-104

LiF-MO (M=Co, Fe, Ni) Nanocomposite Thin Film as Anode Materials for Lithium-ion Battery

Published On: May 11, 2015 | Pages: 014 - 018

Author(s): Wenyuan Liu, Changfeng Ke, Xuehai Yan, Li Duan*, Lin Li and Chong Liu

To investigate the electrochemical performance of MO (M=Co, Fe, Ni) nanostructures on lithium insertion and extraction, size-controlled LiF-MO nanocomposite thin-film electrodes, consisting of metallic M and M oxide (MO) nanoparticles in an amorphous, inert LiF matrix, were designed and fabricated using a RF sputtering system with metallic M and LiF mixture targets. T ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000004

Open Access Research Article PTZAID:IJNNN-1-102

Combined In vitro Effects of TiO2 Nanoparticles and Dimethyl Sulfoxide (DMSO) on HepG2 Hepatocytes

Published On: April 13, 2015 | Pages: 002 - 010

Author(s): Andreea R Lupu*, Lidia Cremer and Traian Popescu

Introduction: Professional workers that manufacture or use titanium dioxide (TiO2)-based paints are exposed to potentially toxic TiO2 nanomaterials as well as to different paint solvents such as dimethyl sulfoxide (DMSO). In this context, we evaluate the combined cytotoxic effects of TiO2 nanoparticles and DMSO on HepG2 human hepatocytes. ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000002

Editorial

Open Access Editorial PTZAID:IJNNN-1-101

Impetus in Fabrication of Biosensors

Published On: March 21, 2015 | Pages: 001 - 001

Author(s): Jagriti Narang*, Nidhi Chauhan and Nitesh Malhotra

A biosensor is an element employed for the detection of an analyte by combining a biological component with a physico-chemical detector component. ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000001

Commentary

Open Access Commentary PTZAID:IJNNN-1-105

Graphene Solar Cells-Will it be the Ultimate Power Converter?

Published On: June 16, 2015 | Pages: 019 - 021

Author(s): Arghya Narayan Banerjee*

Solar cells or photovoltaic (PV) cells involve the direct conversion of light energy into electrical energy. PV cells are basically p-n junctions made from layers of semiconducting materials. ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000005

Opinion

Open Access Opinion PTZAID:IJNNN-1-103

Self-Assembly as a Technique for Peptide-Based Materials

Published On: May 06, 2015 | Pages: 011 - 013

Author(s): Juan Wang and Xuehai Yan*

Molecular self-assembly is a key function in biology and has been developed as an elegant technique for fabrication of various complex structures and functional materials. Key importance for structural formation in terms of self-assembly is molecular recognition pertaining to intermolecular weak interactions such as hydrophobic interactions, hydrogen bonds, p-p stacki ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000003