

## TABLE OF CONTENTS

Volume 3 Number 3

September 2013

### Synthesis of a Green Nano-Silica Material Using Beneficiated Waste Dunites and Its Application in Concrete

A. Lazaro, G. Quercia, H. J. H. Brouwers, J. W. Geus.....41

### Density Functional Study of the Cluster Model of SnO<sub>2</sub>(110) Surface Modified by Benzoic Acids

T. Khishigjargal, N. Javkhlanlugs, C. Ganzorig, Y. Kurihara, M. Sakomura, K. Ueda.....52

### Experimental Investigation of Drilling Fluid Performance as Nanoparticles

J. Nasser, A. Jesil, T. Mohiuddin, M. Al Ruqeshi, G. Devi, S. Mohataram.....57

### Size Variation of Gold Nanoparticles Synthesized Using Tannic Acid in Response to Higher Chloroauric Acid Concentrations

T. Ahmad, W. Khan.....62

### Controlled Release of Diclofenac Sodium from Silica-Chitosan Composites

R. B. Kozakevych, Y. M. Bolbukh, V. A. Tertykh.....69

### Physical Properties of CrSb/InP(001): Effect of Interface in Half-Metallic

A. Boochani, S. Solymani, S. Rezaee, N. B. Nezafat, S. F. Tadayon, A. Aminian.....79

### Comparison of Acidic and Polymeric Agents in Synthesis of TiO<sub>2</sub> Nanoparticles via a Modified Sol-Gel Method

M. Karimipour.....87

### Evaluation of Energy Band Gap, Thermal Conductivity, Phase Transition Temperature and Elastic Response of PS/CdS Semiconducting Optical Nanocomposite

V. Mathur, K. S. Rathore, K. Sharma.....93

### The Effects of Annealing Process on Dielectric and Piezoelectric Properties of BMT-Base Lead-Free Ceramics

M. Ghasemifard, M. Daneshvar, M. Ghamari.....100

### Study of the Translocation and Distribution of Cadmium into Bean Plants (*Phaseolus vulgaris*) Using Labelled Cd-109

H. Benabid, M. F. Ghorab.....108

---

The figure on the front cover is from the article published in World Journal of Nano Science and Engineering, 2013, Vol. 3, No. 3, pp. 52-56 by Tegshjargal Khishigjargal, *et al.*