

TABLE OF CONTENTS

Volume 11 Number 11

November 2012

Value Addition to Red Sediment Placer Sillimanite Using Microwave Energy and in Depth Structural and Morphological Characterization of Mullite

S. S. Srikant, S. K. Singh, P. S. Mukherjee, R. B. Rao.....1055

Identification of Growth Promoter to Fabrication SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Al Alloy

M. Devaiah, T. Srihari, T. P. Rajasekharan.....1063

Growth and Characterization of β -Alanine Oxalate—A New Organic Single Crystal

S. L. M. Ponmani, P. Selvarajan, N. Balasundari, D. Jencylin.....1069

Fabrication and Characterizations of Mechanical Properties of Al-4.5%Cu/10TiC Composite by *In-Situ* Method

A. Kumar, M. M. Mahapatra, P. K. Jha.....1075

TL Glow Curve Study, Kinetics, PL and XRD Analysis of Mn²⁺ Doped CaAl₂O₄ Phosphors

J. Kaur, N. S. Suryanarayana, B. Jaykumar, V. Dubey, R. Shrivastava, H. N. Baig.....1081

Wear Behaviour of Al-SiC_p Metal Matrix Composites and Optimization Using Taguchi Method and Grey Relational Analysis

S. Ghosh, P. Sahoo, G. Sutradhar.....1085

Mechanical Property Estimation of Similar Weld using Ball Indentation Technique

H. K. Khandelwal, K. Sharma, R. Chhibber.....1095

Characterization and Application of Naturally Occurring Mineral Based Pigment in Surface Coating

S. Umale, P. Mahanwar.....1101

Effect of Titanium Addition on Behavior of Medium Carbon Steel

H. S. El-Faramawy, S. N. Ghali, M. M. Eissa.....1108

A Mathematical Model of an Evaporative Cooling Pad Using Sintered Nigerian Clay

C. J. Lekwuwa, A. C. Ogbu, A. C. Hubert, O. P. Chukwulozie.....1113

Crystal Growth and Characterization of Potassium Manganese Nickel Sulphate Hexahydrate—A New UV Filter

V. Duraikkan, S. A. Bahadur, S. Athimoolam.....1121

Processing of 5083 Aluminum Alloy Reinforced with Alumina through Microwave Sintering

J. Verma, A. Kumar, R. Chandrakar, R. Kumar.....1126