

TABLE OF CONTENTS

Volume 1 Number 2

July 2011

H₂ and CH₄ Sorption on Cu-BTC Metal Organic Frameworks at Pressures up to 15 MPa and Temperatures between 273 and 318 K	
Y. Gensterblum.....	23
Modeling of Adsorption of Bi(III) from Nitrate Medium by Impregnated Resin D2EHPA/XAD-1180	
N.-E. Belkhouche, N. Benyahia.....	30
Effect of Annealing on Structural, Morphological, Electrical and Optical Studies of Nickel Oxide Thin Films	
V. Patil, S. Pawar, M. Chougule, P. Godse, R. Sakhare, S. Sen, P. Joshi.....	35
Effect of Self-Assembled Monolayers on the Performance of Organic Photovoltaic Cells	
H. Bedis.....	42
The Optical Parameters of Zn_xCd_(1-x)Te Chalcogenide Thin Films	
U. P. Khairnar, S. S. Behere, P. H. Pawar.....	51
Development of the Biopolymeric Optical Planar Waveguide with Nanopattern	
S. H. Yoon, W. T. Jeong, K. C. Kim, K. J. Kim, M. C. Oh, S. M. Lee.....	56
AZ91 Magnesium Alloys: Anodizing of Using Environmental Friendly Electrolytes	
N. A. El Mahallawy, M. A. Shoeib, M. H. Abou El Enain.....	62
Effect of Nitriding on Wear Behavior of Graphite Reinforced Aluminum Alloy Composites	
B. M. Girish, B. M. Satish, H. R. Vitala.....	73
Analysis of Mobile Phone Reliability Based on Active Disassembly Using Smart Materials	
Z. F. Liu, L. X. Zhao, J. Zhong, X. Y. Li, H. B. Cheng.....	80