

## CONTENTS

### **Brush electroplating and characterization of Ni/Si<sub>3</sub>N<sub>4</sub> composite coatings**

K. Skroban, A. Gajewska-Midziałek, Maria Trzaska .....66

### **Development and Characterization of Mg-nHAP-GNP Hybrid Composites for Biomedical Applications**

K. Veeramallu, T.K. Kottedda, V. Raghavan, P. Undre, S. Shailajha, M. Nizamoddin .....76

### **Effect of Hybrid Structure on Flexural Strength of Fiber Reinforced Curved Composites**

Y. Özdemir .....88

### **Effect of functionalized polymer modifiers on structure and mechanical properties of degraded low-density polyethylene**

F. Amirov, İ. Movlaev, K. Seyidova .....97

### **Fabrication and Characterization of Al<sub>2</sub>O<sub>3</sub>-Cu Composites Prepared by Uniaxial Pressing**

P. Piotrkiewicz, J. Zygmuntowicz, M. Wachowski, I. Szachogłuchowicz, W. Kaszuwara, J. Szymańska .....106

### **Multiscale Stochastic Investigation of Low-velocity Impact Behaviour of Hybrid Composite Laminates**

A. Cinemawala, P.K. Karsh, V. Dave, A. Alok, J.K. Prusty, B. Mondal .....123

### **Method of manufacturing Cu-TiN composite materials**

D. Kołacz, Z. Rdzawski, J. Kulasa, W. Głuchowski, M. Łagoda, G. Muzia, K. Wiśniewski, M. Osadnik .....133

### **Layered composite heat exchangers – modelling of thermal and strength properties**

Ł.J. Orman, R. Chatys, S. Honus .....142

### **The influence of plasma spraying process parameters on microstructure and selected properties of novel NiCr-YSZ composite coating**

T. Kubaszek, B. Kościelniak, M. Góral, A. Zielinska, K. Świerk .....152

### **Production of layered composites for marine refrigerated containers**

T. Kostecki, E. Złoczowska, K. Bryll, C. Behrendt, M. Rogala, K. Gawdzińska .....160