



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

Session Title	Emerging Advanced Materials V	Session Code	Th-B2
Date and Time	2018-08-23 / 13:30 - 15:30		
Place	Room B		
Session Chair	TBA		

Th-B2-1

13:30 - 13:45

Multifunctional Core-Shell SiC/TiO₂, SiC/Li₄Ti₅O₁₂ Microcomposites as Reinforcement in Al Matrix: A Comparative Study on Microstructure, Mechanical and Damping Properties

Subhash Singh¹ and Kaushik Pal Pal²

¹Nat'l Institute of Tech. Jamshedpur, India, ²IIT, India

Th-B2-2

13:45 - 14:00

Damage Evolution and Fracture Prediction in Plasma Sprayed Coatings Subjected to Bending Fatigue Tests: An Acoustic Emission Method

Ian-nong Jing^{1,2}, Hai-dou Wang², Li-hong Dong², Guo Jin¹, Yue-lan Di², and Ya-wei Xu²

¹Harbin Engineering Univ., China, ²Academy of Armored Forces Engineering, China

Th-B2-4

14:15 - 14:30

Diluted HF Cleaning Process for Metal and Particle Contamination Removal from Silicon Wafer

Yu-Jin Lee¹, Dong-Hwan Lee¹, Hee-Jin Song¹, Sung-Hae Jang¹, Hyun-Tae Kim¹, Jae-Hwan Lee², Eun-Suck Choi², and Jin-Goo Park¹

¹Hanyang Univ., Korea, ²SK Siltron, Korea

Th-B2-5

14:30 - 14:45

A Study on the Reclamation of Silicon Carbide by Re-using Si Safer Sludge with Carbon at High Temperature

Sakib Tanvir Hossain, Woo-Gwang Jung, and Fatima Tuz Johra

Kookmin Univ., Korea

Th-B2-6

14:45 - 15:00

Improvement of Wear Resistance of CVD Diamond Films on WC-Co Alloy

Yeo-Ho Kim¹, Myeong-Jun Kim¹, Heon-Yul Ryu¹, Jung-Hwan Lee¹, Ji-Woo Kim², Da-bin Hyun², Hae-geun Jee², and Jin-Goo Park¹

¹Hanyang Univ., Korea, ²SAESOL Diamond Ind. Co. Ltd., Korea

Th-B2-7

15:00 - 15:15

Strength-Ductility Balance in Ultrafine-Grained (CoCrMnNi)₅₀Fe₅₀ Medium Entropy Alloy Having Fully Recrystallized Microstructure

Ibrahim Ondicho and Nokeun Park

Yeungnam Univ., Korea