

## Winners of Best Paper Award

Development of a Capillary-Based Preconcentration Device by using Ion Concentration Polarization

*by Dongwhi Choi, Dong Sung Kim (POSTECH)*

High Income Return and Safe Investments Through Financing of Energy Efficient Measures in the Industry

*by Robert Kasprovicz, Siegfried Stender, Thomas Bauernhans (Fraunhofer Inst. for Manufacturing Engineering and Automation)*

Mechanical Evaluation and FE Analysis of Natural Fiber Composites using Vacuum Infusion Molding Process

*by Dong-Woo Lee, Jung-Il Song (Changwon Nat'l Univ.), Byung-Keun Choi (Jetkorea Industrial Co.)*

Porous Copper with Capillary Performance and Gas Permeability Fabricated by Two-step Foaming Method

*by Jinming Ru, Bo Kong, Tongxiang Fan, Di Zhang (Shanghai Jiatong Univ.)*

Study of Super-hydrophobicity with Micro-pillar Array on Transparent Polydimethylsiloxane (PDMS) Fabricated by Polymer Casting

*by Chi-Vinh Ngo, Gaasuren Davaasuren, Hyun-Seok Oh, Doo-Man Chun (Univ. of Ulsan)*

## Winners of Best Poster Award

A Review on the Development of Variable Preload Devices for High Speed Spindle System

*by Dong-Hyeon Kim, Choon-Man Lee (Changwon Nat'l Univ.)*

Advancement of the Successive Suture Device: A Research for Improving Efficiency

*by Byung Gon Kim, Kyung Nam Kim, Yun Jin Kim, Semi Yun, Daehie Hong (Korea Univ.)*

Analysis of Interior Noise Characteristics for Operating High-Speed Train in Tunnel with Concreted Track

*by Hae Young Ji (Univ. of Science & Tech.), Dong Hoe Koo, Jae Chul Kim (Korea Railroad Research Inst.)*

Fabrication of Metallic Riblet Structures for Drag Reduction using Roll to Roll Electroforming Process

*by Taekyung Kim, Hokwan Kim, Heejin Nho, Shinill Kang (Yonsei Univ.)*

High-Throughput Screening and Design of Mullite Family Complex Oxide Catalysts via First Principles Calculation

*by Minwoo Kweun, Chenzhe Li, Yongping Zheng, Yoon Young Kim, (Seoul Nat'l Univ.), Kyeongjae Cho (Seoul Nat'l Univ., Univ. of Texas)*

Light Weight Design of EMU Carbody based on Material Selection Method and Size Optimization

*by Jeonggil Cho, Jeongseo Koo (Seoul Nat'l Univ. of Science & Tech.), Hyunseung Jung (Korea Railroad Research Inst.)*

Multi-stage Forging Process Design of Steering System Output Shaft for Reduction of Energy Consumption

*by Yong-Jin Choi, Sang-Kon Lee, Jeong-Hwan Yun, Jin-Woo Jeon, In-Kyu Lee, Da-Hye Kim, Jae-Wook Lee, Myeong-Sik Jeong (Korea Inst. of Industrial Tech.)*

Numerical Study on Flow and Heat Transfer in Conical Fluidized Bed Combustors

*by Hamada M. Abdelmotalib, Ali A. Hassan (Minia Univ.), Ik-Tae Im (Chonbuk Nat'l Univ.)*

Preparation of Pt-TiO<sub>2</sub> Composite Nanofibers by Electrospinning Technique

*by Kannan Seneekatima, Rojana Pornprasertsuk, Pornnapa Sujaridworakun (Research Unit of Advanced Ceramics)*

Suitable Addition of Steam as an Inhibitor for Control of Exothermic Behavior in Catalytic Reactor during SNG Synthesis

*by Yong Sul Kim, No-Kuk Park, Jae Young Park, Tae Jin Lee (Yeungnam Univ.)*

Surface Characterization of Unmodified and Plasma-modified Abaca Fibers

*by Marissa Paglicawan, Josefina Celorico, Jo Ann Sy (Industrial Tech. Development Inst.), Byung Sun Kim (Korea Inst. of Materials Science)*

Tensile Creep Behavior of CaO Added Mg-Al-Si Alloys

*by Young-Gil Jung, Young-Ok Yoon, Shae K. Kim, Hyunkyu Lim (Korea Inst. of Industrial Tech.), Do Hyang Kim (Yonsei Univ.)*

The Various Analysis Methods about Joint Performance on Diffusion Bonding Layer for the Fabrication of PCD-WC Tool

*by Ba Wi Jeong, Jeong Woo Park (Chosun Univ.)*

Warpage Analysis of Injection-molded Integrated Mold Frame Units for Slim Display Applications

*by Trieu Khoa Nguyen (Chonnam Nat'l Univ.), Chul Jin Hwang (Korea Inst. of Industrial Tech.), Bong-Ke Lee (Chonnam Nat'l Univ.)*

## Winners of Young Researcher Award

Chong Wen Tong (University of Malaya, Malaysia)

Dave (Dae-Wook) Kim (Washington State University, USA)

Keun Park (Seoul National University of Science and Technology, Korea)

## Winner of Kahp-Yang Suh Award

Hoon Eui Jeong (Ulsan National Institute of Science and Technology, Korea)