Winners of Best Paper Award

Development of a Capillary-Based Preconcentration Device by using Ion Concentration Polarization
by Dong-Hee Choi, Dong Sung Kim (POSTECH)

High Income Return and Safe Investments Through Financing of Energy Efficient Measures in the Industry
by Robert Kasprzak, 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-II 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 Jiaotong 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, Semin Yun, Doehie 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, Hoon Kwon, Hee Jin Nho, Shinil Kang (Yonsei Univ.)

High-Throughput Screening and Design of Mullite Family Complex Oxide Catalysts via First Principles Calculation
by Miwooo Kweon, Chulhee L, Yongjung Cheng, Yoon Young Kim, (Seoul Nat’l Univ.), Kyungsae Cho (Seoul Nat’l Univ.), Univ. of Texas

Light Weight Design of EMU Carbody based on Material Selection Method and Size Optimization
by Jeonggil Cha, Jeongsoo 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-Koo Lee, Jeong-Hwan Yun, Jin-Woo Jean, In-Kyu Lee, Do-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, Al A. Hassan (Minia Univ.), Ik-Tae Im (Chonbuk Nat’l Univ.)

Preparation of Pt-TiO₂ Composite Nanofibers by Electrospinning Technique
by Kannanut Seneekatima, Rongana Pornprasertsuk, Pornnapa Sugarsawarukun (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 Paganowan, Josefin 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 Oh Yoon, Shae K. Kim, Hyunjoo Lim (Korea Inst. of Industrial Tech.), Da Hyung Kim (Yonsei Univ.)

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