

ECD announces best paper, best poster winners from ICACC 2018

The Engineering Ceramics Division has announced the Best Paper and Best Poster winners from the ICACC 2018 meeting held last January in Daytona Beach, Florida. The awards will be presented during the plenary session at ICACC 2019. Congratulations to the authors of these award-winning papers and posters!

2018 Best Paper Awards:

First place

Erosion Behavior in a Gas Turbine Grade oxide/oxide Ceramic Matrix Composite, Michael J. Presby, N. Kedir, L.J. Sanchez, C. Gong, D.C Faucett, S.R. Choi; Naval Air Systems Command, Gregory Morscher; The University of Akron

Second place

Phase Field Modelling of Microstructural Changes in Ni/YSZ Solid Oxide Electrolysis Cell Electrodes, Martina Trini, Salvatore De Angelis, Peter Stanley Jørgensen, Anne Hauch, Ming Chen and Peter Vang Hendriksen; Technical University of Denmark

Third place

Evaluation of power generation from biomass using Solid Oxide Fuel Cell (SOFC) and downdraft gasifiers, Shimpei Yamaguchi, Kazuaki Katagiri, Takuya Ehiro, Tomoatsu Ozaki and Atsushi Kakitsuji; Osaka Research Institute of Industrial Science and Technology

2018 Best Poster Awards:

Joint first place

Reliable Measurement of Fracture Toughness of Armour Ceramics at the Microstructural Scale, J. Jiang*, S. Falco, N. Petrinic, R. I. Todd; University of Oxford, United Kingdom

Optimisation of SiCp/SiCf preforms prior to matrix formation using microwave enhance chemical vapour infiltration, M. Porter*¹, A. D'Angio¹, J. Binner¹, M. Cinibulk², B. Garcias Banos³, A. Aktas⁴;

1. University of Birmingham, Metallurgy and Materials, United Kingdom
2. Air Force Research Lab, USA
3. Universidad Politecnica de Valencia, DIMAS - ITACA Institute, Spain
4. National Physical Laboratory, United Kingdom

Second place

Raman spectroscopy experiments to characterize radiation induced defects in SiC/SiC composites, S. Agarwal², Y. Zhao*², S. J. Zinkle¹, W. J. Weber²;

1. University of Tennessee, Nuclear Engineering, USA
2. University of Tennessee, Material Science and Engineering, USA

Third place

Crack-Healing Ability and Strength Recovery of Ytterbium Disilicate Ceramic Reinforced with Silicon Carbide Nanofillers, S. T. Nguyen*¹, H. Iwasawa¹, H. Suematsu¹, L. He², T. Suzuki¹, K. Niihara¹, T. Nakayama¹;

1. Nagaoka University of Technology, Japan
2. Idaho National Lab, USA

Trustee Award

Transparent Superhydrophobic coating from silica spheres, Z. Li*¹; N. Li²; L. Pan²; H. Xu²;

1. High School Attached to Harbin Normal University, China
2. Harbin Institute of Technology, China