

Room 2

Session 2-2-1: OS21

Micro fabrications for functional surfaces I

OS21-01 Creating Pore-Gradient Ti6Al4V Alloys through the Fusion of Particle Dynamics and Powder Metallurgy
Yaole Cui, Asit Kumar Gain, Liangchi Zhang and Zhen Li

OS21-03 Mechanism of Surface Nanostructure Generation via Hot Water Treatment for Improving the Hybrid Joining of Galvanized Steel-Polymer
Jianxing Ren, Weiyang Chen, Fuminobu Kimura and Yusuke Kajihara

OS21-04 Development of optical trapping substrates for the capturing of microparticles
Masahiko Yoshino, Ryuji Yamasaki, Motoki Terano and Takashi Matsumura

OS21-05 Study on Fabrication of Functional Electromagnetic Shielding Material Based on Flake Carbonyl Iron Powder and Reduced Graphene Oxide
Wei-chi Chen, Hsiang-Yi Chung and Hung-Yin Tsai

Session 2-2-2: OS21

Micro fabrications for functional surfaces II

OS21-06 Applicability of Projection Lithography Using a Gradient-Index Lens Array to Thick Resist Patterning
Toshiyuki Horiuchi, Naoyuki Otsuka, Takeharu Fukuhara and Hiroshi Kobayashi

OS21-07 Lubrication Characteristics of Aluminum Alloy Surfaces Textured by Microvibration-assisted Cutting
Jun Shimizu, Ryuta Koakutsu, Takeyuki Yamamoto, Kazuki Kaneko, Teppei Onuki and Hirotaka Ojima

OS21-08 Possibility of Self-Organized Bacterial Micro-structure as Functional Surface inspired by Two-dimensional Pattern of *S. epidermidis*
Hayato Goto, Shuzo Masui, Masaki Michihata and Satoru Takahashi

OS21-09 Microfluidic Device of White Blood Cell Elimination for Capturing Circulating Tumor Cells - Prompting Cell Contact on Antibody Coated Surfaces -
Masanori Hayase, Takuya Okamura and Shuhei Ogawa

Session 2-2-3: OS21

Micro fabrications for functional surfaces III

OS21-10 Fabrication of Micro 3-D Structures using Electrical Discharge Deposition in Atmospheric Environment
Senryu Hayashi, Jun Shimizu, Takeyuki Yamamoto, Kazuki Kaneko, Teppei Onuki and Hirotaka Ojima

OS21-11 Effects of surface morphology of inkjet-printed MoS₂ nanoparticles on gas sensor characteristics
Takahiro Kono, Takumi Masuda, Soichiro Nao and Arata Kaneko

OS21-13 Tuning Cross-Linking Conditions of PDMS for Leak-Free Slip Action in SlipChip
Inaam Rafia, Bolotrade Marcela, Shunya Okamoto, Takayuki Shibata and Moeto Nagai

OS21-14 Spatially patterned laser through pixelated intensity modulation for fabrication of sub-wavelength surface structures
Lingyu Huang, Kang Xu and Shaolin Xu

OS21-15 Generation and Evaluation of Micro-Structured Surfaces for Hydrophilic Control
Akira Kakuta and Robin Shindo