

OS21 Micro fabrications for functional surfaces

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, Weiyan Chen, Fuminobu Kimura and Yusuke Kajihara
The University of Tokyo

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

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
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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
Tokyo Denki University

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
Ibaraki University

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

OS21-09 Microfluidic device of white blood cell elimination for capturing circulating tumor cell - Prompting cell contact on antibody coated surfaces -
Masanori Hayase, Takuya Okamura and Shuhei Ogawa
Tokyo University of Science

<p>OS21-10 Fabrication of Micro 3-D Structures using Electrical Discharge Deposition in Atmospheric Environment</p> <p>Senryu Hayashi, Jun Shimizu, Takeyuki Yamamoto, Kazuki Kaneko, Teppei Onuki and Hirotaka Ojima</p>
<p>OS21-11 Effects of surface morphology of inkjet-printed MoS₂ nanoparticles on gas sensor characteristics</p> <p>Takahiro Kono, Takumi Masuda, Soichiro Nao and Arata Kaneko</p> <p>Tokyo Metropolitan University</p>
<p>OS21-12 Fabricating micropatterned yttria-stabilized zirconia using UV nanoimprint lithography</p> <p>Takuto Wakasa, Takao Okabe, Naoki Shikazono and Jun Taniguchi</p> <p>Tokyo University of Science</p>
<p>OS21-13 Tuning Cross-Linking Conditions of PDMS for Leak-Free Slip Action in SlipChip</p> <p>Inaam Rafia, Bolotrade Marcela, Shunya Okamoto, Takayuki Shibata and Moeto Nagai</p> <p>Toyohashi University of Technology</p>
<p>OS21-14 Spatially patterned laser through pixelated intensity modulation for fabrication of sub-wavelength surface structures</p> <p>Lingyu Huang, Kang Xu and Shaolin Xu</p> <p>Southern University of Science and Technology</p>
<p>OS21-15 Generation and Evaluation of Micro-Structured Surfaces for Hydrophilic Control</p> <p>Akira Kakuta and Robin Shindo</p> <p>National Institute of Technology, Tokyo Colleges</p>
<p>OS21-16 Efficient Processing of Consistent Inverted Pyramid Microstructure on Monocrystalline Silicon Surface</p> <p>Qingwei Wang, Peng Yao, Dongkai Chu, Shuoshuo Qu, HongTao Zhu, Hanlian Liu, Bin Zou and Chuanzhen</p>
<p>OS21-17 Sol Gel Glass Micro and Metasurface Fabrication</p> <p>Xiaohua Liu, Xiaolin Li, Tiantong Chen, Muye Niu, Weinan Xu, Shih-Chi Chen and Allen Y Yi</p> <p>Chinese University of Hong Kong and The Ohio State</p>