

Poster Session I**March 3 14:10 – 15:10**

No.	Title	Author
3-1	Burst Frequency Effect of DBD Plasma Actuator on the Separation Control over an Airfoil	Kengo Asada
3-2	Contributions of Compression Waves to the Feedback-loop Mechanism in Supersonic Open Cavity Flows	Weipeng Li
3-3	Development of Dynamical Task Allocation and Reallocation for Multiple Guidance Service Robots	Guanghai Li
3-4	Photoelectrochemical Properties of LaTiO ₂ N Electrodes under Visible-Light	Naoyuki Nishimura
3-5	Design and Performance Verification of an In-plane XYθ Micro-Positioning Stage	Donghyun Hwang
3-6	Study of Magnetostriction vibration assisted micro aspherical polishing	Jiang Guo
3-7	Ab initio calculation of cation migration energetics in sapphire	Nobuaki Takahashi
3-8	Direct Imaging of Atomic Structures of the Metal-Oxide Interfaces:Pt Atoms on MgO(100) Surface	Teng-Yuan Chang
3-9	Hyper-Multi Spectral Data Fusion Based on Unmixing	Naoto Yokoya
3-10	Kinematics of quasi-coherent vortical structure in spanwise wall-oscillation	Aiko Yakeno
3-11	Green-tuff dissolution experiment under geological CO ₂ sequestration conditions : Implication for long-term CO ₂ fixation efficiency in the Green-Tuff region.	Yutaro Takaya
3-12	Fabrication of metallic structures on curved substrate using optical softlithography and electroplating.	Jongho Park
3-13	Diameter controlled CVD synthesis of single-walled carbon nanotubes	Theerapol Thurakitserree
3-14	Thermal condition of bending and buckling of a single-walled carbon nanotube	Hee yuen Koh
3-15	Proton Transport in Hydrogen Bond Network of Confined Water	Nobuya Miyoshi
3-16	HIFU assisted US-guided visual servoing for respiratory motion compensation	Joonho Seo

3-17	Statistical deformable model creation using Sphere-Attribute-Image	Toki Saito
3-18	Attitude Estimation of CubeSat from Health Monitoring Sensor Data	Kensuke Shimizu
3-19	Optimal Satellite Formation Reconfiguration Strategy Based On Impulsive Control	Jihe Wang
3-20	Effect of Polymers on the Anisotropic Assembly of Silica Nanospheres	Shujun Zhou
3-21	Research on the anisotropy behavior of dislocation nucleation from a sharp corner in copper	Yu Sun
3-22	3D Numerical Simulation Using k-ε Model for Swirling Flows in Vortex Tube	Mikiro Motoe
3-23	A Study of Image Segmentation Using Eye Tracking Data	Akira Egawa
3-24	Profile Measurement of Large Aspheric OPTICAL Surface by Scanning Deflectometry with Rotatable Mirror	Muzheng Xiao
3-25	Length Measurement Using Interference of Multiple Pulse Trains of a Femtosecond Optical Frequency Comb	Dong Wei
3-26	Combustion Characteristics of Afterburner in Pre-Cooled Turbo Jet for Hypersonic Aircraft	Shunsuke Nishida
3-27	Pulsed low-intensity ultrasound and transforming growth factor-β3 on scaffold-free cartilage tissues	Stephanie Yin Wai Ting
3-28	Thermal Transport and the Effect of Defects in Carbon Nanofibers and their Components	Derek Ashley Thomas
3-29	First-Principles Study of AC Transport in Metallic Carbon Nanotubes with Defects	Daisuke Hirai
3-30	Self-organization of photo polymer	Masahiro Yamaguchi
3-31	Aggregation of Silica Nanoparticles in Basic Salt Solutions: Bimodal Size Distribution	Fumiya Nikaido
3-32	Mechanical behavior and microstructural evolution during compression test of semi-solid SKD61 tool steel.	Yi Meng
3-33	The challenges of piezoelectric micro power generators	Yue Feng

Poster Session II**March 4 11:00 – 11:50**

No.	Title	Author
4-1	Extraction of Design Information from Pareto-Optimal Solutions using Genetic Programming	Tomoaki Tatsukawa
4-2	Flight load analysis for study of innovative composite fuselage	Keisuke Umezawa
4-3	A Strategy for Fast Grasping of Unknown Objects using Range Sensor and Partial Shape Information	Zhaojia Liu
4-4	Korean EIP Pilot Project Analysis	Seok Jung
4-5	Implementation of an admittance controlled 2-dof haptic device using electrostatic motors	Fumitaka Kimura
4-6	Hybrid integration of LiNbO ₃ waveguide chips on Si substrates	Ryo Takigawa
4-7	Atomic structure analysis of CeO ₂ Σ3 grain boundary	Bin Feng
4-8	Fabrication of Stressed Nanomechanical Resonators Utilizing Stiction Phenomena	Hiroki Ashiba
4-9	Image degradation diagnosis for ultra-micro satellite by statistical analysis of the telemetry data	Junichi Kuwabara
4-10	Review of State-of-the-art Energy Harvester	Mingyuan Gao
4-11	Development of TEM - AFM and Observation	Chun Keat Yeoh
4-12	Chemical vapor deposition synthesis of graphene on Ni film using ethanol and dimethyl ether	Bo Hou
4-13	Characterization of Mode-Dependent Phonon Conduction by Molecular Dynamics Simulations	Takuma Shiga
4-14	Single Bubble Bouncing on a Free Surface - Focusing on Surface Energy Transfer -	Toshiyuki Oyama
4-15	Hand-Eye Coordination of Surgical Robotic System Under the Microscope	Young Min Baek
4-16	Optical fiber sensing technique for simultaneous strain and temperature distribution measurement	Daichi Wada
4-17	Attitude determination and control system for the nano astrometry satellite “Nano-JASMINE”	Takaya Inamori
4-18	Applications of space-borne GPS receiver for nano-satellites	Yoshinori Mikawa

4-19	Innovative Support System for Future Engineering Design	Hao Wang
4-20	Manipulator System Selection Based on Evaluating Task Completion Time and Cost	Yanjiang Huang
4-21	Homogeneous and heterogeneous dislocation nucleation: A comparison	Hasan Aftab Saeed
4-22	Multiscale Analysis of SiC-CVD Process	Yasuyuki Fukushima
4-23	Long-Distance Transport Flight with Vertical Takeoff and Landing	Miles Colman
4-24	Multi-probe scanning system comprising three laser interferometers and one autocollimator for measuring multiple motion errors of X-Y table in micro-coordinate measuring machine	Ping Yang
4-25	Application of Distributed Optical Fiber Sensing to Cure Monitoring of Carbon/Epoxy Composite	Yusaku Ito
4-26	Estimating Fatigue Crack Initiation of Aluminum Die Cast Alloy using Image Based Finite Element Analysis	Sujit Bidhar
4-27	Transient currents in molecular systems weakly coupled with electrodes.	Wei Liu
4-28	Space charge layers at metal/electrolyte interfaces in solid oxide fuel cells: a first principles-based analysis	Shusuke Kasamatsu
4-29	An analysis of hydrogen absorption effects on the transmittance of sub-wavelength palladium hole arrays with different shapes and thicknesses	Etsuo Maeda
4-30	Precipitation Dynamics of Semiconductive Organic Molecules in Solution during Drying	Keisuke Oku
4-31	Springback of Ultra-Thin Metal Sheet after Cold and Warm Forming	Katsuyoshi Ikeuchi
4-32	High rate and high yield silicon deposition from SiHCl ₃ under mesoplasma condition	SuDong Wu
4-33	Ab initio calculation of electronic structure, magnetism and ideal strength for the thiogermanates [(CH ₃) ₄ N] ₂ FeGe ₄ S ₁₀ under isotropic and shear deformation	Juan Wang