

## Poster Session I April 26 14:05~15:05

Poster No.	Presentation title
	Authors' name
26-1	Righting moment of a three dimensional wing with roll angles in surface effect
	Makoto KANEHIRA and Hiromichi AKIMOTO
26-2	Hydrogen Afterburner of Pre-Cooled Turbo Jet for Hypersonic Transportation
	Shunsuke NISHIDA, Hideyuki TAGUCHI, Takayuki KOJIMA, Motoyuki HONGO, Osamu IMAMURA, George IANUS, Masafumi UTSUMI, Takeo OKUNUKI, Mikiya ARAKI and Mitsuhiro TSUE
26-3	Preparation of Anisotropic Silica Nanoparticles via Controlled Assembly of Preformed Spherical Seeds
	Junzheng WANG, Ayae SUGAWARA, Atsushi SHIMOJIMA and Tatsuya OKUBO
26-4	Computational Study on Electronic Transport Properties of Molecular Bridge at Room Temperature in Aqueous Solution
	Arihiro TAWARA, Tomofumi TADA and Satoshi WATANABE
26-5	Reactive transient liquid phase bonding between Mg alloys and steels
	Toshio ARAKI, Masataka KOBAYASHI, Syoichi NAMUBU, Junya INOUE and Toshihiko KOSEKI
26-6	Reaction pathway analysis on dislocation nucleation from a sharp corner in copper
	Yu SUN, Satoshi IZUMI and Shinsuke SAKAI
26-7	Enhancement of UV photoluminescence and conductivity of ZnO nanowires by hydrogen plasma treatment
	Miao ZHONG, Yanbo LI, Ryohei UCHINO, Takero TOKIZONO, Ichiro YAMADA and Jean-Jacques DELAUNAY
26-8	Study of Numerical Wind Simulation of Complex Terrain Focusing on Inlet Condition
	Takeshi KAMIO, Makoto IIDA and Chuichi ARAKAWA
26-9	Possibility of application of mems technology for wheel/rail contact problems in railway vehicles
	Chiehjen HUNG and Yoshihiro SUDA

26-10	Development of an Electrostatic Master-slave Mechanism Takuya HOSOBATA, Akio YAMAMOTO and Toshiro HIGUCHI
26-11	Femtosecond optical frequency comb's temporal coherence characteristic-based interferometers Dong WEI, Satoru TAKAHASHI, Kiyoshi TAKAMASU, and Hirokazu MATSUMOTO
26-12	Discourse Analysis for Considering Side-Stories in Conversations Hiroki YAMAGUCHI, Yukio OHSAWA and Yoko NISHIHARA
26-13	Numerical Simulation of Wind Wave Generation Tomoyuki HIROBE and Takafumi KAWAMURA
26-14	Geological and Social-Scientific Assessments of the Potential Sites of CO2 Basaltic Aquifer Storage Yutaro TAKAYA, Kentaro NAKAMURA and Yasuhiro KATO
26-15	Toward Constructing an Importance Map of an Image Akira EGAWA and Susumu SHIRAYAMA
26-16	Computational Analysis of Unsteady Flow-field Induced by DBD Plasma Actuator in Burst Mode Kengo ASADA and Kozo FUJII
26-17	Chondrogenesis of scaffold-free human bone-marrow mesenchymal stem cells through compressive loading Stephanie Yin Wai TING, Katsuko FURUKAWA and Takashi USHIDA
26-18	Transition Pathway Analysis of Homogeneous Dislocation Nucleation in a Perfect Silicon Crystal Hasan Aftab SAEED, Satoshi IZUMI, Shotaro HARA and Shinsuke SAKAI
26-19	Sorting Single-Walled Carbon Nanotubes by Density Gradient Ultracentrifugation Method Pei ZHAO, Georgia LAGOUDAS, Erik EINARSSON, Shohei CHIASHI, Junichiro SHIOMI and Shigeo MARUYAMA
26-20	Calcination of Low-grade Laterite for Concentration of Ni by Magnetic Separation Jungah KIM, Gjergj DODBIBA, Hideaki TANNO and Toyohisa FUJITA
26-21	Numerical simulation of sound radiated from a propeller fan Ryo TAKAYAMA and Chisachi KATO

26-22	The Mapping Model of Employee on Hospital job based on Competence
	Ryoko SHIMONO, Satoko TSURU and Yoshinori IIZUKA
26-23	A transfer reinforcement learning method for agent collapse avoidance
	Wu MIN and Asama HAJIME
26-24	Radiation heat transfer control using MEMS electrostatic actuator
	Ai UENO and Yuji SUZUKI
26-25	Consistent segmentation of 3D models
	Caiyun YANG, Yutaka Ohtake and Hiromasa SUZUKI
26-26	Mathematical Model of the neuro-modulator for aggressive behavior of cricket
	Shiro YANO, Yusuke IKEMOTO and Hajime ASAMA
26-27	Controlled CVD synthesis of single-wall carbon nanotubes on zeolite
	Bo HOU, Xiang RONG, Erik EINASSON, Junichiro SHIOMI and Shigeo MARUYAMA

### Poster Session II April 27 14:25~15:25

Poster No.	Presentation title
	Authors' name
27-1	Research of microstructural evolution during semisolid deformation of high carbon Fe alloys
	Yi MENG and Sugiyama YANAGIMOTO
27-2	Dynamic buckling under impulsive loading
	Kazuyuki IDE and Takahira AOKI
27-3	Redesigning robots from the ethics level
	Kaira SEKIGUCHI and Koichi HORI
27-4	Self-Assembling Silica Nanoparticles (SNPs) via Ice-Templating Approach
	Shujun ZHOU, Tatsuya OKUBO and Atsushi SHIMOJIMA
27-5	Analysis of Recall of the Electric Consumer Products and Prevention of the accident by scenario
	Toshio MIYAMURA
27-6	Current dynamics in a single-level quantum dot coupled with one/two electrodes
	Wei LIU, Kenji SASAOKA, Takahiro YAMAMOTO and Satoshi WATANABE

27-7	A Multi-probe Measurement Method to Evaluate the Yaw and Straightness Errors of X-Y Stage on High Precision CMM
	Ping YANG, Shusaku SHIBATA, Tomohiko TAKAMURA, Satoru TAKAHASHI, Kiyoshi TAKAMASU, Osamu SATO, Sonko OSAWA and Toshiyuki TAKATSUJI
27-8	Simulation of four-probe resistance measurements in nanoscale
	Asako TERASAWA, Keiji TOBIMATSU, Tomofumi TADA, Takahiro YAMAMOTO and Satoshi WATANABE
27-9	A molecular dynamics study of fcc-bcc phase transformation kinetics of iron
	Shinji TATEYAMA, Yasushi SHIBUTA and Toshio SUZUKI
27-10	Sol-gel method for thin-film piezoelectric power generation device
	Yue FENG and Yuji SUZUKI
27-11	Evaluation of Gas pore interaction on fatigue life using Image based Finite Element Analysis of Aluminum Die cast
	Sujit BIDHAR and Nobuhiro YOSHIKAWA
27-12	The application of Vertically Aligned Single-Walled Carbon Nanotube in Rarefied Gas Flow and Development of Molecular Beam Source
	Nobuya MIYOSHI, Ikuya KINEFUCHI, Shu TAKAGI and Yoichiro MATSUMOTO
27-13	In-situ measurement of the formation of conductive organic thin films during solvent evaporation
	Keisuke OKU, Susumu INASAWA, Yoshiko TSUJI and Yukio YAMAGUCHI
27-14	On-line rapid unknown object identification and grasping
	Zhaojia LIU and Jun OTA
27-15	Algorithm for 2-Dimensional Super-Resolution Optical Inspection for Semiconductor Defects by Using Standing Wave Illumination
	Ryota KUDO, Satoru TAKAHASHI and Kiyoshi TAKAMASU
27-16	Nanometer Profile Measurement of Large Aspheric Surface -Simulation of Error Analysis and Experimental Verification of Measuring Method Using Autocollimator and Rotatable Mirror-
	Muzheng XIAO, Satomi JUJO, Satoru TAKAHASHI and Kiyoshi TAKAMASU
27-17	Capacitive rotary position sensor with resolvers compatibility
	Fumitaka KIMURA, Akio YAMAMOTO and Toshiro HIGUCHI

27-18	Screw-Driven Multi-Channel Peristaltic Pump for Pneumatic Micro Actuator Systems
	Wonsei RHIE and Toshiro HIGUCHI
27-19	Copper Recovery by Carbonization from Printed Cuircuit Board
	Hiroyuki ONO, Gjergj DODBIBA and Toyohisa FUJITA
27-20	Gravity-driven flows of carbon dioxide sequestered in a two-layered porous medium
	Takashi GODA and Kozo SATO
27-21	An effective method to discover emergent <b>chance</b> in <b>chance</b> discovery for advanced systems innovation
	Hao WANG, Yukio OHSAWA and Yoko NISHIHARA
27-22	X ray CT image segmentation using structure analysis
	Hiroyuki HISHIDA, Takashi MICHIKAWA, Yutaka OHTAKE and Hiromasa SUZUKI
27-23	Localized Anodization of Aluminum for the Formation of Aluminum/Alumina Patterns
	Jongho PARK, Jacques FATTACCIOLI, Nobuyuki TAKAMA, Hiroyuki FUJITA, and Beomjoon KIM
27-24	Development of an Actuator using MR Magnetic Field: Second Prototype Evaluation
	Deddy Nur ZAMAN , T. SUZUKI, E. KOBAYASHI and I. SAKUMA
27-25	Thin film deposition using Plasma Based Ion Implantation (No information available at time of production.)
	Wonsoon PARK and Junho CHOI
27-26	Multi-Objective Design of Flapping Wing Motion for Micro Air Vehicle
	Ittetsu INUZUKA and Shinobu YOSHIMURA
27-27	Attitude determination and control system for the nano astrometry satellite "Nano-JASMINE"
	Takaya INAMORI, Nobutada SAKO and Shinichi NAKASUKA