

Poster Session (17th bldg. Nexus Hall)

Sunday, August 27, 2017

★Part 1 11:00~12:30 (Odd number)

★Part 2 15:00~16:30 (Even number)

* indicates nominated presentations to Best Poster Award

- P001 Synthesis of inorganic-organic hybrid crystals composed of decavanadate and a surfactant with π electrons
Toshiyuki Misawa, Minako Taira, Katsuhiko Fujio, Takeru Ito
- P002* Engineering of vascularized tubular myocardial tissues in vitro by using cell sheet technology
Shogo SHIMIZU, Hidekazu SEKINE, Kazunori SANO, Katsuhisa MATSUURA, Eiji KOBAYASHI, Shinjiro UMEZU, Tatsuya SHIMIZU
- P003 Endo-M potential to assemble N-linked oligosaccharides on β -CyDs branched with seven-glucose moieties
Yusuke TOMABECHI, Junki NAKAGAWA, Mikio WATANABE, Yoshiki ODA, Kenji YAMAMOTO, Takashi YAMANOI
- P004 Study on polymer structure of chemical admixture by Dynamic light scattering method
Daiki TAKEHISA, Mizuki TAKIGAWA, Rio KITA, Shigeyuki DATE
- P005 Experimental Study on Maglev System for Bending Ultra-Thin Steel Plate: Fundamental Consideration on Levitation Performance under Vibration of Electromagnets
Makoto TADA, Takayoshi NARITA, Hideaki KATO, Hiroyuki MORIYAMA
- P006 Energy Efficient and Reliable Fan System in Sarawak Cement Manufacturing Plant
Mohd Danial IBRAHIM, Muhammad Shukry FASIHUDDIN, Zalikha Farhah ISMAIL
- P007 Surface Modification of Highly Gas Permeable Membrane Using Nanosheets of Aromatic Polymers Containing Ionic Liquid Moiety
Botakoz SULEIMENOVA, Chihiro UMEDA, Yosuke OKAMURA, Yu NAGASE
- P008* Up-conversion Luminescence Properties of Various Host Crystals and Relationship of the Crystal Structure
Sayaka TAMURA, Koji TOMITA, Yasushi SATO, Makoto KOBAYASHI, Masato KAKIHANA
- P009 Study on setting accelerator of nanoparticles in concrete
Takuya HOSHINA, Nozomi NAKAJIMA, Hiromitsu KOYAMA, Shigeyuki DATE
- P010 Characterization of the monoclonal antibody against SLA-1 allotypes
Shino Ohshima, Asuka Miyamoto, Atsuko Shigenari, Rihito Kinami, Masaki Takasu, Tatsuya Matsubara, Hitoshi Kitagawa, Takashi Shiina, Asako Ando, Yoshie Kametani
- P011 Edge Supported Electromagnetic Levitation System for Steel Plate with Thickness of Micro Order: Experimental Consideration on Levitation Perform during Levitation
Yoshiho ODA, Masahiro KIDA, Toshiki SUZUKI, Yasuaki ITO, Takayoshi NARITA, Hideaki KATO, Hiroyuki MORIYAMA
- P012 Evaluation of grooved nanosheets for neural cell culture by gene expression
Mahoko Ueda, Asako Otomo, Yosuke Okamura, Arihito Hasebe, Toshinori Fujie, Shinji Hadano, So Nakagawa
- P013 Frictional Properties of $\text{TiB}_2\text{-MoS}_2$ Composite Films Heated in Ambient Atmosphere
Masao Kohzaki, Naoki Ninomiya
- P014 Synthesis of biocompatible polyimides and the fabrication of nanosheets as coating agents
Haruki OKA, Ryo MATSUNAGA, Yosuke OKAMURA, Yu NAGASE
- P015 A study on hybrid system for ultra-compact racing car: Fundamental consideration on traction force
Yukinao Sato, Hideaki KATO, Takayosi NARITA

- P016 Analysis of Solid-liquid Multiphase Flow with Collision and Adhesion Effects using Immersed Boundary Method
Mamoru HOSAKA, Takayuki NAGATA, Shun TAKAHASHI, Kota FUKUDA
- P017 Effects of curing conditions and addition of fine blast furnace slag powder on the initial performance of concrete using expanding material
Nozomi Nakajima, Daiki Takehisa, Shin-ichiro Hashimoto, Shigeyuki Date
- P018 Production of specific IgG against HER2 peptide is decreased in NOG-IL4-Tg mice transplanted with breast cancer patients PBMC
Asuka Miyamoto, Ikumi Katano, Ryoji Ito, Banri Tsuda, Yutaka Tokuda, Sonoko Habu, Mamoru Ito, Yoshie Kametani
- P019* An On-chip Metabolism Model Replicating Physiological Parameters during Pharmacokinetic Study
Tatsuto ONO, Shinji SUGIURA, Teruo FUJII, Yasuyuki SAKAI, Hiroshi KIMURA
- P020 A Study on Levitation Characteristics of Magnetically Levitated Steel Plate by Horizontal Positioning Control In the Case of Using 1-DOF Model
Masahiro KIDA, Toshiki SUZUKI, Yoshiho ODA, Yasuaki ITO, Takayoshi NARITA, Hideaki KATO, Hiroyuki MORIYAMA
- P021 Optimal Arrangement on Hybrid Magnetic Levitation System for Thin Steel Plate Using PM: Fundamental Consideration on Plate Thickness of Thin Steel Plate
Yasuaki ITO, Toshiki SUZUKI, Masahiro KIDA, Yoshiho ODA, Takayoshi NARITA, Hideaki KATO, Hiroyuki MORIYAMA
- P022* Fabrication and Evaluation of Painless Microneedle with Polygonal Cross-Section
Kentarō Miyachi, Yutaka Yasoda, Ganesh Kumar Mani, Kazuyoshi Tsuchiya
- P023 Antireflection and promotion of plant growth properties of titanium oxide and polytetrafluoroethylene laminate prepared by r.f. sputtering
Yuta SHIMOYAMA, Satoru IWAMORI
- P024* Formation of ligament analogs by applying tension to ligament secretions
Tatsuya Yamaguchi, Ryo kunizawa, Yuta Onozuka, Kengo Shimozaki, Junsuke Nakase. Kenji Oshima, Kojun Torigoe, Toru Kuzumaki
- P025 Non-destructive analysis of earthenware structures excavated from the Dyadovo site in Bulgaria using X-ray microtomography
Tomoki Takayama, Yu-ki Suzuki, Masao Semmoto, Toru Kuzumaki"
- P026* Surface Properties of Composite of Collagen Nanosheets and Artificial Dermis
Atsushi IGARASHI, Hideaki SUMIYOSHI, Yutaka INAGAKI, Yosuke OKAMURA
- P027* Analyses on Adhesiveness, Followability, and Young's Modulus of Polymer Nanosheets
Daiki SAKAGAMI, Hong ZHANG, Yosuke OKAMURA
- P028* Vibration Assisted Microneedle Sensor for Single Cell pH Measurement
Soichi Doi, Kousei Miyakoda, Yutaka Yasoda, Ganesh Kumar Mani, Kagemasa Kajiwara, Minoru Kimura, Kazuyoshi Tsuchiya
- P029 Front Side Member for Automotive with Bent Part: Fundamental Consideration on Impact Characteristics of Crash Box
Akiho FUTATSUGI, Hideaki KATO, Takayoshi NARITA, Hiroyuki MORIYAMA
- P030* Fabrication of Porous Polymer Nanosheets for a Live Imaging Tool of Floating Cells
Takuto AOKI, Hong ZHANG, Yosuke OKAMURA

- P031 Two-phase Flow Analysis with Contact Angle for a Heat pipe
Shuta IDE, Tsubasa MATSUI, Takuya INOUE, Shun TAKAHASHI
- P032 Driving Assist System for Ultra-Compact EVs with SBWS: Experimental Consideration on Evaluation of Muscle Burden Measuring EMG
Xiaojun LIU, Hideaki KATO, Takayoshi NARITA, Hiroyuki MORIYAMA
- P033 Improvement of gas separation property for highly permeable membrane by nanosheet coating
Chihiro UMEDA, Tatuma ODA, Botakoz SULEIMENOVA, Shinichi KOGUCHI, Yousuke OKAMURA, Yu NAGASE
- P034 Zebrafish as a model of human genetic muscle diseases
Hiroaki MITSUHASHI, Akihiro ICHIKAWA, Kana MATSUZAKI, Kouki WADA, Satomi ICHINOSAWA, Aiki FUKUDA
- P035* Preparation and characterization of electropolymerized PEDOT thin films with controlling solution temperature and additional surface treatment
Yuuhei SEKI, Momoko TAKAHASHI, Masayuki TAKASHIRI
- P036 In Situ Observation at Brazing Process of Copper Alloy by X-ray Transmission System
Hiroki Okada, Akito HIRONO, Yasuyuki MIYAZAWA, Fumio KANAZAKI
- P037 Noncontact Guide System in Manufacture Process for Zinc Coated Continuous Steel Plate: Optimum Electromagnet Arrangement by Considering Numerical Analysis
Takahiko BESSHO, Takayoshi NARITA, Hideaki KATO, Hiroyuki MORIYAMA
- P038 Pregnant humanized mouse as a model of human pregnant immunity
Yusuke OHNO, Mika KOJIMA, Rihito KINAMI, Shin-ichiro IZUMI, Ryoji ITO, Mamoru ITO, Yoshie KAMETANI
- P039 Polymer Thin Films Adsorbed on Patterned Solid Substrate
Hong ZHANG, Yosuke OKAMURA
- P040 Improvement of tensile strength of CNT yarn by Joule heating
Takuya Murayama, Norio Mori, Takaya Tezuka, Motoyosi Obata, Toru Iijima, Daiki Chujo, Yasuhiko Hayashi, Toru Kuzumaki
- P041 Evaluation of Soldering Ability of Pb-free Solder by X-ray CT
Hiroki HANAIZUMI, Kyohei FURIHATA, Yasuyuki MIYAZAWA
- P042* Fabrication and Evaluation of Polysaccharide Nanosheets Carrying Cyclic Oligosaccharides
Shoko TSUCHIYA, Atsushi NAKAGAWA, Yosuke OKAMURA
- P043 Magnetic nanoparticle-based nano-grating guided-mode resonance biosensors
Ryoji YUKINO, Sharma JAIYAM, Tsukasa TAKAMURA, Joby JOSEPH, Adarsh SANDHU
- P044 Synthesis of polyamide/PEO block copolymers and the application to CO₂ separation membrane using nanosheet coating
Tooru Isono, Taishi Suzuki, Yosuke Okamura, Yu Nagase
- P045* Surface Modification of Water-Repellent Nanosheets for *In Vivo* Tissue Imaging
Kenji YARINOME, Hong ZHANG, Takuto AOKI, Ryosuke KAWAKAMI, Tomomi NEMOTO, Yosuke OKAMURA
- P046 Switching Control System Using Active Seat Suspension: Experimental Consideration on HRV
Ayato ENDO, Keigo IKEDA, Hideaki KATO, Takayoshi NARITA, Hiroyuki MORIYAMA
- P047 Active Seat Suspension for Ultra-Compact Electric Vehicle: Fundamental Consideration on Relationship Between Jerk and Psychological Index
Keigo IKEDA, Ayato ENDO, Ryosuke MINOWA, Hideaki KATO, Takayoshi NARITA, Hiroyuki MORIYAMA

- P048 Composite divertor materials in Prototype Nuclear Fusion Reactor
Takuya Washihira, Kengo Yamaguchi, Akira Tonegawa, Yoshihito Matsumura
- P049* Design of a Cascade Traveling Wave Thermoacoustic Engine Driven by Low Temperature Gradient through Numerical Calculation
Ryunosuke HASEGAWA, Shinya HASEGAWA
- P050 Numerical Study of Heat Exchanger's Plate Spacing for a Traveling-Wave Thermoacoustic Engine
Esmatullah MAIWAND SHARIFY, Shinya HASEGAWA, Kazuto KUZUU, Shun TAKAHASHI
- P051* Aerodynamic Characteristics and Flow Field of Delta Wings with the Canard
Saya MOCHIZUKI, Gouji YAMADA
- P052* Numerical Calculation of Effect of Heat Leak on a Thermoacoustic System with a Tapered Tube
Mariko SENGA, Shinya HASEGAWA
- P053* Measurement of Entropy Production of Forced Synchronization in a Standing Wave Thermoacoustic Engine
Mariko SENGA, Shinya HASEGAWA
- P054* Transition of Entropy Production from Fundamental Oscillation to Quasiperiodic Oscillation in a Standing Wave Thermoacoustic Engine
Mariko SENGA, Shinya HASEGAWA
- P055 Working together to reveal the Technology of Mankind - An Interdisciplinary Collaboration between MNTC and AENET (Ancient Egyptian and Near Eastern Collection at Tokai University)
Kyoko YAMAHANA
- P056 Investigation of Degradation Phenomena Induced by Applying Voltage for Perovskite Solar Cells
Tetsuya KANEKO, Chihiro YAMAMOTO, Tetsuhiro KATSUMATA, Masao ISOMURA
- P057 Ancient Egyptian Coins-an investigation of the production method
Miyu Tomabechi, Kyoko Yamahana, Helmut Takahiro UCHIDA
- P058 Bioinformatics Computational Systems for DNA Data Analyses
So NAKAGAWA, Mahoko TAKAHASHI UEDA, Kirill KRYUKOV, Tadashi IMANISHI
- P059* Live cell imaging analysis of floating cells using ultra-thin polymer film
Kanae HATANO, Kazuya KABAYAMA, Yosuke OKAMURA, Koichi FUKASE
- P060* Fabrication of Nanosheets Using Water-Soluble Film
Shinichi Tajima, Yosuke Nakano, Yoshitomo Kai, Yosuke Okamura, Hiromu Hashimoto, Yuta Sunami
- P061 Phase Transition Properties of VO₂ Thin Films on Conductive TiN Layers
Ryuta TOBE, Tomohiro AOTO, Kenta SATO, Md. Suruz Mian, Kunio OKIMURA
- P062 A Fundamental Study of Flow simulation around a Kidney Stone by Using Immersed Boundary Method
Ken Shimizu, Mamoru Hosaka, Yuki Kato, Takayuki Nagata, Shun Takahashi, Kota Fukuda, Mitsuru Komeya, Hiroshi Kimura, Junichi Matsuzaki
- P063* DEVELOPMENT OF MICRO FOOD PRINTER AND EVALUATION OF PRINTED FOOD
Yuya SUZUKI, Kensuke TAKAGISHI, Shinjiro UMEZU
- P064 Application of electrochemical hydrogen loading technique for internal stress control in magnetostrictive thin films
Helmut Takahiro UCHIDA, Yoshihito TSUKAGOSHI, Sagiri TAKASE, Masatoshi INOUE, Yoshihito MATSUMURA
- P065* Aerodynamic Characteristics of a Variable-Wing Glider for Planetary Exploration
Yuichiro OSAWA, Tomoyuki KOYAMA, Chihiro TAKAHASHI, Gouji YAMADA, Hiromitus KAWAZOE

- P066 Hydrophilic Control for Flexible Device Manufacture Using Print Technology
Yuta IKEDA, Hiromu HASHIMOTO, Masayuki OCHIAI, Yuta SUNAMI
- P067 Investigation of a Gas-Particle Flow with Particle-Wall Collisions by Immersed Boundary Method
Yusuke MIZUNO, Takayoshi KUBOTA, Shun TAKAHASHI, Kota FUKUDA
- P068* Radiation Characteristics of a Shock induced Argon Plasma with Precursor phenomenon
Chihiro TAKAHASHI, Gouji YAMADA
- P069 Aging Kinetics of Poly(styrene) Thin Film Studied by Temperature Scanning Capacitometry
Kaito SASAKI, Daiki SAKAGAMI, Hong ZHANG, Rio KITA, Naoki SHINYASHIKI, Shin YAGIHARA, Yosuke OKAMURA
- P070 Dielectric Study of Cooperative Polymer Chain Dynamics in Poly(L-lactic acid) Thin Film
Kaito SASAKI, Daiki SAKAGAMI, Hong ZHANG, Rio KITA, Naoki SHINYASHIKI, Shin YAGIHARA, Yosuke OKAMURA
- P071 Effects of ion bombardment on sputtered thin films
Yoshihito Tsukagoshi, Kohei Yatagai, Helmut Takahiro Uchida, Yoshihito Matsumura
- P072 Effects of hot filament emitter on Fe-based alloy thin film formation by ion-plating process
Miki Shinooka, Akitaka SAKAI, Nobuaki ARAI, Helmut Takahiro UCHIDA, Yoshihito MATSUMURA
- P073 The Effect of substrate temperature for thermal and true stress on sputtered thin films.
Karin Ano, Yoshihito Tsukagoshi, Helmut Takahiro Uchida, Yoshihito Matsumura
- P074 Comparison of Expression of TrkB Isoform between Fetal Growth Restriction (FGR) and Fetal Abnormality (non FGR) in the Placental Tissues
Yuko Haida, Akane Kondo, Daichi Nakaoku, Mikio Yamasaki, Mikio Morine, Kennji Hinokio, Kazuhisa Maeda, Chika Takahashi, Shunichiro Izumi, Yoshie Kametani
- P075* Development of Trans-Epithelial Electric Resistance (TEER) Measurable Kidney-on-a-chip
Yusuke TANAKA, Kaito SASAKI, Hiroshi KIMURA
- P076 Development of Flexible Type Electrode Modified using ZnO Nanorods for Determination of Glucose
Yutaka Ando, Dhivya Ponnusamy, Ganesh Kumar Mani, Wasin Sukumpanpong, Kazuyoshi Tsuchiya
- P077 Electrochemical Characteristics of $\text{NaMn}_{0.8}\text{Fe}_{0.1}\text{B}_{0.1}\text{O}_2/\text{NaTi}_2(\text{PO}_4)_3$ Aqueous Sodium-ion Batteries
Takumi SATO, Tomohiro TAMURA, Masashi SATO, and Masashi HIGUCHI
- P078* "AMATERAS" The New Type Rail-Gun System
Hidemasa FUKUOKA, Gouji YAMADA
- P079 Resistive Based Microfluidic pH Sensor: A Novel Approach Based on ZnO Thin Films
Ganesh Kumar Mani, Dhivya Ponnusamy, Sheng Zhang, Yuta Sunami, Kazuyoshi Tsuchiya
- P080 Ultra-flexible Freestanding ZnO Nanosheets: A Novel Material for Highly Sensitive Chemiresistive Sensors
Dhivya Ponnusamy, Ganesh Kumar Mani, Asuka Saito, Yutaka Yasoda, Kazuyoshi Tsuchiya
- P081 Dynamics in Poly (ethylene imine) - Water Mixtures at Subzero Temperatures Studied by Broadband Dielectric Spectroscopy
Shiori INOUE, Kaito SASAKI, Rio KITA, Naoki SHINYASHIKI, Shin YAGIHARA
- P082 Effect of Crystal Orientation of Bi_2Te_3 Thin Films by Oblique Deposition Method
Satoshi MORIKAWA, Yuji SATAKE, Masayuki TAKASHIRI
- P083 Highly Sensitive Trimethylamine Sensor based on $\text{VO}_x\text{-TiO}_x$ Thin Films
M. Veena, M. Abinaya, P. Deepak Raj, M. Sridharan

- P084 Effect of Film Thickness and Acetylation Degree on Glass Transition Temperature of Dextran
Isala DUERAMAE, Kaito SASAKI, Naoki SHINYASHIKI, Shin YAGIHARA, Rio KITA
- P085 Development of wiring method for nanosheet sensor
Tomoya Fujii, Yutaka Yasoda, Ganesh Kumar Mani, Kazuyosi TSUCHIYA,
- P086 Au-Pt Buffer Layer Optimization in High Voltage Piezoelectric PZT Thin Films for Hollow Micro Pump
Taiki Kawajiri, Ganesh Kumar Mani, Yutaka Yasoda, Kazuyoshi Tsuchiya
- P087 Zinc incorporated Polymer Nanosheet with Antimicrobial Properties for Wound Healing
M. Q. Hafzan ISHAK, Ryo KUMAGAI, Syunsuke KINOSHITA, Prabakaran SHANKAR, Sergei A. KULINICH,
Yosuke OKAMURA, Satoru IWAMORI
- P088* Fundamental Study on Fluid-Structure Coupling Simulation of Shot Peening and Related Phenomena
Takayoshi KUBOTA, Yusuke MIZUNO, Shun TAKAHASHI, Kyoichi NAKASHINO, Kota FUKUDA
- P089 Glass Transition and Dynamics of Polymer and Solvents in Poly (vinyl pyrrolidone) Solutions Studied by Broadband
Dielectric Spectroscopy.
Masanobu TAKATSUKA, Kenta BANDAI, Mitsuki FUJII, Kaito SASAKI, Rio KITA, Naoki SHINYASHIKI, Shin
YAGIHARA
- P090 Study of Friction Between Tire and Road Surface on Liquid Film
Yuya TANAKA, Atsuro SEGUCHI, Takuya INOUE, Shun TAKAHASHI
- P091* Optimization of Micropump for Artificial Auxiliary Heart Using Piezoelectric Material by FEM
Yushi YAMANOUCI, Ganesh Kumar MANI, Yutaka YASODA, Kazuyoshi TSUCHIYA
- P092 Development of pH sensor for intraoral measurement
Gaku TSURUZOE, Ganesh Kumar MANI, Yutaka YASODA, Kazuyoshi TSUCHIYA
- P093* Dynamics of water and ice in poly(ethylene glycol)-water mixtures studied by dielectric spectroscopy
Masahiko MIYARA, Ikeru TAKASHIMA, Kaito SASAKI, Rio KITA, Naoki SHINYASHIKI, Shin YAGIHARA
- P094 Development of Additive Element Evaluation Method to Improve BaTiO₃ Piezoelectricity by Using First-principles
Calculation
Yutaka YASODA, Ganesh Kumar MANI, Yasutomo UETSUJI, Kazuyoshi TSUCHIYA
- P095 Measurement of oral pH during stress load
Yuki ITO, Ganesh Kumar MANI, Yutaka YASODA, Kazuyoshi TSUCHIYA
- P096 Development of adhesive type sensor using PVDF
Yuya KUMAKIRI, Yutaka YASODA, Ganesh Kumar MANI, Kazuyoshi TSUCHIYA"
- P097 CFD Analysis of Oil Film Distribution on Roller Surface in Traction Drive: Study on Model Improvement for
Reducing Calculation Cost
Takuya SUWA, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P098 Experimental Study on Characteristics of Thrust Foil Gas Bearing Using Bump Metal Mesh Foil
Ryo ODAGIRI, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P099 Visualization Experiment on Dry Gas Seals using PIV
Yosuke AKETO, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P100 Investigation of Liquid Film in a Cooling Tower
Tatsuya ODA, Yuya SHIBATA, Takuya INOUE, Shun TAKAHASHI
- P101 Shock Layer Radiation Analysis for Spacecraft Reentry Flights
Gouji YAMADA

- P102* Spectroscopic Measurements of Plasma Flows with Ablation in an Arc-Heated Wind Tunnel
Shohei YANAI, Chihiro TAKAHASHI, Motohiro NAKANISHI, Takahiro MIZUGUTI, Gouji YAMADA, Hiroshi KATSURAYAMA, Takeharu SAKAI, Hiromitsu KAWAZOE
- P103 CFD analysis of Small-Bore Journal Bearing with Oil Supply Groove Considering Two Phase-Flow
Fuma SAKAI, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P104 Visualization of The Internal Multilayered Lubricating Oil Flow on Journal Bearing Having Two Filler Port by RGB Color Model
Masayasu KINOSHITA, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P105 Development of Thrombosis Model for Nano Disc DDS Evaluation Under High Shear Conditions
Sho YOKOYAMA, Shota YOSHIDA, Yosuke OKAMURA, Hiroshi KIMURA
- P106 Visualization of oil film velocity distribution and boundary surface in the journal oil film bearing
Bunji KURAMOTO, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P107 Analysis of Achilles Tendon injury Through Young's Modulus Measurement for Bio-MEMS
Shun'ya Suzuki, Kazuyoshi Tsuchiya
- P108 Synthesis and its Electrical Conductivity of NiO/YSZ Composites
Yoshihisa KAWABE, Taiki KUROE, Masayuki MIYAMOTO, Ryota IJIMA, Masashi YOSHINAGA
- P109 Microwave Synthesis of Yttria-Stabilized Zirconia
Satoshi TSURU, Shin ANDOU, and Masashi YOSHINAGA
- P110 Design and Analysis of Injection Mold for Polymer Based Solid Microneedles
Hirokazu NAKASONE, Kazuyoshi TSUCHIYA
- P111 Study on Laser Processing Condition in Gas Bearing Groove for Inner Rotor Type Spindles
Naoya KATO, Masayuki OCHIAI, Yuta SUNAMI, Hiromu HASHIMOTO
- P112 Lung cancer detection by Nasal sensor
Tomoya Suzuki, Ganesh Kumar Mani, Yutaka Yasoda, Kazuyoshi Tsuchiya
- P113 Development of minute area C. V. measuring electrode
Kouta Yamada, Ganesh Kumar Mani, Yutaka Yasoda, Kazuyoshi Tsuchiya
- P114 Electromagnetic Energy Harvesting Using Iron Oxide Nanoparticles for Biomedical Applications
Yusuke Yoshikawa, Ganesh Kumar Mani, Yutaka Yasoda, Kazuyoshi Tsuchiya
- P115 Improvement of Mechanical Properties of TiB₂ Based Films and Their Application for Cutting Tools
Kazuma TSUCHIYA, Masao KOHZAKI"
- P116 Numerical simulation of oil - gas multiphase flow around piston rings with small gaps
Ryuichi SASAKI, Yuki KAWAMOTO, Yuta AKAMA, Shun TAKAHASHI, Masayuki OCHIAI, Kenji YAMAMOTO, Akihiko AZETSU
- P117* Effects of mold shape on molten metal flow in die casting
Yuki KASHIWABARA, Yuta SUNAMI, Masayuki OCHIAI, Hiromu HASHIMOTO
- P118 Synthesis and electrical conductivity of lithium zinc silicate by the liquid phase reaction.
Seiji ONO, Orasa MUNGKOED, Takashi ASAKA, Masashi HIGUCHI
- P119 Influence of organic template for the synthesis of Spherical mesoporous silica particles,
Jawad SARWAR, Masashi HIGUCHI"
- P120 Development of touch panel with used PVDF
Koki YASUDA, Kazuyoshi Tsuchiya

- P121 Multiscale Numerical Study on Magnetoelectric Effect of Multiferroic Composite Materials
Shota FUKUI, Yasutomo UETSUJI
- P122 Development of Valveless Pump Driven with Piezoelectric Actuator
Takumi YAMAMOTO, Yasutomo UETSUJI
- P123* Investigation of Heat Transfer for a Flow around a Sphere in Cartesian Mesh by using Immersed Boundary Method
Takumi KURIBAYASHI, Yuki HAMAGATA, Yusuke MIZUNO, Shun TAKAHASHI, Taku NONOMURA, Takayuki NAGATA, Kota FUKUDA"
- P124* Open-type Neuron Cell Assay Device for Efficient Quantitative Analysis of Axonal Transport
Takashi KUSHIDA, Sho YOKOYAMA, Tomoyuki ISHIDA, Asako OTOMO, Shinji HADANO, Hiroshi KIMURA
- P125* Development of Liquid Component Separation Device based on Thermophoresis Effect
Shunsuke Miyamoto, Kazuya Eguchi, Rio Kita, Hiroshi Kimura
- P126 Localization of ALS-linked SQSTM1 mutants in neuronal cells and effects of its expression on autophagy and cell viability
Ryohei SHIRAKAWA, Masahisa NOZAKI, Yutaro HAMA, Kai SATO, Shun MITSUI, Suzuka ONO, Asako OTOMO, Hui-Fang SHANG, Shinji HADANO
- P127* Estimation of Electrodynamical Forces on Microdevice for Deformability Measurement of Cells
Minato TAKAGI, Masayuki NUKAGA, Soo Hyeon KIM, Kazuhide YAHATA, Teruo FUJII, Osamu KANEKO, Hiroshi KIMURA
- P128 MICROFABRICATED STEEL SURFACES FOR TOUCH APPLICATIONS
Sheng ZHANG
- P129 Fabrication of Wood Plastic Composites by Using Ionic Liquids.
Tomoki HORI, Naoyuki SHIRAIISHI, Yasutomo UETSUJI
- P130 LDV measurement of velocity amplitude in oscillating air and water columns
Fumihito SUGAWARA, Yousuke OGAWA, Mariko SENGA, Ryunosuke HASEGAWA, Kazuto KUZUU, Shinya HASEGAWA"
- P131 PIV Measurement Method with High Spatial Resolution for Boundary Layer in Air-column Oscillation
Hiroki Yanai, Fumiya Takemura, Kazuto Kuzuu, Shinya Hasegawa
- P132* Two-Color Toluene LIF Measurement of Oscillatory Flow in Parallel Plates
Fumiya TAKEMURA, Kazuto KUZUU, Shinya HASEGAWA
- P133* Impedance Matching with Turbine Generator and Loop Type Thermoacoustic Engine Having an Amplifier in a Branch Tube
Fumiya TAKEMURA, Md. Suruz MIAN, Kazuto KUZUU, Esmatullah MAIWAND SHARIFY, Shinya HASEGAWA
- P134* The Quasi-steady Operation of kW class miniaturized MPD in Laboratory Experiment
Yuki MURAYAMA, Taro SAITO, Shunsuke FURUKAWA, Hideyuki HORISAWA, Ikkoh FUNAKI
- P135* Influence of Crystallization of Fragmentated Nanosheet Suspension on Rheological Property
Koshiro NAKAYAMA, Isala DUERAMAE, Yuta SUNAMI, Yosuke OKAMURA, Rio KITA, Naoki SHINYASHIKI, Shin YAGIHARA
- P136* Fast and Slow Mode of Thermodiffusion Observed in β -Cyclodextrin Inclusion Complex with 1-Butanol
Kazuya EGUCHI, Tsubasa KAWAGUCHI, Naoki SHINYASHIKI, Shin YAGIHARA, Rio KITA
- P137 Flow simulation of dolphin swimming from the point of ethological and morphological aspects
Tomoya MAEDA, Tomoyasu INATANI, Maako MIYAKE, Shun TAKAHASHI, Yoshinobu INADA

- P138 Analysis of the thermochemical process in the shock layer generating around space vehicles entering into the Earth atmosphere
Mizuki Kajino, Syouhei Yanai, Gouji Yamada
- P139 Elucidation of Side Reaction of Transglycosylation Reaction
Yudai Kodama, Toshiyuki Inazu
- P140 Nuclear Fuel Recycle Using Fluorous Chemistry
Takaya HIROSE, Kouki NAKAGAWA, Noriko ASANUMA, Toshiyuki INAZU
- P141 Noise Figure Measurement of Erbium-Doped Fiber Amplifier in Electrical Domain
Tao LI, Guo-Wei LU
- P142* Behavior analysis of cell membrane lipid using BODIPY-labeled lactosyl ceramide
Kenta ARAI, Yoshimi KANIE, Osamu KANIE, Kazuya KABAYAMA, Koichi FUKASE
- P143* Creating of Microfluidic Device Based pH Sensor for Detecting Circulating Tumor Cells
Asuka Saito, Ganesh Kumar Mani, Kazuyoshi Tsuchiya
- P144* Evaluation of Physical Properties of Poly-DL-Lactic Acid Ultra Thin Film
Shunsuke Nakano, Shinichi Tajima, Yoshitomo Kai, Yosuke Okamura, Hiromu Hashimoto, Masayuki Ochiai,
Yuta Sunami