Poster Program

Poster Session 1 (Day1, November 24, 15:00~16:30)

P1-01
Machine Learning-Based Simulation Framework for Predictive Modeling of Thrust Force and Temperature Rise in Human Cortical Bone Drilling
ARINDAM BISWAS (KAZI NAZRUL UNIVERSITY, INDIA)

P1-02
Analysis of The Formation Mechanism of Multi-Core Hydrogel Filaments via The Extensional Deformation of Shear-Induced Polymer Assemblies
Taro Nagai (Utsunomiya University)

P1-03
Permanent Magnet Stator Redesign for Expanded Axial Control Range in a Magnetically Levitated Axial Gap Fontan Assist Pump
Nobuyuki Kurita (Baylor College of Medicine)

P1-04
Luminescence Characteristics of Organic–Inorganic Perovskite-Type Compounds Containing Saturated Cyclic Amines
Nobuyoshi Yamauchi (Akita university)

P1-05
Quantification and SICM Observation of Marine Bacterial Biofilm Formation on Inorganic Nanosheets
Nobumitsu Hirai (National Institute of Technology (KOSEN), Suzuka College)

P1-06
Verifying mechanism of delamination between Ti plates and resin-modified Glass ionomer cement with current application
Kosukehadi Atsumi (Department of Biomaterials and Bioengineering,School of Dentistry, Tokushima University)

P1-07
Enhancing the thermoelectric performance of AgBiSe2 via cobalt doping for wearable energy harvesting applications
DHIVYA MAHALAKSHMI CHAVALI NARESH (Shizuoka University)

P1-08
Synthesis of Copper-Based Nanosheets for Photothermal Antibacterial Therapy
Masaya Shimabukuro (Institute of Science Tokyo)

P1-09
Atmosphere-Controlled MILD Etching of Ti3C2Tx MXene Triples the Seebeck Coefficient of Spray-Coated Carbon Fabric for Wearable applications
Venkata sai Varma samunuru (Research institution of electronic/ shizuoka university)

P1-10
Development of a Microfluidic Electrochemical Device for Salivary Cortisol Monitoring
Takumi Kunugi (Institute of Science Tokyo)

P1-11

Surface Functionalization with Copper Endows Carbonate Apatite Scaffolds with Photothermal Antibacterial Activity

Mariya Kuboki (Institute of Science Tokyo)

P1-12

Research on ceramic processing with excellent properties useful for applications of biological application

Naonori Sakamoto (Shizuoka University)

P1-13

Development of biocompatible Fe-Pt thin sheets fabricated by exfoliation behavior : 4th Report

Kohei Fujii (Nagasaki University)

P1-14

Coercivity of Fe-Pt Micromagnets Fabricated by Laser-Induced Forward Transfer Technique

Kosei Maki (Nagasaki University)

P1-15

Development of a Titanium-Integrated Fluidic Device toward a Periodontal Tissue Chip

Ariyoshi Takuma (Institute of Science)

P1-16

Development of Fe-Pt Micromagnets for Medical Device Applications Using Laser-Induced Forward Transfer Technique

Hayato Todoroki (Nagasaki university)

P1-17

Fabrication-Dependent Microwell Aperture-Edge Geometry and Lateral Diffusion of Lipids in Suspended Lipid Bilayers

Ayumu Tamura (University of Hyogo)

P1-18

Antimicrobial and Cytocompatible Functionalization of Polymer Surfaces by Aerosol-Assisted Atmospheric Plasma Deposition

Hua-Ting Hsieh (Institute of Science Tokyo)

P1-19

Influence of Synthesis Temperature on Radio-Photoluminescence in Au-Doped Phosphate Glasses

Takumi Matsunaga (Tokyo University of Science)

P1-20

Development of an Artificial Lung Mechanism for Airflow Supply in a Breath Driven Speech Robot

Yuta Nagai (Graduate School of Science and Technology, Shizuoka University)

P1-21

Activation of photocatalytic properties of titanium dioxide on fibrous calcium phosphate sheet

Shohei Kajiwara (Sophia University)

P1-22

Curvature-Based Assessment of Mandibular Symmetry

Yusuke Sasaki (Institute of Science Tokyo)

P1-23

Radiation Response Properties of Er3+-doped 12.5Bi2O3–12.5Nb2O5–74.9TeO2 Glass and Glass Ceramics

Rinku Okura (Akita University)

P1-24

Toluene Decomposition in High-Humidity Air using Dielectric Barrier Discharge with MnO_2-TiO_2 Catalyst

Daiki Hirose (Institute of Science Tokyo)

P1-25

Optimum Load Condition for Weakly Nonlinear Amplifiers

Sakae Ito (Graduate School of Advanced Science and Engineering)

P1-26

Atmospheric-pressure plasma promoted seed germination in sorghum

Yuki Yanagawa (Chiba University)

P1-27

Reproduction of Fingertip Vibration during Surface Scanning Using a Sounder Actuator

Yuto Okada (Shizuoka University)

P1-28

Investigation of a Microdevice for Oral pH Monitoring

Itsuki Nagano (Institute of Science Tokyo)

P1-29

Investigation of Molecular Ionization Mechanisms in DBDI-MS Coupled with Burst Ultrasonic Nebulization

Arina Akaike (Tokyo University of Pharmacy and Life Sciences)

P1-30

Effect of Subsequent Gas Bubbling on the Bactericidal Activity of Plasma Bubbled-up Water

Taisei Fukawa (Institute of Science Tokyo / Laboratory for Future Interdisciplinary Research and Technology)

P1-31

Development of shape memory alloy onplant for orthodontic treatment

sayaka arima (Division of Craniofacial Anomalies Tohoku University Graduate School of Dentistry)

P1-32

Multi-element analysis of single iPS cells and their neural progenitors by Metal Cytometer

Kai Fukuchi (Institute of Sciece Tokyo)

P1-33

Development of a Microdevice for Trapping and Observation of C. elegans

Kazutaka Hagiwara (Laboratory of Biomaterials and Bioengineering, Institute of Science Tokyo)

P1-34

Controlled Alkali metal Substitution in C12A7: Effects on Crystal Structure and Cage Environment

Jagadeeswaran K S K S (Shizuoka university, GSST)

P1-35

Logic Circuit Designs, Processes, and Characterization toward 6-inch 4H-SiC CMOS Platform

Shunto Higashi (Research Institute for Semiconductor Engineering, Hiroshima University)

P1-36

Visualization of Motion of Fluorescent Beads Caused by Intestinal Wall Deformation in Transparent Cylindrical Small Intestine

Yuto Shiraiwa (Institute of Science Tokyo)

P1-37

Preparation and polarization treatment of various zeolite bulk bodies

Yoshikazu Kameshima (Okayama University)

P1-38

Redox Modulation (ReMod) of Tumor Immune-Related Phenotypes by Low-Dose Cold Atmospheric Microplasma

Rubaiya Islam (Shizuoka University)

P1-39

Study on self-shielding effect correction using a dual-sphere Li glass optical fiber neutron detector in BNCT fields

Wakako Kitsuki (Kyushu University)

P1-40

Evaluation of mechanical properties and local strain distribution of Ti-6Al-7Nb alloy processed by high-pressure sliding

Maki Ashida (Seikei University)

P1-41

Screw-Actuated Flow Control in a PDMS Microfluidic Device for Single-Cell Recovery

Shuto Katagiri (Toyohashi University of Technology)

P1-42

Numerical Study on a Bioinspired Deformable Microfluidic Channel with an Initially Circular Cross-Section

Beomseok Kim (Institute of Science Tokyo)

P1-43

How to Improve the coating homogeneity on primary particles using chemical reaction and physical deposition

Naonori Sakamoto (Shizuoka univesity)

P1-44

Fabrication of a Miniature Reference Electrode for Intraoral Multi-Ion Measurement

Tomochika Nakamura (Institute of Science Tokyo)

P1-45

Development of a Thermo-Responsive Polymer-Coated Microfluidic Device for Harvesting iPS Cell-Derived Osteoblast Sheets

Yasuaki Tada (Laboratory for Future Interdisciplinary Research of Science and Technology, Institute of Integrated Research, Institute of Science Tokyo)

P1-46

A Study on Microwave Detection of Breast Cancer Using Welch's t-Test

Shuhei Yamda (Hiroshima University)

P1-47

Development of Lithocholic Acid Derivatives with Potent Vitamin D Activity as Novel Rosenticide

Hiroyuki Kagechika (Institute of Science Tokyo)

Poster Session 2 (Day2, November 25, 10:45~11:45)

P2-01

Development of a Radiation Dose Reduction Method for Cone-Beam CT for Dental Use with Small-data MTANN AI Imaging

Hiroshi Watanabe (Institution of Science Tokyo)

P2-02

Double-Hollow Au@Cu_7S_4 Yolk–Shell Nanostructures for Solar Hydrogen Production

Po hsiang Wang (institute of science tokyo)

P2-03

Luminescence and Dosimetric Properties of Sr2P2O7 Phosphors

Miho Aoki (Kanazawa Institute of Technology)

P2-04

Indium Incorporation in Ag2Se Nanoparticles for Flexible Thermoelectric Films on Ni-Cu Fabric

ANJALI KRISHNA APPANAKUZHI ANIYAN (SHIZUOKA UNIVERSITY)

P2-05

Independent Double-Gate Poly-Si Vertical TFTs with High-k Al2O3 for pH Sensing

Yusei Sasaki (Tohoku Gakuin University)

P2-06

Spontaneous Superlattice Formation in [011] Direction in Strontium Titanate Thin film by Dynamic Aurora PLD Method

Naoki Wakiya (Shizuoka University)

P2-07

External Static Pressure Attenuates TGF-β2-Associated Remodeling of a Three-Dimensional Microvascular Network

YANJI LIU (Institute of Science Tokyo)

P2-08

Thermophysical Characterization of Apollo 17 Lunar Regolith Sample 70161 by Thermal Microscopy and Microstructural Analysis

Rin Togawa (Shibaura Institute of Technologys)

P2-09

Direct Writing of Au Wire via Open Microfluidics for Integrated Temperature Sensing

Sifeng Mao (Soochow University)

P2-10

Crown-Ether-Complexed Copper Chloride Single Crystals for Scintillation Applications

Itsuki Gonda (Nara Institute of Science and Technology)

P2-11

Effects of Poloxamer 407 on Drug Release from Calcium Phosphate Cement

Akira Moromizato (Tokushima University)

P2-12

Fabrication of Polyaniline/Pullulan Composite Hydrogels

Keisuke Okamoto (Institute of Science Tokyo)

P2-13

Red to Near Infrared Luminescence from 3d Transition Metal Ions Doped in Aluminate and Aluminosilicate Compounds

Yuta Matsushima (Yamagata University)

P2-14

Porous ZnO–GO–rGO based Electrochemical Aptasensors for Sensitive Detection of EGFR

Aimen Fatima (Tokyo University of Science)

P2-15

Ruthenocene as a hydrophobic scaffold for biologically active molecules: synthetic studies and preliminary biological evaluation

Shinya Fujii (Osaka Medical and Pharmaceutical University)

P2-16

Repetition Characteristics of the Strain Sensor using Ti-Ni Shape-Memory Alloy Fine Wires Showing R-phase Transformation

Kenta Shimohashi (The University of Kitakyushu)

P2-17

Transdermal Drug Delivery Using Sequential Ultrasound Irradiation

Yohei Usui (Tokyo University of Agriculture and Technology)

P2-18

Antimicrobial Efficacy and Reactive Species Generation in Cold Atmospheric Plasma Bubbling for Denture Cleaning

Miyuki Tanimoto (Institute of Science Tokyo)

P2-19

Effect of purely plastic pre-strain on the martensitic transformation behavior in an Fe-25Ni-0.75C alloy

Mitsuchika Takayashiki (The University of Electro-Communications)

P2-20

Characterization of Functional Thin Films for Enhanced PTFE Adhesion by Atmospheric Plasma Polymerization

Soma Yamada (Institute of Science Tokyo)

P2-21

Mechanically Tunable Plasmonic Color Filters Based on 2D Metallic Arrays

Ryoma Masuda (Shizuoka University)

P2-22

Neutron detection properties of Li or Na/Ce-codoped Sr2Mg(BO3)2 single crystals

Yuma Takebuchi (Utsunomiya University)

P2-23

Measurement of Amyloide-Beta Immobilization and Aggregation Using Focused Surface Plasmon

Daiki Matsubayashi (Muroran Institute of Technology)

P2-24

Laser-Induced Silver-Ion Reduction for the Fabrication of Fine Metal-Mesh Transparent Electrodes

Shoya Yamaoka (Shizuoka University)

P2-25

Yolk–Shell Au@Cu_7S_4 Nanostructure-Modified TiO_2 Nanowires for Broadband Solar Light Harvesting and Hydrogen Production

Hirotaka Mochida (Institute of Science Tokyo)

P2-26

The Dynamics of Leadership and Followership: Behavioral and Neural Perspectives

Lykke Silfwerbrand (Institute of Science Tokyo)

P2-27

Life Cycle Assessment of Artificial Vascular Grafts - CO2 Emissions from Production -

Keiichiro Sano (Kanto Gakuin University / Department of Symbiotic Design)

P2-28

Effects of Sb^{3+} Doping Concentration on Luminescence and Scintillation Light Yield of $Cs_2NaScCl_6$ Single Crystals

Rinnosuke Nakayama (Tohoku University)

P2-29

Comparative Evaluation of Fluorescent Mixing Region and pH-Reactive Region in Open Microfluidic Systems

Souju Ebisawa (Department of Applied Chemistry, Tokyo Metropolitan University)

P2-30

Mechanical Characterization of Novel Ti–Ni-Based Shape Memory Alloy Thin Films Integrated on a Chip

Rikuya Ishihara (Nagoya University)

P2-31

Development and Preliminary Evaluation of a Virtual CT Simulator for Out-of-Plane Needle Puncture

Ayaka Harigai (Tohoku University)

P2-32

Effect of aging on the hysteresis width of coexisting martensite phase in Au-based martensitic alloy

Yuki Matsuoka (Nara Women's University)

P2-33

ReMod of Yeast Cells by Plasma-Activated Solution: Reversible Growth Suppression and Redox-Related Gene Responses

Farhana Begum (Shizuoka University)

P2-34

ReMod-Based Analysis of Redox-Induced Cellular Response and Recovery in KGN Cells

Md. Al-Imran Imon (Shizuoka University)

P2-35

Serially Connected Fluidic System towards Culturing Multiple Patient-Derived Cancer Tissues

Hiroto Kawanaka (Institute of Science Tokyo)

P2-36

Bioactive Carbon Fabric-Reinforced Polyetherketoneketone with Precipitated Apatite Nuclei

Kurumi Yoshinaga (Graduate School of Energy Science, Kyoto University)

P2-37

A Basic Study on the Measurement of Head-Related Transfer Functions Considering Hair in the Very High-Frequency Range

Kanami Kondo (Kanagawa Institute of Technology)

P2-38

Development of shape memory composite actuators for application to medical and nursing care robots

Kazuhiro Kitamura (Aichi University of Educatio0n)

P2-39

256-Pixel 4H-SiC UV CMOS Image Sensor for Harsh Environment Applications

Tatsuya Meguro (Hiroshima University)

P2-40

GDC-Carbonate Electrolyte Based SOFC for Portable Power and Next-Generation Biomedical Sensing

K Sumiran Dash (Institute of Science Tokyo)

P2-41

Development of Bioresorbable Mg–Zn–Ca/Fe Bulk Metallic Glass Composites for Biomedical Applications

Hiroyasu Kanetaka (Tohoku University)

Poster Session 3 (Day2, November 25, 11:55~12:55)

P3-01
Apatite Mineralization on Mg-Ti Ferrite Nanoparticles
Toshiki MIYAZAKI (Kyushu Institute of Technology)

P3-02
Classification of Magnetic Shape Memory Alloy Particles from 3D CT Images via Pretraining on Physics-Based Synthetic Data
Naoki Nohira (Institute of Science Tokyo)

P3-03
Characterization of Non-Stoichiometric Zinc Silicate Phosphors as Reusable Dosimetry Materials
Hiroyuki Fukushima (National Institute of Technology, Fukui college)

P3-04
Thermoelectric properties of epitaxially grown calcium cobaltate thin film
Naoki Wakiya (Shizuoka University)

P3-05
The influence of the hollow core and structural Eshelby twist on the morphology of the rounded growth spiral
Oleksii Kulyk (V.N. Karazin Kharkiv National University, Ukraine)

P3-06
Microstructural fluctuation model of fluid as an engineering tool for isotope extraction
Oksana Podshyvalova (National Aerospace University "Kharkiv Aviation Institute", Ukraine)

P3-07
Terahertz spectra of calcium hydrogen phosphates and their insights into crystal structures
Kiyoshi Itatani (Sophia University)

P3-08
Development of shape memory composite actuators for application to medical and nursing care robots
Kazuhiro Kitamura (Technology Education)

P3-09
Effect of Transcutaneous Electrical Stimulation of the Ophthalmic Branch of the Trigeminal Nerve (V1) on Post-Ischemic Neuronal Degeneration in a Rat Photothrombotic Ischemia Model
Yauko Fukushi (Shizuoka University / Research Institute of Electronics)

P3-10
Algorithm for Evaluating Marginal Gingival Damage Caused by Tooth Preparation
Yayoi Endo (Tohoku University)

P3-11
Development and characterization of GaAs X-ray sensors with different thicknesses for imaging applications
Juha Kalliopuska (Advafab Oy)

P3-12

Determination of the depletion region width in CdTe diode radiation sensors using photosensitivity spectra

Volodymyr Gnatyuk (Advafab Oy)

P3-13

Sm2+-activated strontium halide red-emitting scintillator for next generation radiation detector in medical applications

YUTAKA FUJIMOTO (Tohoku University)

P3-14

Design Optimization of Diamond Waveguides Towards Realization of Low-Loss Terahertz Sensing for Biomedical Engineering and Beyond

Tomoaki Masuzawa (Shizuoka University)

P3-15

Development of Optical-Fiber-Based Neutron Detectors Using Miniature Spherical Li-Glass Scintillators for Boron Neutron Capture Therapy

Yutaro Saito (Kyushu University)

P3-16

Design and Numerical Analysis of Polycrystalline Diamond Waveguides for Terahertz Photonics

AMIT BANERJEE (Dept. of Physics, Bidhan Chandra College, West Bengal, India)

P3-17

Toward High-Spatial-Resolution X-ray Sensors: CsI Filling of Deep Silicon Trenches by Vapor Deposition

Taku Miyake (ANSeeN INC.)

P3-18

Design of Self-Assembling Protein Nanofibers for Biomedical Applications

Ayae Sugawara-Narutaki (Institute of Science Tokyo)

P3-19

Localized intraoral ultrasound promotes bone healing in medication related osteonecrosis of the jaw via modulation of inflammatory responses and semaphorin signaling

Kazuaki Nishimura (Tohoku University)

P3-20

Engineering RNS Inputs for Redox-Guided Modulation: From DBD Energy Mapping to Preliminary Neuro-2a Cell Responses

Mateusz Urban (Shizuoka University)

P3-21

Magnetic-Field-Dependent Electrochemical Behavior of Copper Electrodes Toward Efficient Chiral Molecule Sensing

Hiroki Asami (Nagasaki Institute of Applied Science)

P3-22

Exploring Factors Associated with the Palatability of Rice Flour Products Prepared from Different Rice Cultivars

Kana Miura (Kyoai Gakuen University)

P3-23

Redox-guided modulation (ReMod) in SH-SY5Y Cells: Plasma-Activated Water (PAW) Exposure Window

Ummi Mamman (Shizuoka University)

P3-24

Antibacterial Activity and Macrophage Inflammatory Responses of Additively Manufactured Ti–CuO Alloys for Dental Applications

Peng Chen (Tohoku University)

P3-25

Laser marking of glass and polymer materials for biomedical applications

Dmytro Gnatyuk (Aalto University)