

November 9

●Location A: Collaboration Room

No.	Name of presenting author Affiliation	Title of poster presentation
1	Kohei Asai Tohoku University	Radiophotoluminescent Organic Materials Based on Photochromic Molecules
2	Hiroki Cho The University of Kitakyushu	Effect of Heat-treatment Temperature on the Post-buckling Behavior of Tape-shaped Ti-Ni Shape Memory Alloy
3	Tetsuo Sasaki Shizuoka University	Detection of Impurities Contained in Organic Crystals by Terahertz Spectroscopy Measurement
4	Hiroya Ikeda Shizuoka University	Flexible Thermoelectric Materials for Self-power-generation Physiological Sensor
5	Naohiro Horiuchi Tokyo Medical and Dental University	Effect of Temperature on Hydrothermal Synthesis of Hydroxyapatite Plates
6	Yuta Matsushima Yamagata University	A New Phosphor Host Material; Fluorine Doped Lithium Aluminate
7	Ryotaro Hara Tokyo Institute of Technology	An <i>In-situ</i> Observation of Plastic Deformation Behavior in a Ti-Mo-Al Biomedical Shape Memory Alloy Single Crystal
8	Akihiro Yamashita Nagasaki University	PLD-fabricated Isotropic Fe-Pt Thick-film Magnets for Medical Application
9	Yasuhiro Hayakawa Shizuoka University	Improved Thermoelectric Figure of Merit in Silicon Germanium Alloy
10	Masato Ueda Kansai University	Micro-structural Analysis by Precise Measurement of Resistivity in Pure Ti
11	Rimpei Kamegawa The University of Tokyo	Preparation of Silica-coated Polyion Complexes for Targeted Messenger RNA Delivery
12	Nobumitsu Hirai National Institute of Technology, Suzuka College	SICM Observation on Biofilm Formed on Glass Substrates
13	Pimpet Sratong-on Tokyo Institute of Technology	Numerical Evaluation of Deformation Behavior in NiMnGa Particles/Silicone Composite
14	Taywin Buasri Tokyo Institute of Technology	Effect of Cyclic Deformation on Superelasticity of Au-51Ti-18Co Biomedical Shape Memory Alloy Aged at 673 K
15	Masaki Akatsuka Nara Institute of Science and Technology	Development of Garnet Crystals Based Imaging Detectors
16	Sohya Kudoh Tokyo Institute of Technology	Influence of Si (100) Surface Flattening Process on Nonvolatile Memory Characteristics of HF-based MONOS Structures
17	Tomoko Hashimoto Nara Women's University	Structural Analysis of Metal Depositing Nylon 66 for the Novel Wearable Device
18	Mitsuhiko Ogihara Filnex Corporation	Room Temperature Bonding of Single Crystal Semiconductor Device Layer for Biomedical Engineering
19	Hiroto Watanabe Nagoya University	Micro Foldable Pipe Structures Using Ti-Ni-Zr High Formable Shape Memory Alloys
20	Natsumi Fukaya Nagoya University	Biomimetic Supramolecular Polymerization of Amide-functionalized Fluorescent Dye
21	Koki Yamaji Tokyo Institute of Technology	Effect of Boron Addition on Mechanical Properties of AuCuAl Biomedical Shape Memory Alloy
22	Rui Serizawa Tokyo Institute of Technology	Mechanical Property of AuCuAl Biomedical Shape Memory Alloy Single Crystal Micropillar
23	Masaki Tahara Tokyo Institute of Technology	Stress-Induced Martensitic Transformation and Slip Deformation in Single-crystalline Ti-27mol%Nb Biomedical Shape Memory Alloy
24	Ryo Iida National Institute of Technology, Ube College	A Study of the Electronic Structure at Oxygen Adsorbed 4H-SiC (0001) (3×3) Reconstructed Surface by MIES

No.	Name of presenting author Affiliation	Title of poster presentation
25	Rengie Mark D. Mailig Tokyo Institute of Technology	The Influence of Low Temperature Dopant Activation Annealing on the Electrical Properties of nMISFET and pMISFET Utilizing High-k HfN _x Gate Stack Structure for Gate-first Process Application
26	Ryosuke Ibaki Tokyo Institute of Technology	Effect of Al Addition on Mechanical Properties of Ti-3Mo-6Sn Biomedical Shape Memory Alloys
27	Akira Umise Tokyo Institute of Technology	Microstructure Change of Au-27Cu-18Al Biomedical Superelastic Alloys by Fe Addition
28	Min Gee Kim Tokyo Institute of Technology	Ferroelectric Characteristics of Undoped HfO ₂ Formed by Kr/O ₂ -sputtering
29	Ayaka Watanabe University of Hyogo	Mechanical and Tribological Behaviors of Ti-Mo Alloys
30	Keiichiro Awaji Nihon University	Preparation and Characterization of Boronate-functionalized Polymer Aimed at Pyrophosphate Detection
31	Yoshiki Matsumoto Tokyo Institute of Technology	The Formation of <100> Fiber Texture in Ti-Mo-Al-Zr Alloy Wire by Cold Groove Rolling
32	Masaya Iwasaki Tokyo Institute of Technology	Phase Constitution and Lattice Deformation Strain of Ti-Cr-Al Biomedical Shape Memory Alloys
33	Vuong Van Cuong Hiroshima University	High Temperature Reliable Ni/Nb Ohmic Contacts to 4H-SiC for Harsh Environment Applications
34	Ayano Toriyabe Tokyo Institute of Technology	Mechanical Properties and Phase Constitutions of Ag-added Au-Cu-Al Biomedical Shape Memory Alloys
35	Thi Thuy Nguyen Hiroshima University	Characterization of (100) Oriented Large Poly-Si Thin Films with Multi-line Beam Continuous-wave Laser Lateral Crystallization
36	Hibiki Nakano University of Hyogo	Study of Electric Conduction of DNA
37	Naoki Nohira Tokyo Institute of Technology	Phase Constitution and Mechanical Properties of Near-eutectoid Ti-Au Biomedical Alloys
38	Kenji Goto Tokyo Institute of Technology	Mechanical Property and Magnetic Susceptibility of AuCuAl Biomedical Shape Memory Alloys
39	Jongho Park Tokyo Institute of Technology	Localized Porous Silicon Structure by Patterned Illumination Using Shadow Masks
40	Masahiro Okada Okayama University	Brush-like Hydroxyapatite Coating on Biodegradable Polymer Substrate at Low Temperature
41	Yasuhiro Hayakawa Shizuoka University	Development of Thermoelectric Cell for Body Temperature
42	Shin Usuki Shizuoka University	Light Field Microscopy with Improved Spatial Resolution
43	Md. Moniruzzaman Shizuoka University	Entry of Antimicrobial Peptide LactoferricinB (4-9) into Single Vesicles and <i>E. Coli</i> Cells without Damaging These Membrane
44	Yuki Yanagawa National Agriculture and Food Research Organization (NARO)	Direct Introduction of Macromolecules into Plant Cells Using a Multi-gas Plasma Jet

● Location B: Media Hall

No.	Name of presenting author Affiliation	Title of poster presentation
45	Yuriko Takayama Utsunomiya University	Cell Adhesion on Gel Filaments Fabricated by Co-flow Microfluidic Device
46	Mami Ogawa Osaka Institute of Technology	Decellularization of Animal Tissue Utilizing Supercritical Fluid Extraction Method
47	Hayao Nishio Ritsumeikan University	Millimeter-wave Radar with Vibratory MEMS Yagi-Uda Antenna
48	Masahiro Hori Shizuoka University	Charge Pumping EDMR for Si/SiO ₂ Interface Analysis
49	Gen Mayanagi Tohoku University	pH Response and Tooth Surface Solubility at the Tooth/Bacteria Interface
50	Mitsuru Naito The University of Tokyo	ATP-responsive Polyion Complex Micelles for Programmed Intracellular Release of siRNA
51	Harumi Ito RIKEN	Fluorescence Pulse-chase Trace Analysis on Assembly of Extracellular Matrix
52	Takumi Okamoto Hiroshima University	An FPGA Implementation of SVM for Type Identification with Colorectal Endoscopic Images
53	Takumi Okamoto Hiroshima University	Transfer Learning for Endoscopic Image Classification
54	Takumi Okamoto Hiroshima University	Classification Method for Real-time NBI Colorectal Endoscopic Images with CNN Features and SVM
55	Takumi Okamoto Hiroshima University	Implementation of Computer-aided Diagnosis System on Customizable DSP Core for Colorectal Endoscopic Images with CNN Features and SVM
56	Takuya Sakamoto University of Hyogo	Breast Cancer Imaging Using Ultra-wideband Radar and Modified Kirchhoff Migration
57	Shinnosuke Daikuhara Hokkaido University	Validation of Autophagy Induction via the Mitochondrial Delivery of Polyrotaxane by a MITO-porter
58	Masahiko Minamoto Tokyo Metropolitan College of Industrial Technology	Operation of Laparoscope Holder Robot Using AR Marker
59	Kazuhiro Kitamura Aichi University of Education	Development of Working Support Device for Arm Using Ti-Ni Shape Memory Alloy
60	Hironobu Takahashi Tokyo Women's Medical University	3D Construction of Anisotropic Cell Sheets Combined with Membranous Structures
61	Kengo Hiura Kyushu Institute of Technology	Design Consideration of a Three-dimensional Stacked Power Supply on Chip for Medical Care Appliance
62	Moynul Hasan Shizuoka University	Effect of Asymmetric Packing of Lipid on Magainin 2-induced Pore Formation in Lipid Membrane
63	Hiroshi Sunami University of the Ryukyus	Control of Cellular Functions Using Micro-patterned Scaffolds
64	Ayako Mashiyama Nihon University	Simultaneous Measurement of Intracellular and Extracellular [Ca ²⁺] Using Ratiometric Fluorescent Microscopy and Microelectrode-based Potentiometry
65	Junpeng Sun Tokyo Institute of Technology	Force Characteristics when a Trocar Penetrates Through the Abdominal Wall in Laparoscopic Surgery
66	Koukei Kondo Tokyo University of Science	Microfluidic Device for Capturing Circulating Tumor Cells - Effect of Post Shape on Cell Separation -
67	Kosuke Nozaki Tokyo Medical and Dental University	Calcium Vacancy Controls Surface Charges of β -tricalcium Phosphate Through Electrical Polarization Process

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No.	Name of presenting author Affiliation	Title of poster presentation
68	Takashi Hoshiba Yamagata University	Preparation of an <i>in vitro</i> Model of Neural Stem Cell Niche Extracellular Matrix "Fractones"
69	Takuya Iwai Tokyo Medical and Dental University	Force Amplifying Robotic Forceps Using Pneumatic Actuators
70	Yuta Oshima National Institute of Technology, Toyama College	SPICE Modeling of Energy Management System for Medical Instruments
71	Jun Negishi Shinshu University	Evaluation of Adult and Fetal Porcine Decellularized Tissues
72	Shintaro Kimura Tokyo Institute of Technology	Development of Robotic Holder for Vitreoretinal Endoscope – Estimation of Eye Position Using Stereo Camera for View Compensation –
73	Hang Song Hiroshima University	Microwave Confocal Imaging Utilizing a Cross-shaped Dome Antenna Array with Time-domain CMOS Radar System
74	Hideki Murakami National Institute of Technology, Kurume College	Development of 3-dimensional Scanner System for Plants Monitoring – In-situ Monitoring System for Plants Growing Observation –
75	Hiroyasu Takemoto Tokyo Institute of Technology	2-Nitrobenzenesulfonamide Group as a Redox-sensitive Linker with Enhanced Extracellular Stability for Polymer-siRNA Conjugate System
76	Yuma Suenaga Tokyo Institute of Technology	Influence of Gas Species in Plasma Bubbling Sterilization
77	Naoko Nakamura Shibaura Institute of Technology	Label-free Capture and Collection of Target Cells Using a Surface Immobilizing Antibody Via Desthiobiotin-avidin Interaction
78	Naoko Nakamura Shibaura Institute of Technology	Periodontal Tissue Reconstruction Using Artificial Tooth and Decellularized PDL Matrix
79	Satoshi Kohno Tokyo Institute of Technology	Development of Droplet Injection ICP-AES/MS and Elemental Analysis of Single Human Cell
80	Takeru Sugiyama Tokyo Medical and Dental University	A Co-immobilized Enzyme Membrane for Advancing Chemo-mechanical Drug-release System for Diabetes
81	Ryota Miyagi Shizuoka University	Time-of-flight Depth Image Acquisition Using Highly Time-resolving Charge Modulation Image Sensor and Frequency-domain Analysis for Application to Endoscope
82	Naruki Kimura Seikei University	Sputter-deposition of Distinguishable Marker on Decellularized Tissue for Non-invasive Imaging Techniques
83	Hikaru Sato Hiroshima University	Microwave Characteristics of Glycerin-saline Mixtures for a Breast Phantom
84	Syohei Moriya Tokyo Institute of Technology	3D Printed Temperature Controllable Multi-gas Plasma Jet for Medical Applications
85	Tetsuo Tabei Hiroshima University	Biomedical Engineering Application of Short Turnaround CMOS Circuits – Temperature Monitoring Using Ring Oscillator –
86	Kentaro Tanaka Toyohashi University of Technology	Stability Analysis of Haptic Tele-operation Using Surgical Robot IBIS
87	Keiichiro Kagawa Shizuoka University	A Handy Compound-eye Camera with Sinusoidal Pattern Projector for Multi-spectral Spatial Frequency Domain Tissue Imaging
88	Ikuro Suzuki Tohoku Institute of Technology	Reconstruction of Brain Circuit on Decellularized Brain Tissue
89	Takuma Kitaura Shizuoka University	Estimation of Change in Hemoglobin Concentration for Surface Tissues Using Photoplethysmography and Time-of-flight Measurement

No.	Name of presenting author Affiliation	Title of poster presentation
90	Yukihiko Sakisaka Tohoku University	Application of Microperforated Titanium Mesh for the Tissue Engineered Regeneration Therapy
91	Hiroshi Ishihata Tohoku University	Spectroscopic Investigation for Clinical Evaluation on Aesthetic Dentistry and Periodontology
92	Egi Tritya Apdila Shizuoka University	Cyanobacterial Galactolipid Synthetic Pathways can be Replaced with Plant-type Pathways in <i>Synechococcus Elongatus</i> PCC 7942
93	Naoki Wakiya Shizuoka University	Crystal Structure and Electrical Properties of Novel Transparent Conductive Oxide
94	Miyuki Tabata Tokyo Medical and Dental University	Label-free microRNA Detecting Sensors for Liquid Biopsy
95	Masaya Yamamoto Tohoku University	Raman Spectroscopic Imaging Analysis of Decellularized Joint Tissue
96	Keisuke Tanimoto Hiroshima University	Biomimetic Neural Network Using Photochromic Optical Waveguides with Memory Effect
97	Tadahiko Shinshi Tokyo Institute of Technology	A Bearingless Slice Motor for Disposable Centrifugal Blood Pumps
98	Yuki Fujiwara University of Miyazaki	Emission Spectrum Evaluation of InGaAs-GaAs-AlGaAs Chirped Quantum Wells for Wide Band Light Sources
99	Tadahiko Shinshi Tokyo Institute of Technology	Micro-magnetization of Pr-Fe-B Magnets Deposited on SiO _x /Si Substrate
100	Naoki Wakiya Shizuoka University	Trial to Prepare α -Al ₂ O ₃ Thin Film at Low Temperature
101	Motoyasu Kobayashi Kogakuin University	Molecular Interaction Forces of Polyzwitterion Brushes in Water
102	Jun Kobayashi Tokyo Women's Medical University	Dynamic Analysis of Thermoresponsive Cell Culture Surfaces by Quartz Crystal Microbalance with Dissipation Monitoring System
103	Kou Homma Shibaura Institute of Technology	Effects of Heat Treatment on Mechanical Properties and Magnetic Susceptibility of Zr-14Nb-5Ta-1Mo Alloy
104	Keerthana Prasad Manipal University	Classification of White Blood Cells in Blood Smear Images Using Convolutional Neural Networks
105	Takumi Mochida Tokyo Institute of Technology	Evaluation of Frictionless Vibration Generator for an In-vivo Energy Harvester
106	Jun Maeda Hiroshima University	High Sensitivity Detection of Prostate Specific Antigen Using Photonic Crystal Double Cavity Resonator
107	Anri Nakajima Hiroshima University	Applications of Si Nanoscale Structures to Biosensor Devices
108	Atsushi Nakamura Shizuoka University	Development of Wearable Sensor Applications Using Graphene/Nanocarbon Composites
109	Takashi Arai National Institute of Technology, Numazu College	Micro-patterning of CSD-derived Piezoelectric Thin Films on Si Substrate Using SAM
110	Tomoya Ohno Kitami Institute of Technology	Sinterless Fabrication of Solid Electrolyte Ceramic Films for All Solid-type Li-ion Micro-battery
111	Akito Hara Tohoku Gakuin University	Four-terminal Low-temperature Polycrystalline-silicon Thin-film Transistors on Glass Substrates for Application in Extended Gate pH Sensor

● Location B: Media Hall

No.	Name of presenting author Affiliation	Title of poster presentation
112	Atsushi Takeshige Hiroshima University	Modeling of Frequency-dependent Complex Dielectric Permittivity Incorporating Frequency-dependent Linear Resistors
113	Daisuke Yamane Tokyo Institute of Technology	Force Response and Vibration Characteristics of Flexible Capacitive Sensors
114	Takumi Okamoto Hiroshima University	Compact and High-speed Hardware Feature Extraction Accelerator for Dense Scale-invariant Feature Transform
115	Takumi Okamoto Hiroshima University	A Hardware Accelerator for Bag-of-features Based Visual Word Transformation in Computer Aided Diagnosis for Colorectal Endoscopic Images
116	Daisuke Ogasawara Tokyo Institute of Technology	Development of Supersonic Pulsed Plasma Jet Source for High-speed Hemostasis Treatment
117	Yuta Hayashi Tokyo Institute of Technology	Development of 3D Printed Mini Plasma Jet and Application to Endoscopic Hemostasis
118	Katsumi Takahiro Kyoto Institute of Technology	Storage Environment Dependence of Optical Absorption and Morphology Changes for Ag Nanoparticle Aggregates
119	Chindanai Ratanaporncharoen Tokyo Medical and Dental University	Miniaturized Ir/IrO _x Wireless pH Sensing System for Biosensor Application
120	Ryo Sato Tokyo Institute of Technology	Optical Communication Device for Assisting Group Talk Among Elderly Persons and Hearing Disabilities
121	Yoshiteru Amemiya Hiroshima University	Design of MEMS Micro-valves for Silicon Photonic Biosensors
122	Wataru Shichi Industrial Research Institute of Shizuoka Prefecture	Study of Plastic Diffractive Optical Elements for Medical LED Lighting
123	Koki Oishi Tokyo Medical and Dental University	A Chemifluorometric Fiber-optic Immunosensor for Sensitive Detection of Influenza Virus
124	De Xing Lioe Shizuoka University	A High Time-resolution CMOS Image Sensor for Near Infrared Spectroscopy
125	Miyuki Tabata Tokyo Medical and Dental University	pH Detecting Devices for Label-free Electrochemical Monitoring of Isothermal Nucleic Acid Amplification
126	Ganesh Kumar Mani Tokai University	Mironeedle Sensors: Future of Painless Medical Diagnosis and Continuous Health Monitoring
127	Moeto Nagai Toyohashi University of Technology	Vibration Testing of Microfluidic Devices for Cell Analysis: Toward a Chip in Everyday Life
128	Hiroyuki Ito Tokyo Institute of Technology	An Ultra-low Power Wireless Sensor Node for Intraoral Measurement
129	Panneer Selvam Sivakumar Shizuoka University	Multi-tap Charge Modulation CMOS Image Sensor for Scanning-less Laser Doppler Flowmetry Imaging
130	Toshihiro Yoshizumi Tokyo Medical and Dental University	A Field-effect Transistor-based Gas Sensor Incorporating Stationary Phase Materials in the Gate Structure
131	Kosuke Muraoka Hiroshima University	Threshold Voltage Instability of 4H-SiC nMOSFETs with Barium
132	Yuuto Nakashima Hiroshima University	Fabrication of CMOS Compatible Si Ring Optical Resonator Biosensors with Spot-size Converter
133	Yoshikazu kameshima Okayama University	Preparation of Polarized ZSM-5 Zeolite Bulk Bodies
134	Mutsuo Ishikawa Toin university of Yokohama	Deposition of Piezoelectric KNbO ₃ /PbTiO ₃ Films for High Frequency Ultrasonic Transducers
135	Wataru Inami Shizuoka University	Development of Ion Imaging System with High Resolution