

Poster Session 1 (11/8 14:45~16:15)

No.	Name	Affiliation	Title
1-1	Hiroki Cho 1 Takumi Sasaki 1 Hideki Hosoda 2	1 The University of Kitakyushu 2 Tokyo Institute of Technology	Effect of heat-treatment temperature on the post-buckling behavior of tape-shaped Ti-Ni shape memory alloy
1-2	Leyi Tan 1 Masashi Hakamata 1 Chen Cao 1 Keiichiro Kagawa 1 Norimichi Tsumura 2 Shoji Kawahito 1	1 Shizuoka University 2 Chiba University	A real-time driver monitoring system using an 18-bit high sensitivity RGB Camera
1-3	Takahiro Iwai 1 Sei Mifune 1 Shota Okada 1 Yuki Okamoto 2 Shohei Moriya 2, Hidekazu Miyahara 3 Akitoshi Okino 2 Koichi Chiba 1	1 Kwansei Gakuin University 2 Tokyo Institute of Technology 3 The University of Tokyo	High-sensitive analysis of adhesive compounds on human skin using temperature controllable plasma jet ADI-MS
1-4	Ichiro Mitsuahara 1 Yuki Yanagawa 1 Akitoshi Okino 2	1 Institute of Agrobiological Sciences, NARO 2 Tokyo Institute of technology	Production of reporter plant for establishment of novel genome editing technology
1-5	Masahiro Okada 1 Takuya Matsumoto 1 Akio Kishida 2 Tsuyoshi Kimura 2	1 Okayama University 2 Tokyo Medical and Dental University	Development of nano-bioceramic coating for novel artificial periodontal tissue units
1-6	Masahiro Yamada 1 Tsuyoshi Kimura 2 Naoko Nakamura 3 Hiroshi Egusa 1	1 Tohoku University 2 Tokyo Medical and Dental University 3 Shibaura Institute of technology	Induction of periodontal ligaments around titanium dental implants in transplanted decellularized alveolar bone
1-7	Tetsuro Miyazaki Daisuke Morisaki Toshihiro Tagami Toshihiro Kawase Takahiro Kanno Kenji Kawashima	Tokyo Medical and Dental University	Soft Sensorless Gait Assistive Suit for Ground and Underwater Training
1-8	Shuhei Fukushima 1 Yuriko Takayama 1 Kota Sawaguchi 1 Eri Nasuno 1 Yasuko Yanagida 2 Norihiro Kato 1	1 Utsunomita University 2 Tokyo Institute of Technology	Inhibition of Biofilm Development and Bacterial Intercellular signaling
1-9	Hibiki Nakano 1 Naoto Mastuo 1 Akira Heya 1 Kazushige Yamana 1 Tadao Takada 1 Kousuke Moritani 1 Norio Inui 1 Yu Sato 1 Tadashi Sato 2 Shin Yokoyama 2	1 University of Hyogo 2 Hiroshima University	Effect of Ar-cluster irradiation on DNA/Si-MOSFET
1-10	Hidetomo Yokoo 1 Ayumi Ohsaki 2 Tomoya Hirano 1 Hiroyuki Kagechika 1	1 Tokyo Med. Dent. Univ. 2 Nihon University	Development and application of novel polarity-sensitive fluorophore based on fluorescent natural compounds
1-11	Md. Mizanur Rahman Moghal Md. Zahidul Islam Sabrina Sharmin Masahito Yamazaki	Shizuoka University	Continuous Detection of Entry of Cell-Penetrating Peptide Transportan 10 into Single Vesicles
1-12	Tatsuro Goda Yuji Miyahara	Tokyo Medical Dental University	Active proton-sensing reveals ion barrier functions of cells
1-13	Cheng-Yao Lo 1 Daisuke Yamane 2	1 National Tsing Hua University 2 Tokyo Institute of Technology	Vibration Characteristics of a High-Sensitivity Flexible Capacitive Tactile Sensor with Reduced Structural Rigidity
1-14	Kazuhiro Kitamura 1 Hideki Hosoda 2	1 Aichi University of Education 2 Tokyo Institute of Technology	Development of work assistance tool for nursing care using Ti-Ni superelastic alloy

1-15	Wataru Inami 1 Kiyohisa Nii 1 Satoru Shibano 1 Hikaru Tomita 1 Yoshimasa Kawata 1 Yuji Miyahara 2	1 Shizuoka University 2 Tokyo Medical and Dental University	Development of high spatial resolution ion imaging system using electron beam excitation
1-16	Yuki Okamoto 1 Mayuko Yoshida 1 Satoshi Kohno 1 Sei Mifune 2 Takahiro Iwa i2 Koichi Chiba 2 Akitoshi Okino 1	1 Tokyo Institute of Technology 2 Kwansai Gakuin University	Non-contact mapping analysis device for skin surface compounds using low power laser and low temperature plasma
1-17	Nobuyuki Morimoto 1 Tatsuro Goda 2 Yuji Miyahara 2 Masaya Yamamoto 1	1 Tohoku University 2 Tokyo Medical and Dental University	Cellular membrane translocation of sulfobetaine - PEG copolymers
1-18	Mari Ueda 1 Koji Seto 1 Ryo Sato 2 Kentaro Nakamura 2	1 Kanagawa Inst. of Tech. 2 Tokyo Inst. of Tech..	Creation of an accessibility map for people with hearing impairments
1-19	Hironori Asada 1 Etsuhiro Muneyama 1 Takayuki Kimura 1 Masakazu Iwasaka 2	1 Yamaguchi University 2 Hiroshima University	Investigation of optical interference effect pattern on biogenic crystals for optical measurement application
1-20	Kota Ono Kengo Hiura Satoshi Matsumoto	Kyushu Institute of Technology	The method of direct wafer bonding consideration of a 3D stacked power supply on chip
1-21	Ikuro Suzuki 1 Aoi Odawara 2 Naoko Nakamura 3 Akio Kishida 4 Tsuyoshi Kimura 4	1 Tohoku Institute of Technology 2 Japan Society for the Promotion of Science, 3 Shibaura Institute of Technology, 4 Tokyo Medical and Dental University	Culture of neural cells using decellularized brain tissue
1-22	Kotaro Mori 1 Junichi Asama 1 Tadahiko Shinshi 2	1 Shizuoka University 2 Tokyo Institute of Technology	Rotor Vibration Reduction of a Bearingless Slice Motor for a Centrifugal Blood Pump
1-23	Yuki Yanagawa 1,2 Setsuko Shimada 1 Yuma Suenaga 3 Shohei Moriya 3 Yusuke Iijima 3 Hidekazu Miyahara 3 Akitoshi Okino 3 Minami Matsui 1 Ichiro Mitsuhashi 2	1 RIKEN 2 NARO 3 Tokyo Institute of Technology	Atmospheric-pressure plasmas may have an ability to regulate the elongation of hypocotyls in Arabidopsis seedlings
1-24	Masahiko Minamoto 1 Takahiro Kanno 2 Tetsuro Miyazaki 2 Toshihiro Kawase 2 Kenji Kawashima 2	1 Tokyo Metropolitan College of Industrial Technology 2 Tokyo Medical and Dental University	Operation of Laparoscope Holder by Tracking Image Markers
1-25	Takeshi Ohshima 1 Akinori Takeyama 1 Takahiro Makino 1 Yuichi Yamazaki 1 Keigo Shimizu 2 Yasunori Tanaka 2 Tatsuya Meguro 3 Fumiaki Hasebe 3 Sin-Ichiro Kuroki 3	1 National Institutes for Quantum and Radiological Science and Technology (QST) 2 National Institute of Advanced Industrial Science and Technology (AIST) 3 Hiroshima University	Development of Extremely High Radiation Resistant Electronic Devices Based on Silicon Carbide Semiconductor
1-26	Kazuaki Nishimura 1,2 Marie Tabaru 3 Kentaro Nakamura 3	1 Tohoku University Hospital 2 Tohoku University Graduate School of Dentistry 3 Tokyo Institute of Technology	Impact of Ultrasound therapy on Bisphosphonate related osteonecrosis of the Jaw
1-27	Yuta Fukagawa Masakazu Iwasaka	Hiroshima University	Light intensity change of comb jerry fish by pulsed magnetic fields
1-28	Kyohei Hamamura Masakazu Iwasaka	Hiroshima University	Analysis of guanine crystal particle stream by using high resolution microscope

1-29	Toshihiro Kawase 1 Ryoken Miyazaki 1 Tetsuro Miyazaki 1 Takahiro Kanno 1 Kotaro Tadano 2 Kenji Kawashima 1	1 Tokyo Medical and Dental University 2 Tokyo Institute of Technology	Hand-held Robotic Forceps Using a Force Sensing Input Device
1-30	Masaaki Hayashi Masakazu Iwasaka	Hiroshima University	Observation of cellular conformation changes in osteoblast under strong magnetic fields
1-31	Yuki Yamoto Koutaro Yasuhira Kenichiro Suzuki	Ritsumeikan University	Non-contact motion detective sensor utilizing a mechanically-vibrating MEMS antenna
1-32	Afreen Azhari Takamaro Kikkawa	Hiroshima University	DC-20 GHz Differential Transmit/Receive DP4T Switching Matrix for Radar-based Target Detection
1-33	Naoko Nakamura 1 Takumi Akaiwa 1 Tsuyoshi Kimura 2 Akio Kishida 2	1 Shibaura Institute of Technology 2 Tokyo Medical and Dental University	Development of antibody-immobilized surface for capture of target cells
1-34	Takumi Okamoto 1 Tetsushi Koide 1 Toru Tamaki 1 Raytchev Bisser 1 Kazufumi Kaneda 1 Shigeto Yoshida 2 Hiroshi Mieno 2 Shinji Tanaka 3	1 Hiroshima University 2 Medical Corporation JR Hiroshima Hospital 3 Hiroshima University Hospital	Investigation of Classification Method for NBI Colorectal Endoscopic Images with CNN Layers and SVM
1-35	Masayuki Odagawa 1,2 Takumi Okamoto 1 Tetsushi Koide 1 Hiroshi Toishi 2 Takayuki Sugawara 2 Masayuki Tsuji 2 Nobuo Tamba 2 Toru Tamaki 1 Bisser Raytchev 1 Kazufumi Kaneda 1 Shigeto Yoshida 3 Hiroshi Mieno 3 Shinji Tanaka 4	1 Hiroshima University 2 Cadence Design Systems 3 Medical Corporation JR Hiroshima Hospital 4 Hiroshima University Hospital	Image Identification System on Rapid Prototyping Platform with Customizable DSP Core for Biomedical Application
1-36	Takumi Okamoto 1 Yasunori Sakane 1 Anh-Tuan Hoang 1 Tetsushi Koide 1 Atsushi Ogawa 2 Masashi Komine 2 Chiharu Sone 2 Yoshihiro Kaneta 2 Yukio Yaji 2 Kyoko Toyofuku 2 Takahiro Kamata 2 Ken Kimura 2 Yoko Ishikawa 2 Toshihiro Kasama 3 Wojciech-Piptr Bula 3 Yoshishige Endo 3 Ryo Miyake 3	1 Hiroshima University 2 Akita Prefectural University 3 The University of Tokyo	Lettuce Leaf and Root Growth Analysis in Hydroponic Culture Based on Time-Interval Captured Images
1-37	Shodai Morita 1 Ryo Umeoka 1 Taichi Taguchi 1 Hiroyuki Ito 1 Noboru Ishihara 1 Chindanai Ratanaporncharoen 2 Miyuki Tabata 2 Yuji Miyahara 2	1 Tokyo Institute of Technology 2 Tokyo Medical Dental University	Low-Power Wireless Ir/IrOx pH Sensor Module using RF Backscattering
1-38	Sabrina Sharmin Hideo Dohra Masahito Yamazaki	Shizuoka University	Interaction of cell-penetrating peptide oligoarginine with single cells of Escherichia coli

1-39	Naoki Nohira 1 Kenji Goto 1,2 Akira Umise 1,3 Masaki Tahara 1 Hideki Hosoda 1	1 Tokyo Institute of Technology 2 TANAKA KIKINZOKU KOGYO K.K 3 Tokyo Medical and Dental University	Effect of Aging Treatment on Phase Constitution and Mechanical Properties of Ti-Au-Mo Biomedical Shape Memory Alloys
1-40	Naoki Nohira 1 Kenji Goto 1,2 Akira Umise 1,3 Masaki Tahara 1 Hideki Hosoda 1	1 Tokyo Institute of Technology 2 TANAKA KIKINZOKU KOGYO K.K 3 Tokyo Medical and Dental University	Microstructure and Mechanical Properties of Near-eutectoid Ti-Au Biomedical Alloys
1-41	Keito Shimoda 1 Takeshi Yanai 1 Hirotoshi Fukunaga 1 Tadahiko Shinshi 2 Masaki Nakano 1	1 Nagasaki University 2 Tokyo Institute of Technology	Optimization process using PLD of Fe-Pt thick-film magnets for medical application
1-42	Jun Maeda Riku Funamoto Yoshiteru Amemiya Shin Yokoyama	Hiroshima University	Characterization of Si Optical Biosensors with Anti-Reflective Coatings Using Sucrose Solution
1-44	Akinori Takeyama 1 Keigo Shimizu 2 Takahiro Makino 1 Yuichi Yamazaki 1 Takeshi Ohshima 1 Shin-Ichiro Kuroki 3 Yasunori Tanaka 2	1 National Institutes for Quantum and Radiological Science Technology (QST) 2 National Institute of Advanced Industrial Science and Technology (AIST) 3 Hiroshima University	Electrical characteristics of gamma-ray irradiated 4H-SiC JFETs
1-45	Kyung Eun Park Yasutaka Maeda Yuki Komatsu Shun-Ichiro Ohmi	Tokyo Institute Technology	A study on the nitrogen-doped LaB6 thin film formation utilizing RF sputtering
1-46	Akira Umise 1,2 Koki Yamji 1 Kenji Goto 1,3 Masaki Tahara 1 Takao Hanawa 2 Hideki Hosoda 1	1 Tokyo Institute of Technology 2 Tokyo Medical and Dental University 3 TANAKA KIKINZOKU KOGYO K.K.	Martensitic Transformation and Mechanical Properties of AuCuAl Biomedical Superelastic Alloys Containing α Phase
1-47	A. Toriyabe 1 K. Goto 1,2 A. Umise 1,3 M. Tahara 1 T. Hanawa 3 H. Kanetaka 4 H. Hosoda 1	1 Tokyo Institute of Technology 2 Tanaka kiikinzoku kogyo K.K. 3 Tokyo Medical Dental University 4 Tohoku University	Grain Boundary Strengthening of AuCuAl Biomedical Shape Memory Alloy by Silver Addition
1-48	Shohei Moriya 1 Yusuke Iijima 1 Yuma Suenaga 1 Toshihiro Takamatsu 2, 3 Hidekazu Miyahara 4 Yuki Yanagawa 5,6 Ichiro Mitsuhara 5 Shosaku Ota 7 Akitoshi Okino 1	1 Institute of Technology 2 National Cancer Center 3 Tokyo University of Science 4 The University of Tokyo 5 NARO 6 RIKEN 7 Kobe Design University	Development and characteristic measurements of multi-gas temperature controllable plasma for medical/agricultural applications
1-49	Masato Ueda 1 Masahiko Ikeda 1 Tomonari Inamura 2 Hideki Hosoda 2	1 Kansai University 2 Tokyo Institute of Technology	Microstructural Analysis of Pure Ti by Precise Measurement of Resistivity
1-50	Satoshi Kohno 1 Yuki Okamoto 1 Tomoko Miyake 1 Takahiro Iwai 2 Mikio Shimada 3 Yoshihisa Matsumoto 3 Koichi Chiba 2 Akitoshi Okino 1	1 Tokyo Institute of Technology 2 Kwansai Gakuin University 3 Tokyo Institute of Technology	Development of droplet injection ICP-AES/MS for trace element analysis of single iPS cell
1-51	Miyuki Tabata 1 Enrico Tenaglia 2 Tatsuro Goda 1 Akira Matsumoto 1 Carlotta Guiducci 2 Yuji Miyahara 1	1 Tokyo Medical and Dental University 2 École Polytechnique Fédérale de Lausanne	Establishment of label-free electrochemical DNA detection methods using isothermal nucleic acid amplification

1-52	Kosuke Muraoka 1 Seiji Ishikawa 1,2 Hiroshi Sezaki 1,2 Tomonori Maeda 1,2 Shin-Ichiro Kuroki 1	1 Hiroshima University 2 Phenitec Semiconductor Corporation	Control of the gate oxide thickness and interface states in SiC-MOS interface using barium interface passivation
1-53	Yoshihiro Matsuki Masatsugu Niwayama	Shizuoka University	Development of deep muscle oximeter for deformed tissues by pinching using near-infrared spectroscopy
1-54	Keita Suzuki Masatsugu Niwayama	Shizuoka University	Intestinal tissue oxygenation measurement using spatially resolved near-infrared spectroscopy
1-55	Masaya Yamamoto 1 Tsuyoshi Kimura 2 Akio Kishida 2	1 Tohoku University 2 Tokyo Medical and Dental University	Raman spectroscopic analyses for decellularized joint tissues
1-56	Takeshi Kumaki 1 Tetsushi Koide 2	1 Ritsumeikan University 2 Hiroshima University	Morphological Image Processing for Embedded Processors
1-57	Rioko Akiyama 1 Miho Taniguchi 1 Chiu Wan-Thing 2 Chang Tso-Fu Mark 2 Tomoko Hashimoto 1 Naoko Sano 1 Masato Sone 2 Hiromichi Kurosu 1	1 Nara Women's University 2 Tokyo Institute of Technology	Higher-order structure analysis of metallized silk fibroin by solid state NMR
2-1	Toshihiro Takamatsu 1,2 Yuma Suenaga 3 Manabu Kurosawa 4 Syosaku Ota 5 Akitoshi Okino 3	1 Tokyo University of Science 2 National Cancer Center 3 Tokyo Institute of Technology 4 Kobe University 5 Kobe Design University	Gastrointestinal Hemostasis for Warfarin Dosed Pig by CO2 Low Temperature Plasma Jet