

Date	Start	End	Session	Room	Presentation No.	Abstract No.	Title of Abstract	Presenter	
2024/3/4	15:10	15:25	Plasma Science and Technologies 1	Room B	04pB05O	1025	Implanting Ag nanoparticles in different positions of GZO thin film to apply on soft touch sensing	Min-Hsuan	Chen,
2024/3/4	15:25	15:40	Plasma Science and Technologies 1	Room B	04pB06O	1039	Growth of ZnO thin films on Si(111) by embedding Zn dots as seed layer and buffer layer via strategic RF sputtering method and nonlinear optical analysis	Kuang Yao	Lo
2024/3/4	15:40	15:55	Plasma Science and Technologies 1	Room B	04pB07O	1043	A huge switching response of thermochromic Mo-doped VO2 using a semi-conductive MoOx cap prepared by plasma-enhanced atomic layer deposition	Lin	Hsuan-Yu
2024/3/4	15:55	16:10	Plasma Science and Technologies 1	Room B	04pB08O	1069	Reactive radiofrequency magnetron plasma epitaxial silicon carbide wide band-gap semiconductor film	Szu-Hui	Lee
2024/3/4	18:00	18:15	Plasma Science and Technologies 2	Room B	04pB09O	1202	Prediction Model for RF Bias Effect on Etch Resistance of Amorphous Carbon in Plasma Enhanced Chemical Vapor Deposition	Yusuke	Ando
2024/3/4	18:15	18:30	Plasma Science and Technologies 2	Room B	04pB10O	1044	The thickness and stacking sequence-dependent interface property of Al-doped HfO2 for high-k dielectrics	De-Hao	Li
2024/3/4	18:30	18:45	Plasma Science and Technologies 2	Room B	04pB11O	1046	The Characterization of Silicon Doping into HfO2 with Tris(dimethylamino)silane as the Precursor for Plasma-Enhanced Atomic Layer Deposition	Wang	Wei-Zei
2024/3/4	18:45	19:00	Plasma Science and Technologies 2	Room B	04pB12O	1010	Long-Area and High-Speed Nitridation of Si Substrate by Improved Race-Track Loop-Type Ar/H₂/N₂ Induction Thermal Plasmas with Blowout Gas Flow	Yasunori	Tanaka
2024/3/4	15:10	15:25	Nanomaterials 1	Room C	04pC05O	1241	Plasma-Enabled Graphene Quantum Dot/PEDOT:PSS Hydrogels for Anticancer Drug Nanocarriers	Michael Ryan	Rahardja
2024/3/4	15:25	15:40	Nanomaterials 1	Room C	04pC06O	1015	Fabrication of anatase/rutile TiO₂ composite nanorods with improved photocatalytic activity	Chih-Chen	Kuo
2024/3/4	15:40	15:55	Nanomaterials 1	Room C	04pC07O	1066	Porous zirconium-based metal-organic framework prepared for detection of sodium nitrite	Pin-Tang	Lin
2024/3/4	18:30	18:45	Nanomaterials 2	Room C	04pC10O	1125	Fabrication of transfer-free graphene FETs on sapphire substrates utilizing the agglomeration phenomenon of the thick Ni pattern with ultra-fine structure	Ichiro	Kato
2024/3/4	18:45	19:00	Nanomaterials 2	Room C	04pC11O	1102	In situ electron spin resonance for measurement of defect formation on hexagonal boron nitride by plasma processing	Kenichi	Inoue
2024/3/4	15:40	15:55	Nitride Semiconductors 1	Room D	04pD06O	1232	Analysis of the sub-bandgap optical absorption in sub-100-nm-thick Al_{1-x}In_xN alloys by using photothermal deflection spectroscopy	Kouki	Noda
2024/3/4	15:55	16:10	Nitride Semiconductors 1	Room D	04pD07O	1233	Characterizations of the thermal properties for nitride-based wide bandgap semiconductors by photothermal deflection spectroscopy	Mayu	Nomura
2024/3/5	10:30	10:45	Plasma Science and Technologies 3	Room B	05aB03O	1008	Plasma sources sputtering nanoscale contaminants with low-energy ion flux on front-end mirrors in ITER optical diagnostics	Andrey	Ushakov
2024/3/5	10:45	11:00	Plasma Science and Technologies 3	Room B	05aB04O	1229	Ion composition in Ar/c-C4F8/O2 pulsed capacitively-coupled plasma evaluated using ion production rates from time-resolved electron density measurements	Haruka	Suzuki
2024/3/5	11:00	11:15	Plasma Science and Technologies 3	Room B	05aB05O	1238	Numerical study on the influence of applied voltage polarity on the launching characteristics of surface-launched plasma bullets	Tatsuru	Shirafuji
2024/3/5	15:00	15:15	Plasma Science and Technologies 4	Room B	05pB09O	1073	Electrochromic properties of co-sputtering tungsten trioxide doped titanium dioxide with DC and RF plasma sources	Chen-En	Tsai
2024/3/5	15:15	15:30	Plasma Science and Technologies 4	Room B	05pB10O	1150	Study on Particle Acceleration Mechanism and Effect on Electron Temperature Due to Interaction of Argon and Helium Plasma with a Perpendicular Magnetic Field	L. Malith M.	De Silva
2024/3/5	15:30	15:45	Plasma Science and Technologies 4	Room B	05pB11O	1213	Influence of frequency on the electrical and optical characteristics of atmospheric pressure helium microplasma array	Jun-Seok	Oh
2024/3/5	15:45	16:00	Plasma Science and Technologies 4	Room B	05pB12O	1220	Visualization of fluctuation phenomena in planar thermal plasma jet generated by diode-rectified multi-electrode AC arc	Manabu	Tanaka
2024/3/5	10:15	10:30	Nanomaterials 3	Room C	05aC03O	1237	Synthesis of Ternary Titanium-Transition Metal Nitrides Nanoparticles by Induction Thermal Plasmas	Yirong	Wang
2024/3/5	10:30	10:45	Nanomaterials 3	Room C	05aC04O	1152	Investigation of Room-Temperature Solution-Processed Cu:NiO/NiO Bilayer Resistive Random-Access Memory	Chia-Yin	Lin
2024/3/5	10:45	11:00	Nanomaterials 3	Room C	05aC05O	1251	Investigation of Room-Temperature Solution-Processed Cu:NiO /NiO Nanoparticles Bilayer Resistive Random-Access Memory	Chia-Yin	Lin
2024/3/5	11:00	11:15	Nanomaterials 3	Room C	05aC06O	1022	Pulsed laser ablation in dopant-containing liquid for producing Al-doped ZnO nanoparticles	Zia	Uddin
2024/3/5	15:00	15:15	Nanomaterials 4	Room C	05pC09O	1180	Carbon dioxide fixation using plasma jet reactor	Yukio	Hayakawa
2024/3/5	15:30	15:45	Nanomaterials 4	Room C	05pC11O	1085	Two-step redox reactions of iodine molecules in single-walled carbon nanotubes for high capacity and high energy batteries	Tatsuya	Akiyama
2024/3/5	15:45	16:00	Nanomaterials 4	Room C	05pC12O	1242	Microplasma-Enabled Sustainable Synthesis of Nitrogen-Doped Graphene Quantum Dots for Sensitive Detection of 4-Nitrophenol	Michael Ryan	Rahardja
2024/3/5	10:45	11:00	Nitride Semiconductors 2	Room D	05aD04O	1214	Effect of crystallinity of N-polar AlN on the performance of GaN/AlN High Electron Mobility Transistor	Aina Hiyyama	Zazuli
2024/3/5	11:00	11:15	Nitride Semiconductors 2	Room D	05aD05O	1183	Fabrication of high AlN-mole-fraction Al0.7Ga0.3N channel HFETs using a single-crystal AlN substrate	Yoshinobu	Kometani
2024/3/5	15:45	16:00	Nitride Semiconductors 3	Room D	05pD11O	1130	Effect of N₂ Radical Excitation Power on a-plane GaN Hetero Remote Epitaxy on r-plane Sapphire Substrate	Ryoya	Yokoi
2024/3/5	10:00	10:15	Bio Applications 1	Room E	05aE02O	1191	Nitrogen Fixation to Leaf Mold Using Air Plasma and Evaluation of Phenotype Response of Sugarcane to Nitrogen-Fixed Fertilizer	Takumi	Nakao
2024/3/5	10:15	10:30	Bio Applications 1	Room E	05aE03O	1121	Hard carbon derived from spent coffee grounds as anode for sodium-ion batteries	Po-Hung	Wang

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2024/3/5	10:30	10:45	Bio Applications 1	Room E	05aE04O	1257	Influence of CO and H2O2 in plasma agriculture	Pankaj	Attri
2024/3/5	10:45	11:00	Bio Applications 1	Room E	05aE05O	1211	Molecular structure analysis of DBD plasma irradiated DMPO by LC-MS	Takamasa	Okumura
2024/3/5	11:00	11:15	Bio Applications 1	Room E	05aE06O	1187	Intracellular RONS Generation in Plasma-Irradiated Human Lung Cancer Cells	Hirofumi	Kurita
2024/3/5	15:00	15:15	Bio Applications 2	Room E	05pE09O	1160	Antibacterial micro-texture on roll surface for mass production	Minoru	Sasaki
2024/3/5	15:15	15:30	Bio Applications 2	Room E	05pE10O	1033	Microplasma engineering of shape-controlled plasmonic nanostructures for SERS-based sensing	Tzu-Hsiang	Chien
2024/3/5	15:30	15:45	Bio Applications 2	Room E	05pE11O	1071	Oxygen plasma treated polydimethylsiloxane electronic skin with memory stretch	Yao-Hua	Wang
2024/3/5	15:45	16:00	Bio Applications 2	Room E	05pE12O	1196	Microplasma-assisted and polycarbonate directed-synthesis graphene quantum dots for simultaneously metal ion and biomolecules sensing	Chia-Hung	Lin
2024/3/6	10:00	10:15	Plasma Science and Technologies 5	Room B	06aB02O	1173	Numerical Analysis to Optimize Antenna Design for Curling Probe	Daisuke	Ogawa
2024/3/6	10:30	10:45	Plasma Science and Technologies 5	Room B	06aB04O	1171	Plasma simulation of HF plasma generated in dual-frequency chamber for high aspect ratio dielectric etching	Shigeyuki	Takagi
2024/3/6	10:45	11:00	Plasma Science and Technologies 5	Room B	06aB05O	1029	Molecular Dynamics Simulation for Coalescence of Vacancies in Tungsten Crystal	Sotaro	Tsuru
2024/3/6	16:40	16:55	Plasma Science and Technologies 6	Room B	06pB11O	1089	Determination of ground state atomic concentrations during etching process	Michael	Mo
2024/3/6	16:55	17:10	Plasma Science and Technologies 6	Room B	06pB12O	1119	Cryogenic Atomic Layer Etching of Silicon Nitride by Alternating Surface Modification with HF purge and Ar plasma	Shih-Nan	Hsiao
2024/3/6	17:10	17:25	Plasma Science and Technologies 6	Room B	06pB13O	1129	In-situ Chamber Conditioning of Remote Plasma System for TiN Etch Stability	Yi Chen	Kuo
2024/3/6	17:25	17:40	Plasma Science and Technologies 6	Room B	06pB14O	1252	Reactive Gas Flow Sputtering Prepared Y-O-F Coating for Anti-plasma Etching Purpose	Ping-Yen	Hsieh
2024/3/6	10:00	10:15	Nanomaterials 5	Room C	06aC02O	1158	Deep Oxidation of NO: Plasma Catalysis vs Catalytic Ozonation	Li Si	Ko
2024/3/6	10:15	10:30	Nanomaterials 5	Room C	06aC03O	1124	Effects of carrier gas composition on C₄/<sub>F₈/<sub>conversion achieved with plasma catalysis	Amir	Machmud
2024/3/6	10:30	10:45	Nanomaterials 5	Room C	06aC04O	1088	Upcycling of waste polyethylene terephthalate into hierarchical porous carbons for high performance supercapacitor	Li-Ming	Lu
2024/3/6	10:45	11:00	Nanomaterials 5	Room C	06aC05O	1087	Starch-derived hard carbon as the anode materials for high-performance sodium ion batteries	Yao-Yang	Chang
2024/3/6	11:00	11:15	Nanomaterials 5	Room C	06aC06O	1041	Development to the thermoelectric properties of PEDOT: PSS-based free standing film for the utilization of unused energy	Shafayat	Hossain
2024/3/6	11:15	11:30	Nanomaterials 5	Room C	06aC07O	1034	A study on Rudorffite Ag3BiI6 photo-absorber to improve optoelectronic performance	Md Arif Ul	Islam
2024/3/6	17:10	17:25	Nanomaterials 7	Room C	06pC12O	1231	Lubricant-infused Metallic Nanotube Array with Excellent Water Repellency and Stability	Pakman	Yiu
2024/3/6	17:25	17:40	Nanomaterials 7	Room C	06pC13O	1120	Surface modifications for reducing mold adhesion	Yu-Sheng	Lu
2024/3/6	10:45	11:00	Nitride Semiconductors 4	Room D	06aD03O	1216	Hydrogen cleaning for High-quality AlInN layers	Taichi	Nishikawa
2024/3/6	11:00	11:15	Nitride Semiconductors 4	Room D	06aD04O	1224	Effects of barrier growth temperature on green GaInN LED characteristics	Mitsuki	Yanagawa
2024/3/6	11:15	11:30	Nitride Semiconductors 4	Room D	06aD05O	1236	AlGaIn based-UVLED p-type electrode:Yield evaluation of ITO/Al and Ni/Au	Naoki	Hamashima
2024/3/7	10:00	10:15	Plasma Science and Technologies 7	Room B	07aB02O	1097	Plasma Discharge Inside a Laser-Induced Cavitation Bubble	Siwei	Liu
2024/3/7	10:15	10:30	Plasma Science and Technologies 7	Room B	07aB03O	1056	The investigation of liquid flow induced by DC needle plasma using particle image velocimetry	Dai-En	Li
2024/3/7	10:30	10:45	Plasma Science and Technologies 7	Room B	07aB04O	1151	Development of High Surface Area Iron Carbide Catalysts Using Electrosprinning via Argon Microwave Plasma for Hydrogen Peroxide Generation	Danang Tri	Hartanto
2024/3/7	10:45	11:00	Plasma Science and Technologies 7	Room B	07aB05O	1078	Low-Temperature and Catalyst-Free Plasma Synthesis of Plastics-Derived Graphene Quantum Dots	Ren-jie	Weng
2024/3/7	11:15	11:30	Plasma Science and Technologies 7	Room B	07aB07O	1113	Dependence of Gas Injection from Gap between Upper Coils and Lower Coils on Si Nanoparticle Synthesis by Tandem Modulated Induction Thermal Plasma	Jingqian	Peng
2024/3/7	10:00	10:15	Nanomaterials 8	Room C	07aC02O	1244	Development of the Ultra-High Efficiency Electrode of Copper(II) Oxide Christmas-Tree Deposited on Nickel Foams for HER Application	Chia-Ching	Wu
2024/3/7	10:15	10:30	Nanomaterials 8	Room C	07aC03O	1245	Nanogenerator based on ZnO nanorods via hydrothermal method	Shao-Chun	Huang
2024/3/7	10:30	10:45	Nanomaterials 8	Room C	07aC04O	1017	Enhanced Synthesis of Highly Crystalline Single-Walled Carbon Nanotubes Via Microplasma-Assisted Multi-Step Chemical Vapor Synthesis Reactor	Guohai	Chen
2024/3/7	10:45	11:00	Nanomaterials 8	Room C	07aC05O	1228	Hydrothermal Synthesis of MoS2 with NO2 Gas Sensing Properties for Gas Sensor	Zhe	Lo

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2024/3/7	11:00	11:15	Nanomaterials 8	Room C	07aC06O	1075	Plasma-Engineered Carboxylic Compound-Derived Graphene Quantum Dots as Multifunctional Nanosensors for Simultaneous Detection of Biomarkers and Metal Ions	Yan-Yi	Chen
2024/3/7	10:00	10:15	Bio Applications 3	Room E	07aD02O	1154	Investigation of autophagy inducer on cancer cell treated by PAL	Taishi	Yamakawa
2024/3/7	10:15	10:30	Bio Applications 3	Room E	07aE03O	1098	Cold atmospheric plasma induces cell death through activation of the ATM-Chk2-p53 pathway	Tamaki	Muratani
2024/3/7	10:30	10:45	Bio Applications 3	Room E	07aE04O	1140	A novel plasma-assisted nonsolvent induced phase separation method for the preparation of high piezoelectric response, superhydrophobic, and self-cleaning membranes	Yueh-Han	Huang
2024/3/7	10:45	11:00	Bio Applications 3	Room E	07aE05O	1105	Control of hMSC differentiation in culturing on carbon nanowalls	Yuki	Kojima
2024/3/7	11:00	11:15	Bio Applications 3	Room E	07aE06O	1133	Development of micro perfusion culture system for promoted cell growth	Hayata	Okino
2024/3/7	11:15	11:30	Bio Applications 3	Room E	07aE07O	1225	Investigation of Transdermal Absorption Enhancement by Drugs Treated with Surface Discharge Plasma	Ayano	Goto