

Registration 9:00-							
Plasma Science 3 Surface and Thin Films <Chair> W. H. Chiang (National Taiwan University of Science and Technology)	9:30-09:45 1137 <06aB010> Simon Kos "Overstoichiometric Transition-metal Nitride Coatings: Is Magnetron Sputtering a Way to form Hard Dinitride Coatings?"	Nitride Semiconductors 3 Etching & Surface treatments <Chair> S. Keller (University of California, Santa Barbara)	Nanomaterials 3 Nanomechanical and Electronic Devices <Chair> J. Sakurai (Nagoya University)	9:30-10:00 Invited Lecture <06aD011> Kenji Fukuzawa (Nagoya University) "Real-time Visualization of nm-thick Liquid Films by Ellipsometric Microscopy"	Bioapplications 3 Plasma Medicine <Chair> E. Martinez (Consorzio RFX)	9:30-10:00 Invited Lecture <06aF011> Matteo Gherardi (Università di Bologna) "Current Research Activities on Plasma-assisted Biomedical Applications and Nanoparticle Synthesis at UniBO"	
	09:45-10:00 1176 <06aB020> Kazunori Iga "Ion Energy Distribution High Power Impulse Magnetron Sputtering Discharge"			10:00-10:30 Invited Lecture <06aD021> Heeyoung Chae (Sungkyunkwan University) "Plasma-enhanced Atomic Layer Deposition and Plasma-enhanced Chemical Vapor Deposition for Flexible Moisture Barrier Layers"		10:00-10:15 1280 <06aF020> Jaeho Kim "A Minimalized Microwave Air Plasma Jet for Medical Applications"	
	10:00-10:15 1049 <06aB030> Yusuke Miki "Growth of Ge _{1-x} Sn _x Layer by Metal-organic Chemical Vapor Deposition Method using Tetrakis Dimethylamino Tin"			10:15-10:30 1100 <06aE020> Xu Li "A Study of in-situ Auger Spectroscopic Surface Analysis in Development of Atomic Layer Etch for GaN/AlGaIn based Power Device Fabrication"		10:15-10:30 1089 <06aF030> Zhi Ying Chen "A Biocorrier Surface Modification of PP Nonwoven Fabric by O ₂ Plasma and Photo-induced Grafting Thermo-sensitive Hydrogels to Improve of Immobilization Vitamin K1 for Biomaterial Application"	
	10:30-10:45 1115 <06aB050> Satoru Kaneko "Large Constriction of Lattice Constants in Epitaxial Oxide Film on Silicon Substrate"			10:30-10:45 1133 <06aE030> Masato Imamura "Low Damage Stripping on GaN Layer by HDRF Plasma Technology (High Density Radicals Flux) "		10:30-10:45 1205 <06aD030> Taige Dong "Highly Stretchable Crystalline Silicon Networks Woven by Self-automated and Self-assembly in-plane Silicon Nanowires"	10:30-10:45 1246 <06aF040> Chia-Feng Hsien "To Immobilize Chinese Herb Extracts on TPU Non-woven Fabric by O ₂ Plasma Treated and Surface Graft Polymerization of Chitosan-PAA Hydrogel for Anti-bacterial and Biomedical Applications"
	10:45-11:00 1011 <06aB060> Sajjan Ajja "Two-step Treatments of Photoemission-assisted Plasma Irradiation for Cu/Si Surfaces Smoothing"			10:45-11:00 1104 Yannick Pilloux "Low Damage Stripping on GaN Layer by HDRF Plasma Technology (High Density Radicals Flux) "		10:45-11:00 1090 <06aF050> Chun Yu Wu "Development of Zirconia Surface Modifications by O ₂ Plasma Treatments and UV Graft PAA/P-GA Hydrogel Carrying Biomolecule for Osteointegration Capability and Antibacterial Effect"	
Poster Session ② 11:00-12:30							
Lunch 12:30-14:00							
Plasma <06pB071> Wei-Hung Chiang (National Taiwan University of Science and Technology) Nanotechnology Engineering using Microplasmas: Synthesis and Applications" <Chair> X. Wang (National Institute of Advanced Industrial Science and Technology)	14:00-14:30 Invited Lecture <06pE051> Daniel Feczell (University of New Mexico) "High-speed Nonpolar and Semipolar Light-emitting Diodes for Visible Light Communication"	Nitride Semiconductors 4 Optical Devices 1 <Chair> X. Wang (National Institute of Advanced Industrial Science and Technology)	Nanomaterials 4 Functional Nanomaterials <Chair> S. Miyazaki (Nagoya University)	14:00-14:30 Invited Lecture <06pD041> Ju-Liang He (Feng Chia University) "HIPIMS Coatings for Stretchable Electronics"	Bioapplications 4 Plasma Medicine II <Chair> M. Gherardi (Università di Bologna)	14:00-14:30 Invited Lecture <06pF061> Emilio Martinez (Consorzio RFX) "Interacting with Cellular Processes using a Helium Plasma"	
	14:30-14:45 1050 <06pB080> Mika Takahashi "Polycarbonate Surface after Atmospheric Pressure Plasma Treatments"			14:30-15:00 Invited Lecture <06pD051> Yi-Chia Chou (National Chiao Tung University) "Silicide and Germanide Formation in Semiconductor Nanowires"		14:30-14:45 1244 <06pF070> Saitong Muneekaw "Cytotoxicity of L-929 and 3T3 Mouse Fibroblasts by Atmospheric Pressure Plasma Jet Treatments"	
	14:45-15:00 1301 <06pB090> Yosuke Sato "Numerical Analysis on Size Dependency of Particulate Matter Charging Property in Plasma Electric Collector"			14:45-15:00 1237 <06pE070> Muhammad Ajmal Khan "Characterization of AlGaIn based Lower Bound (280-300nm) UVB LED Device Grown by MOCVD"		14:45-15:00 1029 <06pF080> Yi-Jing Cheng "Plasma-activated Medium as Adjuvant Therapy on Lung Cancer with Malignant Pleural Effusion"	
	15:00-15:15 1272 <06pB100> Yoshimi Watanabe "Effects of Carbon and Nitrogen in Iron on Bonding Performance with Stainless Steels by Spark Plasma Sintering Method"			15:00-15:15 1112 <06pE080> Han-Ming Wu "Photoelectrical Properties of Flexible InGaIn Light Emitting Membranes Separated from Si Substrate"		15:00-15:30 Invited Lecture <06pD061> Linwei Yu (Nanjing University) "Programming Silicon Nanowires for High Performance Large Area Electronics and Energy Applications"	15:00-15:15 1085 <06pF090> Hiromasa Tanaka "Plasma-activated Medium and Plasma-activated Ringer's Lactate Solution Exhibited Anti-tumor Effects through Different Mechanisms"
	15:15-15:30 1290 <06pB110> Hirotomo Itagaki "Iron Nitriding by Quasi-atmospheric Microwave Excited Nitrogen Radical Flow"					15:15-15:30 1016 <06aF100> Yugo Hosoi "Antitumor Agents in the Plasma-activated Lactate in Ringer's Solution (PAL) "	
Break 15:30-15:45							
Topical Session 1 The States of the Art Plasma-bioapplications <Chair> K. Ishikawa (Nagoya University) K. Nitsu (Nagoya University)	15:45-16:15 Invited Lecture <06pA121> Alexander Fridman (Drexel University) "Atmospheric Pressure Plasma Sources for Agricultural Applications"						
	16:15-16:45 Invited Lecture <06pA131> Klaus-Dieter Weltmann (INP Greifswald e.V.) "Development of Plasma Sources for Medical Applications"						
	Break 16:45-17:00						
	17:00-17:30 <06pA141> Kiichi Nitsu (Nagoya University) "Energy-autonomous Biomedical IoTs using Plasma-enhanced Bio-fuel Cell and Low-energy CMOS Biosensor"						
	17:30-18:00 Invited Lecture <06pA151> Zdenko Machala (Comenius University) "Plasma Activated Water: Air Plasma-induced Gas-phase and Liquid-phase Reactive Species for Biomedical Applications"						
	18:00-18:30 Invited Lecture <06pA161> Stephan Reuter (Princeton University) "Energy Transfer in Atmospheric Pressure Plasma Jets used in Medicine"						
Banquet 18:30-20:30							