| 3/3 (FRI) | | | | | | | |
|---|--|--|--|--|---|--|--|
| Registration 9:10- | | | | | | | |
| Plasma Science 4 Multiphase Plasma -Chair> Daisuke Ogawa (Chubu University) | 9:30-10:00 Invited Lecture -03:a80:11- Peter J. Bruggeman (University of Minnesota) "Plasma-Uquid Interactions: Fundamentals and Applications" | Nitride Semicondu ctors 2 Optical Devices 2 <chair> Q. Sun (Chinese Academy of Science)</chair> | 9:30-10:00 Invited Lecture <03aC011- Kochi Naniwae (EL-Seed Corp.) **Noth-eye Patterned Sapphire Substrate Technology for Low Cost and High Efficiency LEDs** | Nanomater ials 3 Solar Cell and Related Materials <chair> Y. Ichikawa (JST FUTURE- PV Innovation</chair> | 9:30-10:00 Invited Lecture -03:a0011- Valkim Lichiawa (JST FUTURE-PV Innovation) -Silicon Nano-wall Arrays and their Application to Wide Bandgap Solar Cells* | Bioapplicat ions 3 Plasma Agricalture - Chair> A. Fridman (Drexel University | <03aE01I> Suk Jae Yoo (National Fusion Research Institute) |
| | 10:00-10:15 1048 https://doi.or/10.15/ Nortako Sakakibara Toeneration of H ₂ O Leo Delectric Barrier Discharge as a Promising Unique Reaction Field at Cryogenic Environments* 10:15-10:30 1065 https://doi.or/10.15/ 10:15-10:30 1065 doi.or/10.15/ 10:15-10:30 1065 doi.or/10.15/ 10:30-10:45 1047 | | 10:00-10:15 1273 <a "="" 10.10="" 10.15="" doi.org="" href="https://doi.org/10.15/10</td><td>), T. Itoh ((Gfu University)</td><td>10:00-10:15 1165 https://doi.org/10.15/ Shunya NatorTwo-Step Photon Absorption in Intermediate Band Solar Cells Controlled by the Electron Filling Ratio of Quantum Dots* 10:15-10:30 1200 | | 10:00-10:15 1163 <038E020> Chin Wel Llaa **Development of a Compact Argon-based Round Atmospheric-Pressure Plasma Jet for Sterilization of Trichophyton Rubrum and Candida Allicians* 10:15-10:30 1193 <038E030> Massahi Okachi Okygen Radicals on Growth Promotion of Budding Yeast Cells* 10:30-10:45 1353 <038E040> Massahiro Varmanaka **Non-Destructive Observation of Rice Grains by Optical Coherence Tomography* 10:45-11:00 1350 <038E050> Katsuyuki Takahashi **Evaluation of Hydroxyl Radicals Produced by Discaharge Inside Bubble in Water with Organic Dye* | | |
| Plasma Science 5 Etching <chair> Makoto Sekine (Nagoya University)</chair> | Break 11:00-11:15 11:15-11:45 Invited Lecture <030300G1 Hisataka Hayashi (TOSHIBA) TLayer-by-layer Etching of LaAISIO,* 11:45-12:00 1146 <03030070- Xu I **Damage to AlGaN/GaN Power Device Materials from CJ, and AF Plasma based Atomic Layer Etching and Recovery via a Low **Layer Etching and Recovery via a Low **Layer Etching and Recovery via a Low **Layer Etching and Thermal **Layer Etching and Thermal **Layer Etching and Thermal **Layer Etching and Second Thermal **Layer Etching | Nitride Semicondu ctors 3 Electron Devices 1 <chair> H. Kawai (POWDEC K.K.)</chair> | Break 11:00-11:15 111:5-11:45 Invited Lecture (-)3a2:0615 Enrico Zanoni (Universita' di Padova) "Role of Deep Levels and Time-Dependent Breakdown Effects in Determining Performances and Reliability of Power Gan Devices" 11:45-12:15 Invited Lecture (-0)3a:0715 Tumimasa Horikiri (SCIOCS) "Development of Free-Standing Gan Substrates and High Breakdown Voltage Gan p-n Diodes" | ials 4 Nanocomp osite Alloy | Braak 11:00-11:15 11:15-11:45 Invited Lecture -0300061 Nook Fukuta (National Institute for Materials Science) 'Control of Growth and Impurity Doping in Ge/SI Core-shell Nanowires* 11:45-12:00 1255 -03a0070> Hassin Sato Formation Process of Nanocrystallized Layer in Fe-Ni Alloy by Sliding Wear* 12:00-12:15 1272 -03a0080> Naoki Hamano Forder of Torby Ti Functionally Graded Materials using a Slurry Layering Method* | Bioapplications 4 Biomicrofluidics and Meterial Processing <chair> M. Sasaki (Toyota Technologi cal Institute)</chair> | Break 11:00-11:15 11:15-11:45 Invited Lecture <0.38-061> Yoshikazu Hiral (Kyoto University) Yoshikazu Hiral (Kyoto University) Microstructuring Techniques* 11:45-12:00 1113 <0.38-070> Yusuke Nakanshi *Analysis of Plasma-Generated Reactive Species in Liquid* 12:00-12:15 1284 <0.38-080> Chen-Kuang Chiang Improvement of the Signal on Microfludic Paper-based Device by Plasma-induced Polymerization of |
| | 12:15-12:30 1274 <03aB090> Minoru Sazaki "Multi-Stepped Silicon Micro-Trenches with Smooth Sidewalls to Deposite Superconducting Material for Magnetic Energy Storage" | | 12:15-12:30 1301 «OsaCOBO» Noriyuki Taoka "Impacts of Oxidants for ALD Process on Al ₂ OyGaN Interface Properties" | | Lunch 12:15-14:00 | | Sulfobetaine Methacrylate" 12:15-12:30 1098 <03a5090> Chun-Ping Hsiao "Aerosol-Assisted Atmospheric Pressure Plasma Depositing Biocomposite PE Coatings: Investigation of Enhancing the Coating Coherence" |
| Topical Session 1 Bio- Application s based on Plasma Technolog y <chair> S. J. Yoo (National Fusion Research Institute)</chair> | Lunch 12:30-14:00 Lunch 12:30-1 | | | | | | |
| | - Claphal2-1 *Massahi Ueda (Okayama University) *Analysis of Inflammation after Hemostasis with Non-Thermal Plasma by using Molecular Imaging Technique* 15:45-16:15 Invited Lecture - Claphal3-1- *K-Hun Jenng (KAIST) *Nanoplasmonic Surfaces for Surface Enhanced Raman Scattering* | | | | | | |
| Poster Session ② 16:30-18:00 | | | | | | | |
| Banquet 18:00-20:00 | | | | | | | |