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| A-1  | Katsuharu HOSHINO | Oita University                                                               | Research on the Role of Carbon Offsets in the Building Construction Work                                                                                  |
| A-2  | Miki INOUE        | Yokohama City University                                                      | Temperature dependence of the Raman spectra of CVD-derived graphene films                                                                                 |
| A-3  | Shuto ITO         | Nagoya Institute of Technology                                                | Water and Oil Transport with Open Capillary Channels Mimicking Animal                                                                                     |
| A-4  | Yukiko KAWAMURA   | Mie University                                                                | A New Process for Estimating Structures of Lignin -Application of affinity for protein-                                                                   |
| A-5  | Hyunwoong SEO     | Kyushu University                                                             | Counter electrode based on conductive polymer for cost-effective dye-sensitized solar cells                                                               |
| A-5  | Ping-chun TSAI    | National Cheng Kung University                                                | <i>Ab initio</i> screening of transition metals as dopants for $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode materials in lithium ion batteries             |
| A-6  | Wataru IWASAKI    | National Institute of Advanced Industrial Science and Technology (AIST)       | Development of Ear-Type Wearable Thermometer for Cattle                                                                                                   |
| A-7  | Liang ZHAO        | Kyushu university                                                             | Oxygen exchange kinetics on Pr-CeO <sub>2</sub> cathode material using an optical transmission relaxation method                                          |
| A-7  | Shipra CHAUHAN    | National Institute for Materials Science (NIMS),Hokkaido University           | Fabrication and characterization of Pt and ceria nanowire interface for improvement of CO tolerance and ORR on Pt                                         |
| A-8  | Ge YIN            | Tokyo Institute of Technology                                                 | Utilization of Nb <sub>3</sub> O <sub>8</sub> Nanosheets for CO <sub>2</sub> Photoreduction.                                                              |
| A-8  | Yuriy PIHOSH      | The University of Tokyo                                                       | Development of an Effective Heterojunction WO <sub>3</sub> /BiVO <sub>4</sub> Nanostructure for Photocatalytic Water Splitting                            |
| A-9  | Atsuko KOSUGA     | Osaka Prefecture University                                                   | Pressure-mediated Control of Structure and Transport Property in Nanostructured Thermoelectric Bulk Chalcopyrite                                          |
| A-9  | Akiyo KAWAKAMI    | Tokyo University of Science                                                   | Examination of appropriate component dimensions for an n-type Mg <sub>2</sub> Si unileg thermoelectric power generation module                            |
| A-10 | Haruna TADA       | Tokyo Denki University                                                        | Optical investigation of DLC film property for cell adhesion                                                                                              |
| A-11 | Shunta HARADA     | Nagoya University                                                             | Correlation between Surface Morphology and Threading Dislocation Conversion in Solution Growth of SiC                                                     |
| A-11 | Masashi KATO      | Nagoya Institute of Technology                                                | Time-Resolved Observation of Free Carrier Absorption for Carrier Lifetime Measurement of SiC                                                              |
| B-1  | Yuji HIGAKI       | Kyushu University                                                             | Anti-biofouling Properties of Super-hydrophilic Polyelectrolyte Polymer Brushes                                                                           |
| B-1  | Zhenyu GAO        | University of Tsukuba                                                         | New Materials Design for Nanoparticle Assisted Boron-neutron Capture Therapeutics                                                                         |
| B-1  | Xinlong WANG      | National Institute for Materials Science (NIMS),University of Tsukuba         | Keeping Multipotency of Mesenchymal Stem Cells on Micropatterned Surfaces                                                                                 |
| B-1  | Haejoo LEE        | Kyushu University                                                             | Study of Synthetic Polymer Ligands as Plastic Antibody                                                                                                    |
| B-2  | Akiko OBATA       | Nagoya Institute of Technology                                                | Silica / poly(3-hydroxybutyrate-co-4-hydroxybutyrate) composites for bone regeneration                                                                    |
| B-2  | Ayako OYANE       | National Institute of Advanced Industrial Science and Technology (AIST)       | Immobilization of a cell-stimulating substance within a calcium phosphate coating by a laser-assisted biomimetic process                                  |
| B-3  | Takayuki NONOYAMA | Hokkaido University                                                           | Soft Ceramics: Hybridization of Mineral and Tough Hydrogel Based on Biomineralization                                                                     |
| B-3  | Nobuo SAKAI       | Kyushu Institute of Technology                                                | Observation of frictional behavior of articular cartilage using biaxial testing machine equipped on microscope                                            |
| B-4  | Kazutoshi IJIMA   | Tokyo University of Science                                                   | Biomimetic Calcium Phosphate Coating on Cell Culture Plates for Application in Osteobiology                                                               |
| B-5  | WEI WEI           | Chinese Academy of Sciences                                                   | Potential Pharmaceutical Applications of Uniform-sized Chitosan Micro/Nanoparticles with Autofluorescent Property                                         |
| B-5  | Mari TAKAHASHI    | Japan Advanced Institute of Science and Technology                            | Magnetic Core-Plasmonic Shell Dual Functional Nanoparticles as a Novel Cellular Probe for Bioapplications                                                 |
| B-6  | Hiroya NISHIKAWA  | Kyushu University                                                             | Control of Reversible Phase Transition Between Blue Phase and Chiral Nematic Phase by use of Photothermal-responsive Chiral Dopants with Anthracene units |
| B-6  | Ying WEN          | Kyushu University                                                             | Confocal Laser Scanning Microscopic Observation of a Lattice Plane of Blue Phase I                                                                        |
| B-7  | Hiromi TOKORO     | Shinshu University                                                            | Development of a PVC Gel Actuator using Nano-Fiber Technology                                                                                             |
| B-8  | Michihiko NAKANO  | Kyushu University                                                             | Rapid DNA Detection by Microbead based Dielectrophoretic Impedance Measurement with Modified Voltage Waveform                                             |
| B-8  | Katoch AKASH      | Inha University                                                               | Novel Routes for Obtaining Good Sensing Abilities of Oxide Nanofibers Sensors                                                                             |
| B-9  | Itaru OSAKA       | RIKEN                                                                         | Significant Impact of Side Chain Composition on Backbone Orientation and Solar Cell Performances in Thiazolothiazole-Based Polymers                       |
| B-10 | Kazutoshi IJIMA   | Tokyo University of Science                                                   | Surface Modification of Titanium Substrates with Silane Coupling Agents for Adhesion with Polyimide Films                                                 |
| B-11 | Yu HOSHINO        | Kyushu University                                                             | Preparation of Temperature Responsive Nanogels with Carboxylic Acids which Undergo Large and Reversible $pK_a$ Shift                                      |
| B-11 | Zetian MI         | McGill University                                                             | High Efficiency Water Splitting Using InGaN Nanowire Photocatalysts and Photoelectrodes                                                                   |
| B-11 | Satoshi ARAI      | Waseda Bioscience Research Institute in Singapore (WABIOS), Waseda University | Fluorescent Sensors to Visualize Energy Status at the Microscopic Level                                                                                   |
| B-11 | Shinsuke ISHIHARA | National Institute for Materials Science (NIMS)                               | Development of Copper(II) Oxide Nanoarchitecture with Maximized {001} Facet for Catalytic Remediation of Nitrogen Monoxide at Low Temperature             |
| B-12 | Nobuhiro YANAI    | Kyushu University                                                             | Photon Upconversion in Self-Assembled Molecular Systems                                                                                                   |
| B-12 | Mitsuaki YAMAUCHI | Chiba University                                                              | Self-Assembly Pathways Guided by Photocyclized Product of Stilbene Dyad                                                                                   |
| C-1  | Xiaomin CUI       | Kyushu University                                                             | 2nd harmonic detection of nonlinear vortex oscillation under strong RF magnetic field based on the anisotropic magnetoresistance effect                   |
| C-1  | Yuma ONO          | Kyushu University                                                             | Spin dynamics in a Nb/Cu/NiFe tri-layered structure                                                                                                       |
| C-2  | Takahisa SUZUKI   | Nippon Steel & Sumitomo Metal Corporation                                     | Stability and transformation mechanism of retained austenite during tempering in high carbon martensitic steel                                            |
| C-3  | Kazuyuki HIRAMA   | NTT Basic Research Laboratories, NTT Corporation                              | Nitride/diamond heterostructure systems - from growth to devices -                                                                                        |
| C-3  | Hideaki YAMADA    | National Institute of Advanced Industrial Science and Technology (AIST)       | Current status of techniques to fabricate single-crystal diamond wafers                                                                                   |
| C-4  | Yousuke MUKAI     | Yokohama National University                                                  | Influence of the rare-earth oxide addition on growth of elongated grains in porous Si <sub>3</sub> N <sub>4</sub>                                         |

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| C-5  | Saburo OKAZAKI     | Kyushu University                                                                                    | A Unified Quantitative Evaluation of Small Shear-mode Fatigue Crack Threshold                                                                                                       |
| C-6  | Ichiro TANABE      | Kwansei Gakuin University                                                                            | Electronic state changes of metal modified TiO <sub>2</sub> modified with Au nanoparticles upon UV light irradiation studied by far-ultraviolet spectroscopy                        |
| C-7  | Takashi KAJIWARA   | Kyushu University                                                                                    | One-dimensional Si adatom induced nanoribbon formation on SiC surface during molecular beam epitaxy                                                                                 |
| C-8  | Kohei FUJIWARA     | Osaka University                                                                                     | 5d transition metal oxide IrO <sub>2</sub> as a material for spin-current detection                                                                                                 |
| C-8  | Helena TELLEZ      | Kyushu University                                                                                    | Blocking of electro-active surfaces in mixed ionic-electronic conductors studied by Low-Energy Ion Scattering (LEIS)                                                                |
| C-8  | Hiroimi TANAKA     | Yonago National College of Technology                                                                | New Process for Fabricating Intrinsic Josephson Junction using Hydrogen-Atmosphere Treatment                                                                                        |
| C-9  | Gracia KIM         | Kyushu University                                                                                    | Analysis of trapped fluxoids in FeSe <sub>0.5</sub> Te <sub>0.5</sub> epitaxial thin film deposited on a CaF <sub>2</sub> single crystalline substrate by scanning SQUID microscopy |
| C-10 | Shinya TSUKADA     | Shimane University                                                                                   | Ferroelectric Phase Transition Under an Electric Field in KF-BaTiO <sub>3</sub>                                                                                                     |
| C-10 | Shintaro UENO      | University of Yamanashi                                                                              | Fabrication of Barium Titanate / Metal Composite Capacitors via Wet Chemical Process and Their Dielectric Properties                                                                |
| C-11 | Kohei FUJIWARA     | Osaka University                                                                                     | Gate-induced nonvolatile changes in the transport properties of spinel ferrite thin films                                                                                           |
| C-11 | Dai-Ming TANG      | National Institute for Materials Science (NIMS), Chinese Academy of Sciences                         | <i>In Situ</i> TEM: An Nanolab for Growth, Manipulation, and Properties of Nanostructures                                                                                           |
| C-11 | Nuno SILVA         | University of Aveiro                                                                                 | Magnetism, structure and luminescence of functional nanobeads                                                                                                                       |
| D-1  | Makiko FUJII       | Kyoto University                                                                                     | Highly Accurate Biological Analysis using Ar-GCIB SIMS with Chemical Assist Ionization                                                                                              |
| D-2  | Masaya SHIGETA     | Osaka University                                                                                     | Fluid-dynamic simulation of growing nanoparticle transport in plasma synthesis                                                                                                      |
| D-2  | Bin XU             | Tohoku University                                                                                    | Synthesis of (6,5) enriched single-walled carbon nanotubes with parameter-controlled plasma CVD process                                                                             |
| D-2  | Hitoshi MUNEOKA    | The University of Tokyo                                                                              | Electric breakdown model for micrometer gap discharges in fluctuating fluids near the critical point                                                                                |
| D-3  | Hitoshi ONODERA    | Shinshu University                                                                                   | Flux-conversion of Garnet-type Li <sub>5</sub> La <sub>3</sub> Nb <sub>2</sub> O <sub>12</sub> Crystal Layer from Nb Thin Film on LiCoO <sub>2</sub> Sheet                          |
| D-3  | Yusuke MIZUNO      | Shinshu University                                                                                   | Electrochemical Characteristics of Flux Grown LiCoO <sub>2</sub> Crystal Layer as a Lithium-Ion Rechargeable Battery Cathode                                                        |
| D-3  | Motoyuki IJIMA     | Yokohama National University                                                                         | Alignment of surface functionalized SiO <sub>2</sub> nanoparticles on polyamide nanofibers                                                                                          |
| D-3  | Kazuya HORIGUCHI   | Gunma University                                                                                     | Hydrothermal growth of yttria-stabilized zirconia nanocrystals highly dispersed in aqueous medium                                                                                   |
| D-4  | Ina RIANASARI      | New York University Abu Dhabi                                                                        | Novel Fabrication of porous Inorganic Scaffold by Supercritical CO <sub>2</sub> Assisted Nebulization Technique                                                                     |
| D-4  | SHAHIRA KAMIS      | Tokyo Institute of Technology                                                                        | Tribological study of amorphous boron carbon nitride ( $\alpha$ -BCN:H) films                                                                                                       |
| D-5  | Joel MOLINA        | National Institute of Astrophysics                                                                   | Electrical Characteristics of Al/Al <sub>2</sub> O <sub>3</sub> /Al Stacked Structures Fabricated at 300°C on Glass.                                                                |
| D-5  | Shogo KONDO        | Osaka University                                                                                     | Electrical conduction characteristics of single crystal and directly-bonded Nb-doped SrTiO <sub>3</sub>                                                                             |
| D-6  | Shinnosuke HATTORI | Kumamoto University                                                                                  | Nonadiabatic simulation to study the photoexcited phase change in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub>                                                                   |
| D-7  | Junhyeok JANG      | Graduate School of Urban Environmental Science, Tokyo Metropolitan University                        | Micro CB ring alignment using meso-scale order structure of immiscible rubber blend                                                                                                 |
| D-7  | Yoshio HORIUCHI    | Materials & Surface Engineering Research Institute, Kanto Gakuin University, Kanto Gakuin University | Plated Metal Patterns on/in Resin Materials                                                                                                                                         |
| D-8  | Genki ISHIBASHI    | Yokohama National University                                                                         | Development of a microstereolithography system using an optical fiber                                                                                                               |
| D-9  | Seiya TAKAKI       | Kyushu University                                                                                    | Atomic Scale Study on Ion Tracks in Ceria Irradiated with 200 MeV Xe Ions                                                                                                           |
| D-10 | Naoki MORIMOTO     | Osaka University                                                                                     | X-ray Phase Contrast Imaging with a Single Grating Talbot-Lau Interferometer                                                                                                        |
| D-11 | Yuki MAKINOSE      | Tokyo Institute of Technology                                                                        | Nano-size Ceria synthesized by hydrothermal method using surfactants                                                                                                                |
| D-11 | Tomonori YAMATOH   | Yamaguchi University                                                                                 | Synthesis of Sodium Bismuth Titanate by Polymerizable Complex Method                                                                                                                |
| D-11 | Miki INADA         | Kyushu University                                                                                    | Synthesis and Capacitive Properties of Carbon Spheres by Hydrothermal Carbonization Process                                                                                         |
| D-12 | Kengo NISHIO       | National Institute of Advanced Industrial Science & Technology (AIST)                                | Universal Medium-Range Order of Amorphous Metal Oxides                                                                                                                              |
| D-12 | Ping-chun TSAI     | National Cheng Kung University                                                                       | Optimized Li <sub>4</sub> Me <sub>5</sub> O <sub>12</sub> defect spinel electrode materials for lithium ion batteries using <i>ab initio</i> calculations                           |
| D-13 | Mohammad ALAM      | Saga University                                                                                      | Fabrication of mesoporous hollow silica nanospheres by using core-shell-corona polymeric template and their electrochemical application                                             |
| D-13 | Keita KURODA       | University of Hyogo                                                                                  | Association behavior of pendant polydimethylsiloxane and phosphorylcholine groups containing biocompatible diblock copolymers                                                       |
| E-1  | Tetsuo UMEGAKI     | Nihon University                                                                                     | Influence of pH Condition in Immobilization of MolybdoSilicic acid on Hollow Silica Spheres for Hydrolytic Dehydrogenation of Ammonia Borane                                        |
| F-1  |                    |                                                                                                      | N/A                                                                                                                                                                                 |
| G-1  | Tomoki UCHIYAMA    | Kyushu University                                                                                    | Mechanochemical synthesis and characterization of Pd-containing La-Fe perovskites by Pd K- and L <sub>3</sub> -edge X-ray Absorption Spectroscopy                                   |