## LIST OF POSTERS

## Frontiers of Materials, Life & Earth Sciences and Beyond

## 13th Annual ISAJ Symposium

November 18, 2022 (Friday) Main Auditorium, Embassy of India, Tokyo, Japan

PS-1	PS-1 Hisay Lama, The University of Tokyo
	Glassy Phase in Dense Bacteria Population
PS-2	PS-2 Deeksha Arya, The University of Tokyo
	Multinational advancements for AI-driven road inspection
PS-3	PS-3 <b>Pooja Gusain,</b> Keio University
	Violet light modulates mood behavior via non-visual retinal opsin OPN5
PS-4	PS-4 Rahul Bhardwaj, Japan Advanced Institute of Science and Technology (JAIST)
	Nafion's Proton Transport in Cathode Catalyst Layer of Hydrogen Fuel Cell
PS-5	PS-5 Huang Tianwei, The University of Tokyo
	Modification of extracellular vesicles with oligopeptide for selective interaction with
	activated endothelium
	Thaviti Naidu Palleda, Tokyo Metropolitan University
PS-6	Influence of yttrium micro-addition on microstructure evolution and mechanical properties of
	IN718 fabricated by selective laser melting
PS-7	He Huifu, AIST-INDIA DAILAB & University of Tsukuba
15-7	Experimental evidence to the anti-migration activity of Cucurbitacin-B
	Shi Yang, AIST-INDIA DAILAB & University of Tsukuba
PS-8	A novel small molecule that inhibits proliferation and migration of cancer cells
PS-9	Huayue Zhang, AIST-INDIA DAILAB & University of Tsukuba
	In vitro experimental evidence to the anti-stress activity in a popular carotenoid fucoxanthin
PS-10	Nadiia Velychkivska, National Institute for Materials Science (NIMS)
	Multi-Responsive Star-Shaped Porphyrin-PNIPAM Conjugates
PS-11	Pietro Beretta Piccoli, Nihon University
	Environmental improvements from alternative gravel mounts in channelized rivers

	Soumyaranjan Ratha, Akita University
PS-12	Development of Multiferroic BiFeO3 based Thin Films with Excellent Magnetic Properties for
	Reduction of Energy Consumption in Magnetic Devices
PS-13	Yuya Sato, University of Tokyo
	Manipulation of liposome by spontaneous incorporation of cell-penetrating peptide
PS-14	Shaoji Liang, The University of Tokyo
	Microstructure evolution and mechanical properties of Ti-6Al-4Zr-4Nb alloys fabricated by
	Spark Plasma Sintering (SPS)
PS-15	S.Vadivel, Tokyo Institute of Technology
	Graphitic carbon nitride-based nanoplatforms for environmental applications: design
	strategies and applications
PS-16	Dennis Jodi, National Institute for Materials Science & Kyushu University
	Suppressed Dislocation Density in Single-Crystal Pure Ni Fabricated via Laser Powder Bed
	Fusion with a Flat-Top Laser Profile
PS-17	Han Hanlin, University of Tsukuba
	The Stability of Nanobubble Water at Different Temperatures during Long Time Preservation
PS-18	Sun Yixin, University of Tsukuba
	Effect of nanobubbles water on microenvironment to improve liver steatosis
	Silvia Pomes, National Institute for Materials Science (NIMS)
PS-19	Characterization of plasticity initiation phenomena in Zr-based bulk metallic glass via
	nanoindentation
	Gao Baoqi, University of Tsukuba
PS-20	Dewatering performance of digested sludge by layered double hydroxides (LDHs) conditioning
	and its phosphorus recovery potential assessment
DC 01	Zhang Weixu, University of Tsukuba
PS-21	The Physical Features and Stability of Nanobubble Waters in Continuous Observations
D.C. 00	Srinithi. A. K, National Institute for Materials Science (NIMS) & University of Tsukuba
PS-22	Microstructure Engineering Towards the Development of SmFe12-based Permanent Magnets
	Kunal Kumar, The University of Tokyo
PS-23	Unraveling how the emission and Raman spectra of [Au(SCN)2]- dimeric and trimeric
	moieties are affected by aurophillic interaction
	Liu Fei, University of Tsukuba
PS-24	A study of changes in parents educational psychology caused by changes in educational
	policies in China and Japan
PS-25	Santra Dines Chandra, National Institute for Materials Science (NIMS)
	Promising Metallo-supramolecular Electrochromic Materials and Devices for Future Smart
	Window

PS-26	Afshan Begum, National Institute for Materials Science (NIMS) Observation of Isotropic Photonic Double Dirac Cones by High Angle-Resolution Reflection
	Spectroscopy at the Mid-Infrared Frequencies
PS-27	Vanshita Sharma, Toyama Prefectural University
	Construction of in vivo system for predicting human CYP24A1-dependent metabolism
PS-28	V N Ramakrishnan, Vellore Institute of Technology
	Analog/RF Performance Analysis of GaSb-InP Vertical Tunnel Field Effect Transistors
PS-29	Atanu Panda, National Institute for Materials Science (NIMS)
	Phosphorus-decorated Mo-MXene/CQD hybrid: a 2D/0D architecture for bifunctional
	electrochemical water splitting
PS-30	Barun Kumar Barman, National Institute for Materials Science (NIMS)
	Chromaticity Tunable White-Light-Emitting Carbon Dots via N-Dopant Site Formulation
PS-31	Manoj Talluri, IIT Hyderabad & National Institute for Materials Science (NIMS)
	Giant Spin Pumping at Ferromagnet (Permalloy) - Organic Semiconductor (Perylene diimide)
	Interface
	Sagar Saren, Kyushu University
PS-32	Effect of Pore Size Distribution on Carbon Dioxide Adsorption in Activated Carbon: A Grand
	Canonical Monte Carlo Simulation Study
PS-33	Satoko Kise, Toyama Prefectural University
10-55	The possibility of the gene therapy for rickets type II alopecia using adenovirus vector
	Bageshree K, Tokyo Institute of Technology
PS-34	Drought Impact Assessment Using Multivariate Drought Index and Relation with
	Socioeconomic Security of Farmers
	Volkan Kilinc, National Institute for Materials Science (NIMS)
PS-35	Low concentrated ions detection in complex medium with high ionic strength: example of
	cesium detection in seawater.
	Vikas Nandal, National Institute of Advanced Industrial Science and Technology (AIST)
PS-36	Unveiling charge carrier distribution in Al doped SrTiO 3 photocatalyst with quantum
	efficiency of unity
PS-37	Ravi Gautam, National Institute for Materials Science (NIMS)
	Nanocrystalline Soft Magnetic Material for Automotive Applications
	Hemam Rachna Devi, National Institute for Materials Science (NIMS)
PS-38	Rational design of two-dimensional multi-metallic based nanostructures for efficient water
	oxidation
PS-39	Megha Sharma, Heriot-Watt University
	How Emotions Improve Music Generation

PS-40	<b>Rajalakshmi Balasubramanian,</b> Tokyo Institute of Technology Characterization of The Sulfide-Responsive Transcriptional Factor YgaV In Escherichia coli.
PS-41	Yoko Yamagami, Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Sea level variability along the western coast of India simulated in a high-resolution ocean genral circulation model
PS-42	<b>Yuji Ishida,</b> The University of Tokyo The effect of $\beta/\alpha$ strength ratio and volume fraction of $\beta$ for fatigue properties of Ti-alloys
PS-43	Samrat Mukherjee, Tokyo University of Agriculture and Technology & National Institute of Advanced Industrial Science and Technology (AIST) <i>Functional Analysis of Chloride Ion Channel Clic1 in Cancer Invasion</i>
PS-44	<b>Alisha Yadav,</b> Kyoto University Potassium-based Dual Carbon Battery using Pure Ionic Liquid Electrolyte
PS-45	Nazrul Hisham Nazaruddin, Tokyo University of Agriculture and Technology & National Institute of Advanced Industrial Science and Technology (AIST) Stiffness Analysis via Atomic Force Microscopy for Microneedle Arrays-Assisted Direct Delivery of Genome Editing Machinery in Rice
PS-46	Seema Choudhury, High Energy Accelerator Research Organization (KEK) Physics from Belle II experiment, status and prospects