

BRIDGING NATURE AND TECHNOLOGY
8th Annual ISAJ Symposium
December 6th, 2017 (Wednesday)

Time	PROGRAM	
8:00 – 9:00	Registration of participants	
9:00 – 10:00	Inaugural Session	
9:00	Welcome Address	Sunil Kaul, Chairman, ISAJ
9:05	Inaugural Address	Sneha, Symposium Convener
9:15	Special Address	Purnima Rupal S & T Counsellor, Embassy of India “Transforming India through Science, Technology & Innovation”
9:35	Keynote Address	Toshihiko Koseki Executive Vice President, University of Tokyo “Materials Integration System for Developing Advanced Materials”
9:55	Vote of Thanks	Alok Singh, Vice Chairman, ISAJ
10:00–10:15	COFFEE BREAK	
10:15–12:00	Session – I, Invited talks	
10:15	Toshiji Mukai Kobe University	“Material Design of Magnesium Alloy for Biodegradable Implant”
10:35	Manish Biyani Japan Advanced Institute of Science and Technology (JAIST)	“Electrospray for Man-made Cell-like Compartments”
10:55	Horacio Cabral University of Tokyo	“Cooperative Fusion of Imaging and Therapy through Theranostic Nanomedicines”
11:15	Renu Wadhwa National Institute of Advanced Industrial Science & Technology (AIST)	“Ashwagandha Leaves: Bioactives, Biology and Biotechnology”
11:35	Shrihari Chandraghatgi (Special talk) EcoCycle Corporation	“Status of groundwater contamination due to industrial and agricultural activities in India and its impact on health and economy”
12:00–12:30	LUNCH BREAK	
12:30–13:20	POSTER SESSION-I	
13:20–14:40	Session – II, Invited talks and young scientists talks	
13:20	Takahiro Sawaguchi National Institute for Materials Science (NIMS)	“A novel long-lived seismic damping alloy for safe and secure society”
13:40	Naokazu Kano University of Tokyo	“Creation of a Chemical Bond between Penta coordinated Group 14 Elements”

14:00	Rajkumar S Kalra National Institute of Advanced Industrial Science & Technology (AIST)	“CARF Enrichment Promotes Epithelial- Mesenchymal Transition Through Activation of Wnt/-Catenin Signalling: Clinical Relevance and Mechanism of Action”
14:10	Somesh Kumar Bhattacharya National Institute for Materials Science (NIMS)	“Ab initio study of the oxidation resistance of Ti surfaces at elevated temperature”
14:20	Takehiro Kamiya University of Tokyo	“Tonome screening of EMS-mutagenized Rice”
14:30	Mitsuhiro Nemoto (Special talk) Japan Science and Technology Agency (JST)	“Sakura Science Plan (SSP)”
14:40–15:30	COFFEE BREAK & POSTER SESSION-II	
15:30–16:30	Session – III, Invited talks	
15:30	Yoshiaki Onishi National Institute of Advanced Industrial Science & Technology (AIST)	“Circadian Rhythm: Under the Control of Surya”
15:50	Masayuki Takigawa JAMSTEC	“The impact of biomass burning and urban emissions on the air quality in India and other Asian countries”
16:10	Kou Okuro University of Tokyo	“Stimuli-responsive Molecular Glues for Modulation of Biomolecular Functions”
16:30–17:00	Session – IV, Poster talks (5 min each)	
16:30	Sunil kumar Hokkaido University	“Photocontrol of Motor Protein Function”
16:35	Ruzic Jovana National Institute for Materials Science (NIMS)	“Effect of Mo Segregation on Mechanical Properties of TiMo Alloy Studied by Nanoindentation”
16:40	Sajal Afzal University of Tsukuba	Black Cumin Seed Oil-in- Water Nanoemulsions - Preparation by High pressure homogenization & Evaluation of Stability
16:45	Ankita Kushwaha Japan Advanced Institute of Science and Technology (JAIST)	“Creation of smarter aptameric reagents for the global antigenic diversity of influenza viruses”
16:50	Subramani Thiyagu National Institute for Materials Science (NIMS)	High efficiency silicon hybrid solar cells via energy management by employing nanocrystalline Si quantum dots and Si nanoholes
16:55	Hubiao Huang University of Tokyo	Topological Defect-Mediated Kinetic Growth of Crystalline MOFs with Anomalous Morphological Complexity
17:00–17:15	CLOSING SESSION, POSTER AWARD AND BREAK FOR DINNER	

List of poster presentations

No.	Name of presenter	University/Institute	Presentation Title
P1	Sunil Kumar K R	The University of Tokyo	Photocontrol of Motor Protein Function
P2	Ruzic Jovana	National Institute for Materials Science (NIMS)	Effect of Mo Segregation on Mechanical Properties of TiMo Alloy Studied by Nanoindentation
P3	Sajal Afzal	Food Research Institute, Tsukuba, Univ. of Tsukuba	Black Cumin Seed Oil-in-Water Nanoemulsions - Preparation by High pressure homogenization & Evaluation of Stability
P4	Ankita Kushwaha	Japan Advanced Institute of Science and Technology	Creation of smarter aptameric reagents for the global antigenic diversity of influenza viruses
P5	Subramani Thiyagu	National Institute for Materials Science (NIMS)	High efficiency silicon hybrid solar cells via energy management by employing nanocrystalline Si quantum dots and Si nanoholes
P6	Hubiao Huang	The University of Tokyo	Topological Defect-Mediated Kinetic Growth of Crystalline MOFs with Anomalous Morphological Complexity
P7	Prakhar Misra	The University of Tokyo	Land-use urban morphology identification using digital surface model over Indian cities
P8	Shreya Thusoo	Tokyo Institute of Technology	Numerical Study on Seismic Structural Performance of Hollow Steel-Encased Concrete Piles
P9	Kunal Kumar	University of Tokyo	Tuning of Multicolored Emission and Slow Magnetic Relaxation in Trimetallic EuxTb1-x[Co(CN)6] Coordination Polymers
P10	Gaddam Pruthvi Raj	University of Tokyo	Behaviour of Clay Brick Masonry with Soft Brick under Uniaxial Compression
P11	Tomohiro Kuroda	The University of Tokyo	Development of post-translational acyl transfer reaction toward in vitro synthesis of peptides with carbon-backbone
P12	Gayatri Chawda	Tokyo Institute of Technology	Content Analysis of EIA reports in India
P13	Mohamed Reda Batran	University of Tokyo	People Flow and Spatio-Temporal Density Representation in Maputo, the Capital of Mozambique
P14	Parijat Borah	The University of Tokyo	Development of Solid Base Catalyzed Stereoselective 1,4-Addition Reactions in the Batch and Flow System
P15	Farhan Mudasar	The University of Tokyo	Enhanced figure of merit in low thermal conductivity strontium silicide (Sr ₂ Si) by spark plasma sintering technique
P16	Shinde Harshraj	The University of Tokyo, Japan	Elucidation of relative drought responsiveness in pearl millet using RNA-Sequencing approach
P17	Nehpreet Kaur Walia	University of Tokyo	Investigation of Slow-mode shocks in Earth's Magnetopause with Magnetospheric Multiscale Mission
P18	Fazalurahman Kuttassery	Tokyo Metropolitan University	Artificial photosynthesis catalyzed by earth-abundant metalloporphyrins
P19	Damini sharma	National Institute of Advanced Industrial Science	Molecular Mechanism of Anti-Cancer Properties in Fucoxanthin

		& Technology (AIST), Univ. of Tsukuba	
P20	He Huifu	National Institute of Advanced Industrial Science & Technology (AIST)	Bioassays for Activities in The Grape Seed Extract: A Preliminary Study
P21	Jayarani Putri	National Institute of Advanced Industrial Science & Technology (AIST)	Demethylation Drug 5'-Aza-2'-deoxycytidine Works Through Multi-pathway: Bioinformatics and Experimental Evidence
P22	Priyanshu Bhargava	National Institute of Advanced Industrial Science & Technology (AIST), Univ. of Tsukuba	Honey Propolis for Cancer Treatment: Bioinformatics and Experimental Evidence to Mechanism of Action of Active
P23	Amr Omar	National Institute of Advanced Industrial Science & Technology (AIST), Univ. of Tsukuba	Establishment of CARF As a Stress Response Protein
P24	Sukant Garg	National Institute of Advanced Industrial Science & Technology (AIST), University of Tsukuba	Anti-Stress Potentials of Tamarind Seeds: A Preliminary Study
P25	Wang Jia	National Institute of Advanced Industrial Science & Technology (AIST), Univ. of Tsukuba	Skin Pigmentation is a Stress Response
P26	Anupama Chaudhary	National Institute of Advanced Industrial Science & Technology (AIST)	A Withaferin-A Derivative with Non-toxic and Anti-Stress Potentials: Molecular Evidence and Significance
P27	Jian Qiang	National Institute for Materials Science (NIMS), University of Tsukuba	Concurrent solid-state amorphization and structural rejuvenation in Zr-Cu- Al alloy by high-pressure torsion
P28	K. Venkata Rao	RIKEN, Wako	Thermally bisignate supramolecular polymerization
P29	Dudekula Althaf Basha	National Institute for Materials Science (NIMS)	Deformation induced interfacial segregation of zinc in Mg-Zn-Y alloy
P30	Ata Abbas	Nanyang Technological University, Singapore	Allenamides as orthogonal handles for selective modification of cysteine
P31	Anirban Akhand	Port and Airport Research Institute	CO ₂ flux estimation from Indian Sundarban: Technology and advancement
P32	Hasna Puthen Peediyakkal	Tokyo Metropolitan University	Pt- free Catalysts for Next Generation Proton Exchange Membrane Fuel Cells
P33	Ryo Kato	Tokyo University of Science	Magnetic properties and structure of high coercivity Sm-Co magnets
P34	J Kida	Tokyo University of Science	Magnetic properties of melt-spun Sm-(Co,Fe) ribbons
P35	Rahul Kumar	Tokyo Institute of Technology	Moving Beyond the Nature with Metamaterials
P36	Kiyoshi Morishita	University of Tokyo	Nucleotide Coordination With 14 Lanthanides Studied By Isothermal Titration Calorimetry
P37	Sahil Bansal	Tokyo Institute of Technology	Future of AI and Cyborgs