



ICNM6
INTERNATIONAL CONFERENCE ON
NANOSPACE MATERIALS 2025

6th International Conference on Nanospace Materials

Scientific Program



JULY AUGUST
29th - 1st , 2025



THE SAIHOKUKAN HOTEL
Nagano City, JAPAN

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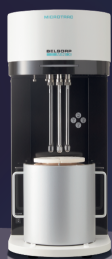
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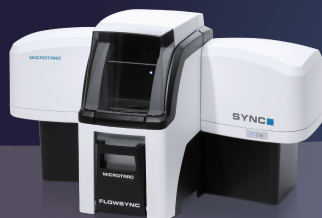
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No.	Start	Fin.	Title	Presenters	Affiliation
July 29, 2025					
	16:45	18:45	Reception		
	17:00	19:00	Welcome mixer		
July 30, 2025					
	8:00	9:00	Reception		
Room A					
2A01	9:00	9:15	Welcome message	*Tomohiko Okada	Shinshu University (Japan)
	9:15	9:30	Time Adjustment		
Room A Chair: Masashi Morita (Tokyo University of Agriculture and Technology)					
2A02	9:30	9:50	[Invited] Effects of colloidal clay particles on the spectroscopic behavior of non-adsorbing dyes dissolved in the colloids	*Teruyuki Nakato, Rio Sonoyama, Yuhi Tanigawa, Emiko Mouri, Yuichi Momoi	Kyushu Institute of Technology (Japan), Toyo Corporation (Japan)
2A03	9:50	10:10	[Invited] Size dependent energy transfer from perovskite nanocrystal to surface cyanine dye	*Tetsuo Yamaguchi, Sadahiro Masuo	Kwansei Gakuin University (Japan)
2A04	10:10	10:30	μ -Nitrido-bridged iron phthalocyanine dimer deposited on carbon surface acts as efficient oxidation catalyst for persistent organic compounds	*Yasuyuki Yamada, Kentaro Tanaka	Nagoya University, Research Center for Materials Science (Japan), Nagoya Univ
	10:30	10:50	Coffee Break		
Chair: Tetsuo Yamaguchi (Kwansei Gakuin Univ)					
2A05	10:50	11:10	[Invited] An emerging opportunity to design a molecularly ordered structure of aromatic group around cylindrical mesopore	*Tatsuo Kimura	National Institute of Advanced Industrial Science and Technology, AIST (Japan)
2A06	11:10	11:30	Development and Characterization of ZIF-67 Synthesized from a Novel Cobalt Glycerate Complex as Precursor: A Preliminary Study	*Angel Mae Arcamo, Bryan Alamani, Kun-Yi (Andrew) Lin	University of the Philippines - Diliman (Philippines), National Chung Hsing University
2A07	11:30	11:50	Optimizing Air Filtration: A Study on Hydrothermally-Derived Analime Adsorbents and the Influence of Internal Packing Structures	*Xyrlil Dan Culiq Manuel, Bryan G. Alamani	University of the Philippines Diliman (Philippines)
	11:50	14:00	Lunch Break		
Room B ERATO Special Lectures					
Chair: Tokihiko Yokoshima (Nagoya Univ), Miharuru Eguchi (Waseda Univ)					
2B01	9:30	9:50	[Invited] Mesoporous Matter 2.0	*Yusuke Yamauchi	Nagoya University, The University of Queensland (Japan)
2B02	9:50	10:10	[Invited] Water-Soluble Templates for Formation of Porous Organic Polymers	*Yusuke Asakura	Nagoya University (Japan)
2B03	10:10	10:30	[Invited] Self-Assembled Porous Structures for Advanced Applications	*Jonathan Hill	NIMS (Japan)
	10:30	10:50	Coffee Break		
Chair: Azhar Alowasheer (Nagoya Univ), Yusuke Asakura (Nagoya Univ)					
2B04	10:50	11:10	[Invited] Concentrating Light and Chlorinated Aromatic Hydrocarbons on Hyperuniform Mesoporous Gold Films for Selective SERS Sensing	*Joel Henzie	NIMS (Japan)
2B05	11:10	11:30	[Invited] Molecule A'on Two-Dimensional Inorganic Surface	*Miharuru Eguchi	Waseda University (Japan)
2B06	11:30	11:50	[Invited] Single-Site Heterogeneous Catalysis Using Periodic Mesoporous Organosilica as a Solid Support	*Shinji Inagaki	Nagoya University (Japan)
2B07	11:50	12:10	[Invited] Manipulation of Molecular Science at Liquid Interfaces	*Katsuhiko Ariga	NIMS, The University of Tokyo (Japan)
	12:10	14:00	ERATO personal meeting (Room B)		
Room A Chair: Kenji Okada (Osaka Metropolitan Univ)					
2A09	14:00	14:20	[Invited] Hierarchical NiFe LDH Architectures Derived from Iron MOFs: In-Situ Generation for Enhanced Adsorption and Catalytic Properties	*Vanessa PREVOT, Claude FORANO, Mengwei LI	Clermont Auvergne University CNRS (France), School of Resource and Environm
2A10	14:20	14:40	[Invited] In-situ XRD observation of the structural change process of layered double hydroxides during heating	Kohei Makishima, *Chikako Moriyoshi	Hiroshima University (Japan)
2A11	14:40	15:00	[Invited] Iron-Based LDH Drug Carriers: Comprehensive Structural and Compositional Analysis Considering Crystalline and Amorphous Contributions	*Christine TAVIOT-GUEHO	University of Clermont Ferrand, FRANCE (France)
2A12	15:00	15:20	[Invited] Insight into the formation and structure of mixed-valence CoMn Layered Double Hydroxides - Application to the design of H ₂ O ₂ sensor and GOx bioelectrode.	*Claude FORANO, Hani FARHAT, Christine Taviot-Gueho, Christine MOUSTY, Anthony Beauvois, Stéphanie Belin, Valerie Briois	University Clermont Auvergne (France), Synchrotron SOLEIL, CNRS-UR1 (France)
2A13	15:20	15:40	[Invited] Solvation-Layering-Assisted Formation of Highly Concentrated Colloidal Sub-10-nm-Diameter Nanoparticles	*Yasuaki Tokudome	Osaka Metropolitan University (Japan)
	15:40	15:55	Coffee Break		
Room B Chair: Naoki Tarutani (Hiroshima Univ)					
2B08	14:00	14:20	[Invited] Molecular design for advanced organic-inorganic hybrid aerogels with improved mechanical resilience	*Kazuki Nakanishi	Nagoya University (Japan), Kyoto University (Japan)
2B09	14:20	14:40	[Invited] Anion-Selective Mechanism of Layered Double Hydroxide and Its Prediction	*Ryo Sasai	Shimane University (Japan)
2B10	14:40	15:00	Anisotropic columnar crystals of brucite-type layered metal hydroxides with exposed edges	*Keisuke Muramatsu, Akira Watanabe, Wataru Sugimoto	Shinshu University (Japan)
2B11	15:00	15:20	[Invited] Fabrication of muscle-like hierarchical and anisotropic structures by assembling monodisperse nanosheets	*Nobuyoshi Miyamoto, Hiroyuki Nonaka, Hiroyuki Iwano, Yuh Ide	Fukuoka Institute of Technology (Japan)
2B12	15:20	15:40	[Invited] Lattice engineered layered double hydroxide for radio-imaging or magnetic resonance imaging property	*Jae-Min OH	Dongguk University (Korea)
	15:40	15:55	Coffee Break		
Room B Chair: Toshio Sakai (Shinshu Univ)					
2B13	15:55	16:20	[Keynote] Sulfur Tuned Advanced Carbons: Towards subtle modifications of sulfur lining	*Teresa J Bandoz, Paola Pauletto	The City College of New York/CNY (United States of America)
2B14	16:20	16:45	[Keynote] Does the Snow Queen Like Black? Nanocarbon-Reinforced THV-Based Anti-Icing Sponges	*Artur Piotr Terzyk	N. Copernicus University (Poland)
Chair: Jae-Min Oh (Dongguk Univ)					
2B15	16:50	17:15	[Keynote] Spatial distribution of interaction forces visualized by three-dimensional scanning atomic force microscopy	*Hitoshi Asakawa	Kanazawa University (Japan)
2B16	17:15	17:40	[Keynote] Advancing Bioinspired and Low Dimensional Composite Materials Through High-Accuracy Simulations	*Hendrik Heinz	University of Colorado-Boulder (United States of America)
	17:40	17:55	Photo		
	18:00	19:45	Banquet		

July 31, 2025						
No.	Start	Fin.				
			Title	Presenters	Affiliation	
Room A&B						
Chair: Tomohiko Okada (Shinshu Univ)						
3S01	9:15	9:45	[Plenary] Materials Energy Science on Carbon Nanostructures	*Katsumi Kaneko	Shinshu University (Japan)	
3S02	9:45	10:10	[Keynote] Size and surface design of titania nanoparticles	*Makoto Ogawa	VISTEC and Shinshu University (Japan)	
	10:10	10:30	Coffee Break			
Chair: Makoto Ogawa (VISTEC and Shinshu Univ)						
3S03	10:30	10:55	[Keynote] Gels and Aerogels from Cellulose Nanocrystals: From Photonics to Supramolecular Chemistry	*Mark MacLachlan	University of British Columbia (Canada)	
3S04	10:55	11:20	[Keynote] Copper Nanoparticle Systems for Low Temperature Sintering	*Tetsu Yonezawa	Hokkaido University (Japan)	
3S05	11:20	11:45	[Keynote] Liquid marble stabilized with millimeter-sized particles	*Syuji Fujii	Osaka Institute of Technology (Japan)	
	11:50	16:50	Excursion/Togakushi including Lunch in Yamaguchiya			
	11:50	16:50	Excursion/Zenkoji after Lunch Break in SAIHOKUKAN			
	11:50	16:50	Free Time/after Lunch Break in SAIHOKUKAN			
	17:00	19:00	Poster session (@Ball room)			

Poster Session (July 31, 2025)

No.	Start	Fin.	Title	Presenters	Affiliation
3P01	17:00	18:00	Anisotropically Swollen Clay–Polymer Hydrogel Sheet with Self-Healing Characteristic Prepared through Evaporation-Induced Cross-linking	*Siriluck Puey Thongsamakphan , Lisa Goulvestre, Ploypailin Milin Saengdet, Makoto Ogawa	Vistec (Thailand), Bordeaux INP (France)
3P02	17:00	18:00	Electrospun Nanofiber Assisted Calcium Oxalate Crystallization: Probing Interactions and Mechanisms	*John Derek Angeles Ganub , Bryan Gencianeo Alamani	University of the Philippines - Diliman (Philippines)
3P03	17:00	18:00	Influence of Inorganic Anions and Natural Organic Matter on the Oxidative Dissolution of 1T and 2H MoS ₂ Nanosheets	*Rojane Dragon , Bryan Alamani, Chia-ying Chen	University of the Philippines - Diliman (Philippines), National Chung Hsing University (Taiwan)
3P04	17:00	18:00	Biomimetic Orientation Control of Carboxylated-Porphyrins on Apatite Nanoparticles	*Daichi Noda , Wanyu Shi, Motohiro Tagaya	Nagaoka University of Technology (Japan), Research Fellow of the Japan Society for the Promotion of Science (DC) (Japan)
3P05	17:00	18:00	Unveiling the heteroepitaxial growth mechanism of metal-organic frameworks on copper hydroxide by atomic force microscopy	*Okai Saito , Kenji Okada, Arisa Fukatsu, Masahide Takahashi	Osaka Metropolitan University (Japan)
3P06	17:00	18:00	Mechanical Characterization of Metal Ion-Crosslinked Hydrogels Based on Biomass DNA	*Ibuki Yasui , Arisa Fukatsu, Kenji Okada, Masahide Takahashi	Osaka Metropolitan University (Japan)
3P07	17:00	18:00	Solvato/Vapochromism-Based Alcohol Sensors using Metal-Organic Framework Thin Films with Coordinatively Unsaturated Metal Sites	*Yuto Toki , Kenji Okada, Arisa Fukatsu, Yuta Tsuji, Masahide Takahashi	Osaka Metropolitan University (Japan), Kyushu University (Japan)
3P08	17:00	18:00	Visible-Light-Driven Photodecomposition of PFOS by π -Conjugated Organic Molecular Aggregates	*Shuhei Kanao , Munehiro HASEGAWA, Katsuyuki MORII, Yoichi KOBAYASHI	Ritsumeikan Univ. (Japan), Nippon Shokubai Co., Ltd. (Japan), Osaka Univ. (Japan), Chiba Univ. (Japan)
3P09	17:00	18:00	Photochromic Phenoxy-Imidazoly Radical Complex via Homolytic C–O Bond Cleavage	*Daisuke Tanaka , Shunsuke Kobashi, Hiroaki Yamashita, Yuki Nagai, Jiro Abe, Yoichi Kobayashi	Ritsumeikan University (Japan), Aoyama Gakuin University (Japan), PRESTO JST (Japan)
3P10	17:00	18:00	Photoinduced Desorption of π -Conjugated Organic Ligands in Zinc Sulfide Nanorods	*Waka Matsuo , Yuki Nagai, Yoichi Kobayashi	Ritsumeikan University (Japan), PRESTO JST (Japan)
3P11	17:00	18:00	Effect of Calcination and Reconstruction Conditions on Reconstruction Behavior of Layered Double Hydroxide consisting of Ni and Al.	*Kensuke Sakura , Takuya Fujimura, Kohei Makishima, Chikako Moriyoshi, Shogo Kawaguchi, Ryo Sasai	Shimane Univ. (Japan), Hiroshima Univ. (Japan), JASRI (Japan)
3P12	17:00	18:00	Preparation of Rhodamine 3B/C12TMA/Layered α -Zirconium Phosphate Hybrid Transparent Films and Their Phenol Response	*Masahiro Mifune , Takuya Fujimura, Ryo Sasai	Shimane University (Japan)
3P13	17:00	18:00	Synthesis of Eu ³⁺ -Doped Layered Double Hydroxide with Nitrate Detection Ability	*Zoha fatima fatima	Shimane University (Japan)
3P14	17:00	18:00	Recovery of noble metal ions in water by water-insoluble plastic beads	Virin Kittithammavong, Takahisa Watanabe, Masamune Tokuda, *Toshio Sakai	Naresuan University (Thailand), Shinshu University (Japan)
3P15	17:00	18:00	Recovery and upcycling of noble metal ions in wastewater by combining SoRed method and activated carbon filter	*Momoki Ino , Toshio Sakai	Shinshu University (Japan)
3P16	17:00	18:00	Functionalization of resins by ReRIMEm method	*Tadashi Kawasaka , Toshio Sakai	Shinshu University (Japan)
3P17	17:00	18:00	Synthesis of macroporous calcium hydroxide salt xerogels in the presence of malonic acid through an epoxide-mediated alkalization reaction	*Ryota Kobayashi , Atushi Nakahira, Yasuaki Tokudome	Osaka Metropolitan University (Japan)
3P18	17:00	18:00	Synthesis of aluminate porous microbeads through emulsion method from concentrated colloidal dispersions	*Shogo Kuroda , Koji Ohno, Atushi Nakahira, Yasuaki Tokudome	Osaka Metropolitan University (Japan)
3P19	17:00	18:00	Fabrication of a quasi-single-crystalline film of metal-organic framework (MOF) on a single crystal of a Cu-based mineral	*Yuka Koseki , Kenji Okada, Arisa Fukatsu, Masahide Takahashi	Osaka Metropolitan University (Japan)
3P20	17:00	18:00	Thermal transport properties of pillar-layered metal-organic frameworks impregnated with linear alkanes	*Hayato Kawahara , Kenji Okada, Arisa Fukatsu, Masahide Takahashi	Osaka Metropolitan University (Japan)
3P21	17:00	18:00	Intercalation Mechanism and Structural Dynamics of Ca–Doped δ -MnO ₂	*Annisa Puji Lestari , Hai Pham, Mai Thanh Nguyen, Tetsu Yonezawa	Hokkaido University (Japan)
3P22	17:00	18:00	Silica photodeposition in titania nanosheet interlayers and its application to gas barrier materials	*Toshikazu Hayashi , Koharu Yagawa, Yosuke Kageshima, Katsuya Teshima, Hiromasa Nishikiori	Shinshu University (Japan)
3P23	17:00	18:00	Effect of NO _x gas on CO ₂ capture by an Elastic Layer-structured MOF (ELM-11)	*XIAO LUO	Chiba University (Japan)
3P24	17:00	18:00	Heterolayered Assembly of Binary LDH Nanosheets into a Multi-component Superstructure	*Serim Oh , Jae-Min Oh	Dongguk University (Korea)
3P25	17:00	18:00	Adsorption of oleic acid on a quaternary long-chain alkylammonium modified smectite	*Ryoto Kobayashi , Tomohiko Okada	Shinshu University (Japan)
3P26	17:00	18:00	Low temperature dehydrochlorination of poly (vinyl chloride) using zinc (II) stearate	*Shion Nakamura , Tomohiko Okada	Shinshu University (Japan)

No.	Start	Fin.	Title	Presenters	Affiliation
3P27	18:00	19:00	Plasma modification of single walled carbon nanohorns by using different gases	*Artur P. Terzyk	Nicolaus Copernicus University (Poland)
3P28	18:00	19:00	High-Entropy Alloy Nanoparticle Catalysts Synthesized by Flash Lamp Annealing for Ethanol Oxidation Reaction	*Peng Zhou , Mai Thanh Nguyen, Tetsu Yonezawa	Hokkaido University (Japan)
3P29	18:00	19:00	Design of Catalytically Active MnOx Species for Ammoxidation Reaction by Heat Treatment of Mn–Al Layered Double Hydroxide	*Shiori Arai , Takayoshi Hara, Nobuyuki Ichikuni	Chiba University (Japan)
3P30	18:00	19:00	Insight into Structural Change of Ni(II)-Al(III) Layered Double Hydroxide under Heat Treatment: Design of NiO-Al ₂ O ₃ Nanocomposite Catalysts toward Hydrogen Transfer Reaction of Furfural	*Tsumumi Kato , Takayoshi Hara, Nobuyuki Ichikuni	Chiba University (Japan)
3P31	18:00	19:00	Design of Various Anions-intercalated Layered Ytterbium Hydroxide as a Solid Base Catalyst for the Knoevenagel Reaction in Water	*Yuko Kinoshita , Takayoshi Hara, Nobuyuki Ichikuni	Chiba University (Japan)
3P32	18:00	19:00	Surface modification of Polyester Textiles with Clay Nanosheets for Adsorption of Waste Models	*Mitsutaka Watanabe , Hisanao Usami, Moto Suzuki	Shinshu University (Japan)
3P33	18:00	19:00	Heterostructure of MoTi-MXene and ZnCr LDH hybrid obtained by in-situ crystal growth of LDH on MXene for potential photocatalyst	*Farhan Hadi , Jae-Min Oh	Dongguk University (Korea)
3P34	18:00	19:00	Particle morphology controlled Ni-Co hydroxide synthesized via sol-gel method for efficient and stable oxygen evolution reaction	*Jaeseong Kim , Jae-Min Oh	Dongguk University (Korea)
3P35	18:00	19:00	Stabilisation of iron-oxo dimers in a natural layered clay for efficient photocatalysts comparable to TiO ₂	*Hamza ElHosainy El-Hosainy , Ezz-Elregal Ezz-Elregal, Shinichiro Takano, Yusuke Ide, Tomohiko Okada	National Institute for Materials Science (Japan), Kafrelsheikh University (Egypt), Yokohama National University (Japan), Shinshu University (Japan)
3P36	18:00	19:00	Stabilization of molecular TiO ₄ species on the pore surface of mesoporous silica and its photocatalytic properties	*Masashi Morita , Hikaru Inada, Kazuyuki Maeda	Tokyo University of Agriculture and Technology (Japan)
3P37	18:00	19:00	Fabrication of porous complex oxide objects by 3D printing and the thermal conversion of metal hydroxide acrylate nanoparticles.	*Yudai Inada , Naoki Tarutani, Miki Asanome, Sota Shimizu, Yasuaki Tokudome, Hiroki Yamada Toshiaki Ina, Seiya Shimono, Kiyofumi Katagiri, Kei Inumaru	Hiroshima University (Japan), Osaka Metropolitan University (Japan), Japan Synchrotron Radiation Research Institute (Japan)
3P38	18:00	19:00	Investigation of dispersion behavior of Ni-Al LDH nanoparticles in solvents	*Takuya Mori , Yosuke Ando, Shin-ichi Takeda, Ai Takabatake, Naoki Tarutani, Atsushi Nakahira, Yasuaki Tokudome	Osaka Metropolitan University (Japan), Takeda Colloid Techno Consulting (Japan), MS Scientific. (Japan), Hiroshima University (Japan)
3P39	18:00	19:00	Investigation of liquid-phase synthesis conditions toward morphology control of nickel hydroxide salt nanoparticles	*Keiichiro Tsujimoto , Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru	Hiroshima University (Japan)
3P40	18:00	19:00	Thermal conversion of nickel hydroxide acrylate nanoparticles immobilized on TiO ₂ for photocatalytic H ₂ production.	*Rei Nitomakida , Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru, Sayako Inoue, Hiroki Yamada, Toshiaki Ina	Hiroshima University (Japan), Ehime University (Japan), Japan Synchrotron Radiation Research Institute (Japan)
3P41	18:00	19:00	Investigation of the Unique Co-catalytic Function of AlB ₂ in Photocatalytic Overall Water Splitting	*Ryuichi Yamaguchi , Atsushi Anzai, Shoma Matsubara, Shota Tsunewaki, Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru	Hiroshima University (Japan)
3P42	18:00	19:00	Nanoparticle Monolayer Films of Metal Hydroxide Acrylates toward Efficient Electrocatalysts	*Miki Asanome , Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru, Toshiaki Ina, Hiroki Yamada, Koji Kimoto, Oki Saito, Kenji Okada, Masahide Takahashi	Hiroshima Univ. (Japan), JASRI (Japan), NIMS (Japan), OMU (Japan)
3P43	18:00	19:00	Higher excited-state dynamics of perylene monoimide coordinated to inorganic nanocrystals	*Mizuki Sato , Daisuke Yoshioka, Yuki Nagai, Yoichi Kobayashi	Ritsumeikan Univ. (Japan), PRESTO JST (Japan)
3P44	18:00	19:00	Visible light-induced decomposition of perfluoroalkyl substances by CdS/ZnS core/shell nanocrystals	*Kohki Tanaka , Yuki Nagai, Yoichi Kobayashi	Ritsumeikan Univ. (Japan), PRESTO JST (Japan)
3P45	18:00	19:00	Electron density distribution analysis of Mn–As layered compounds with different types of antiferromagnet	*Kentaro Katayama , Chikako Moriyoshi, Kouichi Takase	Hiroshima University (Japan), Nihon University (Japan)
3P46	18:00	19:00	The effect of charge density on the crystal structure of layered double hydroxides of the Ni-Al type containing carbonate or chloride ions	*Kota Nakanishi , Chikako Moriyoshi, Shogo Kawaguchi, Ryo Sasai	Hiroshima University (Japan), JASRI (Japan), Shimane University (Japan)
3P47	18:00	19:00	QENS study on local dynamics of hydration water using Si311 analyzer	*Takeshi Yamada	CROSS (Japan)
3P48	18:00	19:00	Trace blood detection by inducing fluorescence of hemoglobin via selective iron exclusion	*Yoon Kang , Jae-Min Oh	Dongguk university (Korea)
3P49	18:00	19:00	Anisotropic growth of layered double hydroxides on planar aluminum or spherical alumina substrates	*Taeho Kim , Yoon Kang, Jaeseong Kim, Rena Oi, Shota Mochizuki, Ryoto Kobayashi, Tomohiko Okada, Jae-Min Oh	Dongguk University (Korea), Shinshu University (Japan)
3P50	18:00	19:00	Hybridization of a Zn-smectite with spherical silica particles	*Shota Mochizuki , Tomohiko Okada	Shinshu University (Japan)
3P51	18:00	19:00	Adsorption of Anionic Red Dyes on Smectite in the Presence of Multivalent Cations	*Rena Oi , Tomohiko Okada	Shinshu University (Japan)
3P52	18:00	19:00	Formation of Titania Particles via Incorporation of Titanium (IV) Oxyacetylacetonate into Mesoporous Silica	*Kakeru Taniuchi , Tomohiko Okada, Masashi Morita	Shinshu University (Japan), Tokyo University of Agriculture and Technology (Japan)

August 1, 2025						
No.	Start	Fin.				
				Title	Presenters	Affiliation
Room A						
Chair: Masashi Morita (Tokyo University of Agriculture and Technology)						
4A01	9:10	9:30	[Invited] A Solid-State Surfactant Templating Method for Synthesizing Novel 2D Nanosheets		*Eisuke Yamamoto, Minoru Osada	Nagoya University (Japan)
4A02	9:30	9:50	Nanospace design in hydroxyapatite nanoparticle films for improving initial cell culture properties		*Zizhen Liu, Motohiro Tagaya	Nagaoka University of Technology (Japan), JSPS Research Fellowship for Young Scientists (PD) (Japan)
4A03	9:50	10:10	Thermal Insulation and Stability Improvement Methods for Ytria-Doped Silica Aerogel at High Temperatures and It's Applications		*SangHyun Kim, Hyung-Ho Park	Yonsei University (Korea)
4A04	10:10	10:30	[Invited] Stabilization of otherwise fleeting Fe-oxo oligomers for cosmetic and photocatalytic applications		*Yusuke Ide	National Institute for Materials Science (Japan)
	10:30	10:50	Coffee Break			
Chair: Eisuke Yamamoto (Nagoya University)						
4A05	10:50	11:10	[Invited] Alkyl- π Liquids Toward Deformable Vibration Sensors		*Takashi Nakanishi	MANA, National Institute for Materials Science (Japan), Hokkaido Univ. (Japan)
4A06	11:10	11:30	[Invited] Rapid N ₂ /O ₂ separation via graphene-zeolite interfacial 2D nanochannels		*Hayato Otsuka, Ayumi Furuse, Kei Kubo, Katsumi Kaneko	Shinshu Univ. (Japan)
4A07	11:30	11:50	[Invited] Structurally Controlled Carboxy-Functionalized Silsesquioxanes for Antifogging Hard Coatings		*Yoshiro Kaneko	Kagoshima Univ. (Japan)
	11:50	13:30	Lunch Break			
Room B						
Chair: Keisuke Muramatsu (Shinshu University)						
4B01	9:10	9:30	Synthesis of solid solution alloy nanoparticles and study of their structure transition		*Mai Thanh Nguyen, Tetsu Yonezawa	Hokkaido University (Japan)
4B02	9:30	9:50	Synthesis and Bonding Characteristics of Copper Nanoparticle Pastes Coated with Carboxylic Acids		*Masahito Goto, Tetsu Yonezawa, Hiroki Tsukamoto	Hokkaido University (Japan)
4B03	9:50	10:10	[Invited] Synthesis of Quasi-Single Crystalline Nanoporous Iron Oxides using Metal Chloride as a Precursor		*Takamichi Matsuno, Daichi Oka, Kohei Takaoka, Atsushi Shimojima	Waseda University (Japan)
4B04	10:10	10:30	[Invited] Interconnection of organic-inorganic hybrid hydroxide salt nanoparticles toward design of porous architectures		*Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru	Hiroshima University (Japan)
	10:30	10:50	Coffee Break			
Chair: Yusuke Ide (NIMS)						
4B05	10:50	11:10	[Invited] Mesocrystal Engineering for Photocatalytic Generation of Solar Hydrogen and Value-Added Chemicals		*Takashi Tachikawa	Kobe Univ. (Japan)
4B06	11:10	11:30	Z-Type Ligand Doping Strategy for Tunable Photophysics in Zinc Sulfide Nanocrystals		*Shunsuke Kobashi, Yoichi Kobayashi	Ritsumeikan University (Japan), PRESTO JST (Japan)
4B07	11:30	11:50	[Invited] Photocatalytic decomposition of perfluoroalkyl substances by visible and near-UV light under ambient conditions		*Yoichi Kobayashi	Ritsumeikan Univ. (Japan)
	11:50	13:30	Lunch Break			
Room B						
Dr. Yoshiaki Fukushima's memorial session						
Chair: Makoto Ogawa (VISTEC and Shinshu Univ), Takeshi Yamada (CROSS)						
4B08	13:30	13:50	Advancing Nanomaterials Frontiers: A Tribute to Dr. Fukushima		*Shinji Inagaki	Nagoya University (Japan)
4B09	13:50	14:10	Neutron scattering study on clay and polymer nano-composite		*Takeshi Yamada	CROSS (Japan)
4B10	14:10	14:30	States of Guest Molecules/Molecular Assemblies in Two dimensional Nanospace		*Makoto Ogawa, Kamonnart Jaa Imwiset, Takeshi Yamada, Yoshiaki Fukushima	Shinshu University (Japan), VISTEC (Thailand), CROSS (Japan)
	14:30	14:45	Coffee Break			
Room A						
Chair: Nobuyoshi Miyamoto (Fukuoka Institute of Technology)						
4A08	14:45	15:05	[Invited] From Plastic to Valuable MOF Materials: Development of High-Performance Catalysts for PET/PC Recycling and BHET/PET-to-MOF Synthesis		*Kevin C.-W. Wu	Department of Chemical Engineering (Taiwan)
4A09	15:05	15:25	[Invited] Exploring the Earliest and Latest Frontiers of PCP/MOF Science: From Flexible Gate Adsorption to 3D Inner-Crystal Mapping		*Hirotoshi Sakamoto	Kyoto University (Japan)
4A10	15:25	15:45	[Invited] Designing Dynamic MOFs for Tunable Gas Separation Performance		*Kenichi Otake	Kyoto University (Japan)
4A11	15:45	16:05	Modulating Materials Assembly: Impacts of Bio-inspired Disruptors to Inorganic Crystallization		*Bryan Alamani	University of the Philippines - Diliman (Philippines)
Room B						
Chair: Takayoshi Hara (Chiba Univ)						
4B11	14:45	15:05	Maximizing the internal tube space of single-walled carbon nanotubes by selective removal of end caps		*Ayumi Furuse, Dragana Stevic, Kazunori Fujisawa, Cheon-Soo Kang, Takuya Hayashi, Katsumi Kaneko	Shinshu Univ. (Japan), Univ. of Banja Luka (Bosnia and Herzegovina)
4B12	15:05	15:25	Ultramicropore analysis of carbon-based nanoporous materials with PALS method		*Kei Kubo, Hayato Otsuka, Ayumi Furuse, Daisuke Saeki, Takuya Hayashi, Toshio Sakai, Katsumi Kaneko	Shinshu university (Japan)
					*Shuwen Wang, Fernando Vallejos-Burgos, Ayumi Furuse, Hayato Otsuka, Tomonori Ohba, Hirofumi Kanoh, Koki Urita, Hiroo Notohara, Isamu Moriguchi, Hideki Tanaka, Joaquín Silvestre-Albero, Takuya Hayashi, Katsumi Kaneko, Miu Nagae, Yuma Kawamata, Juan P. Marco-Lozar	Shinshu University (Japan), Chiba University (Japan), Nagasaki University (Japan), Morgan Advanced Materials (United States of America), Universidad de Alicante (Spain), G2MTech (Spain)
4B13	15:25	15:45	Safe and Controllable Methane Storage at Ambient Pressure Enabled by Graphene-Coated Porous Carbon			
Room A						
	16:05	16:30	Closing ceremony			