



4th List Platform Symposium Poster Session
PRESENTERS, POSTER NUMBERS AND POSTER TITLES
August 4th, 2026

PRESENTER	No.	TITLE
NATH Pinku	1	ChemOntology: Formalizing Chemical Reasoning for Autonomous Potential Energy Surface Exploration
YOROZUYA Shinnosuke	2	Design and Development of an Automated pH Measurement Robot for Chemical Experiments
HASUKAWA Yoshiki	3	Data-Driven Design and Experimental Validation of Bimetallic CO ₂ Methanation Catalysts
SAKAMOTO Koki	4	Influence of Vegetable Feedstock Minerals on Biochar Structure and CO ₂ Uptake
SUDO Hinata	5	Catalyst Discovery for Oxidative Coupling of Methane Using Catalyst Informatics
LU Jiaxiang	6	Confined Acids Catalyze a Broadly Applicable β -Selective O-Glycosylation
KOIWAI Rensuke	7	Structure-Activity Relationship of Natural Rhodochrosite in Catalytic Methane Oxidation
GARCIA-ESCOBAR Fernando	8	Heterogeneous Catalyst Design with the MonteCat Algorithm
UMER Umair	9	Accurate High-Order Derivatives of Chebyshev-Expanded Potential Energy Surfaces for Phase-Space Chemical Dynamics
AOKI Juntaro	10	Development of a 3D-Printed Flow Reactor and an Open-Source GUI-Based Control System
ZHANG Shuhan	11	Evaluating the CO ₂ Capture Potential of Natural Minerals
PRASAD Kaveri	12	A Global Multi-Solvent Machine Learning Framework for Predicting Heteroaryl Azo Photoswitch Kinetics and Spectra
WANG Mengfei	13	Europium Complexes in Aqueous Media: Design, Photophysics, and Sensing
STAUB Ruben	14	NNP-AFIR Accelerated Reaction Path Search: Solving the Passerini Mechanism Controversy



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PRESENTER	No.	TITLE
TASHIRO Tomoya	15	The Mundrabilla Iron Meteorite from a Materials Science Perspective
MATSUTANI Satoshi	16	Development of a Conformational Sampling Method for Transition State Structures with Diverse Active Bond Lengths
ZHANG Haixin	17	Organocatalyst-Loaded Double-Network Gels for High-Performance Catalytic Reactions
ZHANG Enzhi	18	A Distributed Edge-Cloud-HPC Platform for 3D Forest Segmentation and LLM-Driven Individual Tree Analysis
LIU Ke	19	Machine Learning-Assisted Time-Resolved SERS for Discrimination of Branched-Chain Amino Acids
WEI Gumi	20	Force-Driven Growth and Fibrillogenesis Create Anisotropic Flaw-Resistant Hydrogels
HATANO Hibiki	21	Catalytic Asymmetric Hydration of Alkenes
LINJORDET Trond	22	Towards Task-Appropriate Validation of Generated Molecular Geometries
ALCANTARA FERNANDES Vitor	23	A Comprehensive Optimization For Asymmetric Catalysis: Mukaiyama Aldol Reaction
SHIMOSATO Junpei	24	Synergistic Pt/Photoredox-Catalyzed C4-Selective Allylation of Quinoline Derivatives
TANG Xingyu	25	Transferability for Reaction Path Search: From Small to Large
LIAO Hongguang	26	Ionic Screening-Tolerant Polyelectrolyte Hydrogels via Bioinspired Adjacent Charge-Aromatic Sequences
PENG Run-qi	27	Synthetic Studies toward Strong Organic S(VI) Acids: Sulfonimidamides and Sulfondiimidamides
UENO Yamato	28	Discovering Hidden Side Reactions within Reaction-Path Networks through Network Editing: Reaction Development for Arylcarboxylation of Alkenes