

## POSTER SESSION 1 | TUESDAY 3 FEBRUARY 2026

No	Presenter name	Poster title	Theme
01	Renya Fukuda	Kinetic Morphological Control of Crystallization-driven Self-assemblies Constructed from Poly(N-butyl glycine)-b-Poly(N-methyl glycine)	2D Materials
02	Tanish Gupta	MoS <sub>2</sub> Photoluminescence Signatures as Physical Unclonable Functions	2D Materials
03	Tanima Kundu	Dimensional crossover and emergence of novel phases in puckered PdSe <sub>2</sub> under pressure	2D Materials
04	Dulani Liyanage	Fabrication and Characterization of Electrospun Two-Dimensional (2D) MoS <sub>2</sub> incorporated in PVP Nanofibers	2D Materials
05	Rashed Hussain Lone	Tunable excitonic emission in monolayer MoS <sub>2</sub> and MoS <sub>2</sub> /MoSe <sub>2</sub> heterobilayers via substrate engineering	2D Materials
06	Rahul Paramanik	In-plane anisotropy-driven directional charge transport in van der Waals p-n heterojunction	2D Materials
07	That-Buu Ton	High-performance self-driven lateral n-MoS <sub>2</sub> /p-Si Heterostructure Broadband Photodetectors	2D Materials
08	Tanzeela Yousaf	SPM measurements of flexible 2D perovskites under external stress	2D Materials
09	Zixiyi Zhang	Evaluation of the effect of Fe-rGO 2D sheets aggregation on electrochemical performance	2D Materials
10	Haining Zheng	Chiral Multiferroicity in Two-Dimensional Hybrid Organic-Inorganic Perovskites	2D Materials
11	Garima Dobhal	Mechanistic insights into ligand exchange and catalysis on Au <sub>25</sub> nanoclusters	Computational Nanoscience
12	Ki-Ha Hong	Strain and Compositional Engineering for Polymorph Stabilization in Inorganic Halide Perovskites	Computational Nanoscience
13	Alexander Phan	Simulation of defects in 2D materials assisted via on-the-fly machine learned forcefields	Computational Nanoscience
14	Seunghyeon Lee	DNA–Au Nanohybrids with Enhanced Multifunctionality through Rolling Circle Amplification	DNA and RNA Nanotechnology
15	Alicia Werlen	Reconfigurable DNA nanostructures for drug delivery	DNA and RNA Nanotechnology
16	Yuan Chen	Surface-engineered Janus nanoparticles for antimicrobial activities	Nanobiotechnology

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17	Fred Junghans	Metal–Phenolic Networks for Biointerface Design and Functional Surface Engineering	Nanobiotechnology
18	Maria Laura Tummino	Optimization of mucin and mucin/keratin nanofibers' fabrication for antimicrobial applications	Nanobiotechnology
19	Hyun Kyu Lee	ZIF-Based Porous Carbon Additives for Improved Ionic Transport and Electrochemical Performance in LFP Cathodes	Nanocarbon
20	Haejin Hwang	Synthesis of Ni-Al Layered Double Hydroxides for Catalysts in Solid Oxide Cells (SOCs)	Nanocatalysis
21	Soohwan Min	Atomic Layer Deposition of Pt-Decorated MoS <sub>2</sub> Nanosheets for Enhanced Hydrogen Evolution Reaction	Nanocatalysis
22	Thi Thuy Kieu Tran	Double Flame Spray Pyrolysis for High Mass Activity Fe <sub>2</sub> O <sub>3</sub> -based Electrocatalysts in Alkaline Water Electrolysis	Nanocatalysis
23	Ji-hyun Cha	Green-emissive copper-based metal halide perovskite nanocomposites in UiO-66 MOF	Nanocrystals and Nanoplasmonics
24	Doo-Hyun Ko	Polarization-Selective Upconversion Enhancement via Metal–Insulator–Metal Structured Plasmonic Polarizer	Nanocrystals and Nanoplasmonics
25	Bart-Jan Niebuur	Additive-Induced Coarsening of Thiol-Coated Gold Nanoparticles	Nanocrystals and Nanoplasmonics
26	Youp van Deurzen	Flexible, dual function artificial leaf with Janus nanostructure for plasmon-driven photocatalysis	Nanocrystals and Nanoplasmonics
27	Ji-Hyuk Choi	Dimension-Controlled Ag Nanostructures for Conductive Nanomesh Electronics: Surface-Chemistry-Mediated Interfacial Sintering of 1D Nanowires and 0D Nanocrystals	Nanoelectronics
28	Nuria Hanim	Circuit Modelling and High-Frequency Characterization of Nanoscale Vacuum Channel Device	Nanoelectronics