

Topic Stream		Symposium		Monday 15-Dec-2025	Tuesday 16-Dec-2025	Wednesday 17-Dec-2025	Thursday 18-Dec-2025	Friday 19-Dec-2025	Saturday 20-Dec-2025
Accelerating Materials Discovery	Autonomous Chemistry for Accelerated Materials Discovery						AM Poster	AM/PM	AM
	Computational Modeling and Design of Functional Materials in the AI Era	AM/PM	AM/PM	AM Poster					
	Machine Learning-Based Accelerated Discovery of Advanced Materials in Support of Green Energy Transition			AM/PM	AM/PM				
	Transformative Manufacturing of Critical Materials and Chemicals Through Artificial Intelligence and Automation		AM/PM	AM/PM	AM Poster				
Advances in Bioinorganic Chemistry	Cutting Edge of Catalytic Heme Enzymes	AM/PM	AM						
	Harnessing the Potential of Small Molecules: Exploring Metalloenzymes and Adaptation in Synthetic Catalysts							AM/PM/ EVE Poster	AM
	Metals in Biological Chemistry. Metal-Binding Active Oxygen Species Correlated to Sustainable Development Goals		PM	AM/PM/ EVE Poster					
	Novel Heme Proteins and Model Systems					AM/PM	AM/EVE Poster		
Aptamers	Biomaterials Meet Nucleic Acid Aptamers: Creating Killer Applications in the Medical Field						AM/PM	AM Poster	
	From Molecular Diagnostics to Therapeutics with Aptamers	AM/PM	AM/PM	AM Poster					
Batteries	Battery Chemistry Beyond Li-Ion: Materials, Interfaces, Characterizations and Simulations		AM Poster	AM/PM	AM/PM				
	Battery Research in GX and DX Era	AM/PM	AM/PM	AM Poster					
Bioinspired Polymers	Dynamics-Driven Design Of Functional Biological And Bio-Inspired Macromolecules				AM	AM	AM Poster		
	Polymers At The Interface With Biology: Innovations In Design, Synthesis, And Applications	AM/PM	AM/PM	AM Poster					
Biomolecular Self	Peptide Self-Assembly: Chemistry and Nanotechnology	AM/PM	AM/PM	AM Poster					
	Protein Aggregation, Biocondensation, and Biomolecular Self-Assembly	AM/PM	AM/PM	AM Poster					
Bioorthogonal	Bio-Orthogonal Chemistry and Click Chemistry in Basic and Translational Biomedical Research		AM/PM	AM/PM	AM Poster				
	Making Smart Drugs Smarter Through Bioorthogonal Chemistry					PM/AM Poster	AM		
Carbenes	Carbenes For Catalysis And Synthesis						EVE Poster	AM/PM	AM
	N-Heterocyclic Carbenes for Next Generation Materials from 0 to 3 Dimensions				PM	PM	AM/EVE Poster		
Catalyzed Biomass Conversion to Chemicals and Fuels	Advances in Catalysis for Environmentally Friendly Fuels and Chemicals Production from Alternative Resources		AM Poster	AM/PM	AM/PM	AM			
	Heterogeneous Catalysis for the Valorization of Next-Generation Carbon Resources		AM/PM	AM Poster					
	Sustainable Chemicals and Bioproducts from Biomass					AM Poster	AM/PM	AM	
Chemistry of Gels	Bringing Order To Disordered Polymer Gels	AM/PM	AM/PM	AM Poster					
	Microgels And Nanogels: Fundamentals And Applications					PM/AM Poster	AM/PM		
	Polymer Gels And Rubbery Materials: The Epitome Of Soft Matter			AM/PM	AM/PM/AM Poster				
CO2 Capture and Conversion	Advanced Materials for Carbon Capture and Utilization for Sustainable Fuel Production	AM/PM	AM/PM	AM Poster					
	Electrochemical CO2 Capture and Conversion		AM Poster	AM/PM	AM/PM	AM			
	Frontlines of Research on the CO2 Conversion Catalyst Towards an Industrial Approach						PM/AM Poster	AM	

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Emerging Tools for Synthesis	Continuous Flow Science from Bench to Market à A Joint Academic-Industrial Initiative					AM/PM	AM/PM	AM Poster	
	Enabling Tools For Organic Synthesis						EVE Poster	AM/PM	AM
	Synthesis Using Flow And Microreactor Systems					AM/PM	AM/EVE Poster		
	Emerging Analytical Technology Development Advancing Environmental Exposure and Effect Studies	AM/PM	AM/PM/ EVE Poster						
	In-Situ Contaminants Monitoring Approaches Using Passive Sampling Methods to Investigate Trends of Organic Contaminants in the Environment						AM/EVE Poster		
	Unlocking the Well-Filled Analytical Toolbox: Methods for Screening and Deep-Dive Analysis to Assess Fate, Transport, and Effects of Emerging Contaminants in the Environment		AM Poster	AM/PM					
Epigenetic Advances	Epigenetic Mechanisms and Advances in Chromatin Biology					AM Poster	AM/PM	AM/PM	AM
	Frontiers in Macromolecule Epigenetic Modifications: Chemical Tools, Biochemical Mechanisms, Function Annotation/Modulation/Perturbation	AM/PM	AM/PM	AM		AM Poster			
f-Element Chemistry	Frontiers and New Horizons in Molecular f-Element Chemistry	AM/PM	AM/PM	AM		AM Poster			
	Frontiers in Actinide Chemistry: From Fundamental Systems to Practical Applications					AM/PM	AM/PM/ EVE Poster		AM
Functional Biomolecules	Aardvarks to Zebus, Challenging Chemistry Targets and Innovative Solutions in Synthetic, Medicinal and Biological Peptide and Protein Science	AM/PM	AM/PM	EVE Poster					
	Design of Functional Proteins, Peptides, and Peptidomimetics.		AM Poster	AM/PM	AM/PM				
	Revealing the Biophysics Behind Biomolecule Assembly and Function						PM/AM Poster		AM
Hydrogen for Energy Storage	Handling Hydrogen at Scale: Liquids-Based Hydrogen Carriers						PM/AM Poster	AM/PM	AM
	Hydrogen Materials for Energy Storage	AM/PM	AM/PM	AM Poster					
	Hydrogen Production, Storage, and Fuel Cells for Green Transformation			AM/PM	AM/PM	AM Poster			
Inclusive Chemistry	Inclusive Laboratory Instruction for Students Who Are Blind or Low Vision			AM/PM					
	It Gets Better: Pride in (Pacifi)Chem							AM/PM	AM
	Promoting Diversity and Multiculturalism in Chemistry Education					AM/PM/ EVE Poster			
	Scholarship at the Interface of Chemistry Education and Equity/Diversity/Inclusion	AM/PM	AM						
Iodine	Hypervalent Iodine: Bonding, Mechanism and Synthetic Applications							PM	
	Iodine: Chemistry, Properties, And Uses							AM/PM/ EVE Poster	
Life of Pi	Advanced Pi-Conjugated Molecular Semiconductor Materials And Devices For Next-Generation Electronics	AM/PM	EVE Poster						
	Designed Pi-Electronic Systems: Synthesis, Properties, Theory, And Function					AM/PM	AM/PM/ EVE Poster		AM
	Programmed Assembly Of Pi-Conjugated Molecules And Polymers	AM/PM	AM/PM	AM Poster					
Light Matter Interaction	Modern Methods for Strong Light-Matter Interactions in Complex Chemical Systems					AM/PM	AM/PM		
	New Era Of Chiral Light-Matter Interaction Effects	AM/PM	AM/PM/ EVE Poster						

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Machine Learning for Biomaterials	Emerging Frontiers: Machine Learning Transforming Studies of Biomolecular Dynamics					AM/PM	AM/PM	AM Poster	
	Harnessing Computers for Rational Design of Polymeric Biomaterials: From First Principles to Generative AI							PM	AM
Machine Learning for Drug Development and Discovery	Augmented Discovery: Machine Learning Approaches to Improve Drug Development						AM Poster	AM/PM	AM
	Machine Learning for Calculation of Accurate Protein-Ligand Binding Free Energies for Drug Discovery					AM/PM	AM/PM	AM Poster	
Main Group Chemistry	Alkali Metal and Alkaline Earth Chemistry - Developments, Applications & Challenges							PM/AM Poster	AM
	Straying Away From The Main Line: Unusual Properties And Reactivity Of Main Group Elements	AM/PM	AM/PM/ EVE Poster	AM					
Main Group Polymers	Expanding The Macromolecular Periodic Table: Polymers And Supramolecules Containing Non-Hydrocarbon Elements For Enhanced Functionality						AM Poster	AM/PM	AM
	Silicon-Containing Polymers And Oligomers: Synthesis, Structural Control, Functions, Hybridization, And Applications	AM/PM	AM/PM	AM Poster					
Managing PFAS	Basic Chemistry of PFAS for Well-Balanced Society	AM/PM	AM Poster						
	Conspicuous Synthesis And Degradation Of Organofluorine Compounds			AM/PM/ EVE Poster					
	Deciphering the Impact of PFAS on Environment and Health					PM/AM Poster	AM/PM	AM	
Microfluidic Technologies	Emerging Microfluidic and Nano-Analytical Technologies for Biomarker Detection		AM Poster	AM/PM					
	Low-Cost Capillary-Powered Microfluidics for Point-of-Need Measurements	AM/PM	EVE Poster						
National Facilities (Big Hardware)	Accelerator-Based In Situ/Operando Studies In Advancing Chemical Sciences		PM	AM/PM					
	Structural Analysis Of Complex Materials: Advances In X-Ray And Neutron Scattering	AM/PM							
	Synchrotron Radiation Characterizations in Energy Storage and Conversion Materials							AM/PM/ EVE Poster	AM
Pasmons are Hot	Advances in Plasmon Enhanced Spectroscopies		AM/PM	AM/PM	AM Poster				
	Emerging Frontiers In Plasmonic Chemistry					AM/PM	AM/PM/ EVE Poster	AM	
Plastics Recycling	Recycling of Plastic and Polymer Materials Waste							PM/AM Poster	AM
	Recycling of Polymeric Materials: Challenges and Perspectives			PM	AM	AM Poster			
Radiochemistry	Accessing New Targets with Medicinal Inorganic Chemistry	AM/PM	AM/PM/ EVE Poster						
	Advancements in Chemistry of Theranostics for Targeted Radionuclide Therapy			AM/PM	AM	AM Poster			
	The Chemistry of ¹⁸ F, ¹¹ C, Radiometal and Fluorophore-Based Probes				AM/PM	AM/PM	AM		
Reactive Species	Isolation Of Transient Species In Superfluid Helium Droplets	AM/PM	AM/PM/ EVE Poster	AM					
	Recent Advances And Future Developments In Solid Matrix Isolated Species				AM/PM	AM/PM/ EVE Poster	AM		
Recycling and Upcycling	Green Solvents for Attaining a Circular Economy Through Processing Renewable and Upcyclable Materials					AM Poster	AM/PM		
	Sustainable Electronics: From Metal Recovery and (Micro)Plastics Valorization to Biodegradable Electronics			PM	AM	AM Poster			

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Responsive Materials	Mechanically Responsive Materials: Bridging The Gap Between Polymers And Crystals						AM/PM/ EVE Poster	AM/PM	AM
	Multi-Stimulus-Responsive Polymers And Nanocomposites					AM/PM	AM/PM/ EVE Poster		
	Stimuli-Responsive Materials for Green and Sustainable Chemistry	AM/PM	AM/PM						
Shining Light on Metal Complexes	Photofunctions of Metal Complexes: From Fundamental Aspects to Applications	AM/PM	EVE Poster						
	Photon-to-X Conversion: Photoinduced Redox Activation of Molecules by Transition Metal Complexes							AM/PM/ EVE Poster	AM
Soft Interfaces	Advances In Polymer-Functionalized Soft Interfaces							AM/PM	AM
	Advances In Understanding And Controlling Surface/Interfaces Of Polymer Materials At Multiple Scales		AM Poster	AM/PM					
Sustainable Photo	Electrocatalysis for Sustainable Processes					AM Poster	AM/PM	AM/PM	AM
	Photo/Electro-Catalysis for Carbon Neutrality and Sustainable Engineering	AM/PM	AM/PM	AM Poster					
Synthetic Photocatalysis	Beyond Exogenous: The Direct Visible Light Activation Of Transition Metal Catalysts					AM/PM	AM/EVE Poster		
	Frontiers In Synthetic Organic Photocatalysis	AM/PM	AM/PM/ EVE Poster						
	Photosciences In Molecular And Supramolecular Scaffolds						PM	AM/PM/ EVE Poster	AM
Thermoelectrics	Advances in Electrochemical and Liquid-Based Thermal Technologies for Waste Heat Utilization and Electricity Storage							PM	AM
	Chemistry and Physics of Solids for Thermoelectric Energy Conversion and Thermal Energy Harnessing					PM	AM/PM	AM Poster	