

Horizons symposium 2026: (Nano)catalysis

12-13 November 2026 | London, UK



Thursday 12 November 2026 (All times shown are GMT)

09:30	Registration and refreshments
10:30	Opening remarks
	Heterogeneous catalysis (Session chair:)
10:45	Unlocking Catalytic Function in Transition-Metal Free Zintl Compounds through Solid-State Chemical Design Principles Josh Goldberger <i>The Ohio State University, USA</i>
11:15	Mechanistic insights into Cu-catalyzed electrocatalytic CO₂ reduction Bingjun Xu <i>Peking University, China</i>
11:45	From Atomic-Resolution Single-Molecule Imaging to Macroscopic Insights into Coke Formation in Zeolite Catalysis Mengxi Liu <i>National Center for Nanoscience and Technology, China</i>
12:05	Heterogeneous Catalysis in Biomolecular Systems: NADH/NAD⁺ Interconversion and Cofactor Regeneration Xiaodong Wang <i>Tianjin University, China</i>
12:25	Lightning poster presentations (by invitation of the Scientific Committee)
13:00	Lunch and posters
	More heterogeneous catalysis (with light!) (Session chair:)
14:00	Title TBC Calum Ferguson <i>University of Birmingham, UK</i>
14:30	Ti-based nanocatalysts under reactive conditions Lars Mohrhusen <i>Carl von Ossietzky University of Oldenburg, Germany</i>
14:50	Interface Engineering in 2D MoS₂ Heterojunctions Enables Light-Activated Cascade Nanocatalysis Almudena Marti <i>L2CM, Universite de Lorraine, France</i>
15:10	Surface-supported All-inorganic Molecular Clusters for Light-driven Water Splitting Reactions Alexey Cherevan <i>Technical University of Vienna (TU Wien), Austria</i>

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15:30	Refreshments
	Molecular catalysis and single atom catalysis (Session chair:)
16:00	From Optimized to Adaptive - Reversible Control of Catalyst Performance on the Molecular Scale Walter Leitner <i>Max Planck Institute for Chemical Energy Conversion, Germany</i>
16:30	Single-Atom Catalysis Tao Zhang <i>Dalian Institute of Chemical Physics, CAS, China</i>
17:00	Flexible Cu single-atom catalysts in hydrogen-bonded organic frameworks enabling efficient three-component heterocycle synthesis Gianvito Vilé <i>Politecnico di Milano, Italy</i>
17:20	Poster session and drinks reception
19:00	Close of session

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Friday 13 November 2026 (All times shown are GMT)

09:00	Day 2 introduction and welcome
	Metallic catalyst materials (Session chair:)
09:10	Title TBC Michelle Personick <i>University of Virginia, USA</i>
09:40	Nanoscale Strain-Engineering Controls the Reactivity of Nanoparticle Catalysts Jessi van der Hoeven <i>Utrecht University, Netherlands</i>
10:10	Visible Light Enhancement of Acceptorless Dehydrogenation Reactions Using Plasmonic Copper Nanoparticles Zachary Warren <i>University of Bath, UK</i>
10:30	Unconventional Metallic Mixtures for Electrocatalysis Michael Ross <i>University of Massachusetts Lowell, USA</i>
10:50	Effects of surface nanostructure of metal co-catalysts for photocatalytic conversion of methane: a theoretical study Natalia Martsinovich <i>University of Sheffield, UK</i>
11:10	Refreshments
	Sustainable energy for the future (Session chair:)
11:40	Catalyzing Low Temperature Oxygen Atom Transfer Reactions – A Pathway To Low-Carbon “Just-In-Time” Hydrogen Jonathan Veinot <i>University of Alberta, Dept of Chemistry, Canada</i>
12:00	Defect- and Interface-Engineered Nanophotocatalysts for Solar CO₂ Conversion and Water Splitting Su Il In <i>DGIST (Daegu Gyeongbuk Institute of Science and Technology), South Korea</i>
12:20	Developing high throughput synthesis and analysis tools to improve the performance of photoelectrochemical water splitting devices Andreas Kafizas <i>Imperial College London, UK</i>
12:40	The Morphology of Sub-Nanometer Clusters on Metal Oxides using Machine Learning Accelerated Methods Thomas Hill <i>Cardiff University, UK</i>
13:00	Lightning poster presentations (by invitation of the Scientific Committee)
13:30	Lunch and posters
14:30	Panel discussion/Meet the Editor

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15:15	Refreshments
	Organometallic and metal-organic (Session chair:)
15:45	Title TBC Bruno Chaudret <i>INSA Toulouse, France</i>
16:15	Title TBC Petra Ágota Szilágyi <i>University of Oslo, Norway</i>
16:45	Closing remarks and poster prize presentation
17:00	Close of symposium