Horizons symposium 2026: (Nano)catalysis

12-13 November 2026 | London, UK



Thursday 12 November 2026 (All times shown are GMT)

09:45	Registration and refreshments
10:30	**Opening remarks**
	Heterogeneous catalysis **(Session chair: Michelle Personick)**
10:45	**Unlocking catalytic function in transition-metal free Zintl compounds through solid-state chemical design principles** Josh Goldberger *The Ohio State University, USA*
11:15	**Mechanistic insights into Cu-catalyzed electrocatalytic CO2 reduction** Bingjun Xu *Peking University, China*
11:45	**From atomic-resolution single-molecule imaging to macroscopic insights into coke formation in zeolite catalysis** Mengxi Liu *National Center for Nanoscience and Technology, China*
12:05	**Heterogeneous catalysis in biomolecular systems: NADH/NAD$^+$ interconversion and cofactor regeneration** Xiaodong Wang *Tianjin University, China*
12:25	Lightning poster presentations (by invitation of the Scientific Committee)
13:00	Lunch and posters
	More heterogeneous catalysis (with light!) **(Session chair: Jonathan Veinot)**
14:00	**Photocatalytic heterogeneous polymers: Does size matter?** Calum Ferguson *University of Birmingham, UK*
14:30	**Ti-based nanocatalysts under reactive conditions** Lars Mohrhusen *Carl von Ossietzky University of Oldenburg, Germany*
14:50	**Interface engineering in 2D MoS_2 heterojunctions enables light-activated cascade nanocatalysis** Almudena Marti *L2CM, Universite de Lorraine, France*
15:10	**Surface-supported all-inorganic molecular clusters for light-driven water splitting reactions** Alexey Cherevan *Technical University of Vienna (TU Wien), Austria*

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15:30	Refreshments
	Catalysis at the atomic level **(Session chair: Bruno Chaudret)**
16:00	**Catalyzing low temperature oxygen atom transfer reactions – a pathway to low-carbon "just-in-time" hydrogen** Jonathan Veinot *University of Alberta, Dept of Chemistry, Canada*
16:30	**Single-atom catalysis** Tao Zhang *Dalian Institute of Chemical Physics, CAS, China*
17:00	**Flexible Cu single-atom catalysts in hydrogen-bonded organic frameworks enabling efficient three-component heterocycle synthesis** Gianvito Vilé *Politecnico di Milano, Italy*
17:20	Poster session and drinks reception
19:00	Close of session

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09:00	**Welcome**
	Metallic catalyst materials **(Session chair: Xiaohui Qiu)**
09:10	**In situ electroanalytical tools for rational nanocatalyst synthetic design** Michelle Personick *University of Virginia, USA*
09:40	**Nanoscale strain-engineering controls the reactivity of nanoparticle catalysts** Jessi van der Hoeven *Utrecht University, Netherlands*
10:10	**Visible light enhancement of acceptorless dehydrogenation reactions using plasmonic copper nanoparticles** Zachary Warren *University of Bath, UK*
10:30	**Unconventional metallic mixtures for electrocatalysis** Michael Ross *University of Massachusetts Lowell, USA*
10:50	**Effects of surface nanostructure of metal co-catalysts for photocatalytic conversion of methane: a theoretical study** Natalia Martsinovich *University of Sheffield, UK*
11:10	Refreshments
	Sustainable energy for the future **(Session chair: Tao Zhang)**
11:40	**Nanocatalysts and oxygen carriers developed by supercritical hydrothermal synthesis** Akira Yoko *Tohoku University, Japan*
12:00	**Defect- and interface-engineered nanophotocatalysts for solar CO_2 conversion and water splitting** Su Il In *DGIST (Daegu Gyeongbuk Institute of Science and Technology), South Korea*
12:20	**Developing high throughput synthesis and analysis tools to improve the performance of photoelectrochemical water splitting devices** Andreas Kafizas *Imperial College London, UK*
12:40	**The morphology of sub-nanometer clusters on metal oxides using machine learning accelerated methods** Thomas Hill *Cardiff University, UK*
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: Josh Goldberger)
15:45	**Magnetically induced nanocatalysis** Bruno Chaudret *INSA Toulouse, France*
16:15	**Speciation and nanoconfinement effects in Pd/MOF catalysts for hydrogenation and C-C coupling reactions** Petra Ágota Szilágyi *University of Oslo, Norway*
16:45	Closing remarks and poster prize presentation
17:00	Close of symposium