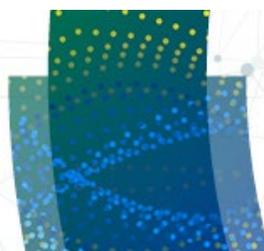


New horizons in nanoelectrochemistry

14-16 October 2024 | Nanjing, China



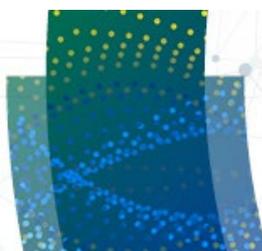
Faraday Discussions

Day 1

11:00	Registration and refreshments
12:00	Lunch
12:45	Welcome and introductions Yi-Tao Long, <i>Co-chairs of Scientific Committee</i>
12:55	Outline of Discussion format Callum Woof and Kieran Nicholson, <i>Royal Society of Chemistry Publishing Editors</i>
13:00	Introductory Lecture – Spiers Memorial Lecture (Session chair: tbc) Lane Baker <i>Texas A&M University, USA</i>
	Session 1: Confined Nanopore Electrochemistry (Session chair: tbc)
14:00	Electrochemical Kinetic Fingerprinting of Single-Molecule Coordination in the Confined Nanopores Yi-Lun Ying <i>Nanjing University, China</i>
14:05	Differences in electrodeposition of Li, Na, and K from battery electrolytes in a nanochannel confinement Jelena Popovic-Neuber <i>University of Stavanger, Norway</i>
14:10	Ion Current Oscillation with Polyelectrolyte Modified Micropipettes Tianyi Xiong <i>Beijing National Laboratory for Molecular Sciences, China</i>
14:15	Discussion
15:30	Refreshments
16:00	Analysis and Detection Based on Solid Nanopore/Channel Fan Xia <i>China University of Geosciences, China</i>
16:05	Single-Particle Study Based on Solid-State Nanonet Yueming Zhai <i>Wuhan University, China</i>
16:10	Nanopore electrochemistry analysis of key opinion biomolecules of severe human diseases Liang Wang <i>Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences, China</i>
16:15	Discussion
17:30	Flash poster presentations (by invitation of the Scientific Committee)
18:00	Poster session and wine reception
19:30	Close

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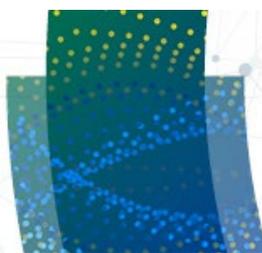
Faraday Discussions

Day 2

	Session 2: Spectroelectrochemistry and light active process at Nanointerface (Session chair: tbc)
09:00	Seeing nanoscale electrocatalytic reactions at individual MoS₂ particles under an optical microscope: probing sub-mM oxygen reduction reaction Frédéric Kanoufi <i>Université Paris Cité, CNRS, France</i>
09:05	Electrochemical Nucleation and Growth Kinetics: Insights from Single Particle Scanning Electrochemical Cell Microscopy Studies Caleb M. Hill <i>University of Wyoming, USA</i>
09:10	Electrochemiluminescence microscopy for the investigation of peptides interactions within planar lipid bilayers Kaoru Hiramoto <i>Tohoku University, Japan</i>
09:15	Discussion
10:30	Refreshments
	Session 3: Scanning Electrochemical Probe Microscopy
11:00	TBC Mei Shen <i>University of Illinois, USA</i>
11:05	Integrated Scanning Electrochemical Microscopy Platform with Local Electrochemical Impedance Spectroscopy Dechen Jiang <i>Nanjing University, China</i>
11:10	Advancements in Nanoparticle Measurement Techniques: Overcoming Challenges for Accurate Single Particle Analysis Lachlan F. Gaudin <i>Monash University, Australia</i>
11:15	Discussion
12:30	Lunch
	Session 3 cont: Scanning Electrochemical Probe Microscopy (Session chair: tbc)
13:30	Nanoscale visualization of the anti-tumor effect of a plasma-activated Ringer's lactate solution Yasufumi Takahashi <i>Nagoya University, Japan</i>
13:35	Scanning electrochemical probe microscopy characterization of micro-and nanostructured photocatalytic materials Christine Kranz <i>Ulm University, Germany</i>
13:40	Charge induced deformation of scanning electrolyte before contact Liang Liu <i>CNRS, LCPME, France</i>
13:45	Discussion
15:00	Refreshments
	Session 3 cont: Scanning Electrochemical Probe Microscopy (Session chair: tbc)
15:30	Delivery of Carbon Dioxide to an Electrode Surface Using a Nanopipette Kim McKelvey <i>Victoria University of Wellington, New Zealand</i>
15:35	Controlling Droplet Cell Environment in Scanning Electrochemical Cell Microscopy (SECCM) via Migration and Electroosmotic Flow Hang Ren <i>University of Texas at Austin, USA</i>
15:40	Discussion
16:40	Close of sessions
18:00	Pre-dinner drinks
18:30	Conference dinner

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Faraday Discussions

Day 3

	Session 4: Systems Nanoelectrochemistry from single entity to ensemble (Session chair: tbc)
09:00	TBC Paolo Actis <i>University of Leeds, UK</i>
09:05	Nafion-coated nanopore electrode for improving aptamer-based biosensing performance Kaiyu Fu <i>University of Notre Dame, USA</i>
09:10	The electrochemical modulation of single molecule fluorescence Justin Gooding <i>University of New South Wales, Australia</i>
09:15	TBC Zuzanna Siwy <i>University of California, Irvine, USA</i>
09:20	Discussion
11:00	Refreshments
11:30	The Production and Characterisation of a Micropore Nanoband Electrode (MNE) Array System for Enhanced Electrochemical Production/Analysis in Flow Systems Andrew Mount <i>University of Edinburgh, UK</i>
11:35	Single-molecule electrochemical imaging of 'split waves' in the electrocatalytic (EC') mechanism Jin Lu <i>National Center for Nanoscience and Technology, China</i>
11:40	Automated processing of nano-impact electrochemistry signals using data-driven template matching Ziwen Zhao <i>Uppsala University, Sweden</i>
11:45	Discussion
13:00	Concluding Remarks Lecture (Session chair: tbc) Andrew Ewing <i>University of Gothenburg, Sweden</i>
13:30	Acknowledgements
13:45	Close of meeting and lunch

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. If the presenting author of your paper has changed since abstract selection please email events@rsc.org. Please note that this is a draft programme and timings may change.