

Materials for energy storage and conversion

Joint Chemical Science RSC-CSJ symposium

31 October – 1 November 2024
London, UK and online

Thursday 31 October (timings are GMT)

09.00	Registration and refreshments
10:00	Welcome and introductions May Copsey <i>Exec Ed Chemical Science</i> Mitsuo Sawamoto <i>Exec Director Chemical Society of Japan</i>
	Session one: Materials for energy RSC-CSJ session (Session chair:)
10:20	Rational design of liquid electrolytes for rechargeable batteries Yuki Yamada <i>SANKEN, Osaka University</i>
10:55	Understanding Electrode Reaction Processes through Operando Vibrational Spectroscopy of Interfaces and Interphases Laurence Harwick <i>University of Liverpool</i>
11:30	Development of mesoporous carbon for fuel cell application Akari Hayashi <i>Kyushu University</i>
12:05	Molecular Engineering for Sustainable Intelligence Marina Freitag <i>Newcastle University, UK</i>
12:40	Lunch
	(Session chair:)
14:00	Title TBC Jennifer Rupp <i>TU Munich, Germany</i>
14:35	Stabilize transition metal chalcogenides as novel intercalation materials by electrolyte engineering approach Alexis Grimaud <i>Boston College, USA</i>
15:10	Title TBC Veronica Augustyn <i>NC State University, USA</i>
15:45	Refreshments
	(Session chair:)
16:15	Carbon and Water Recycling for Sustainable Energy: A Journey from Fundamental Chemistry to Green Technologies Sebastian Peter <i>JNCASR, India</i>
16:50	Flash poster presentations (by invitation from the Scientific Committee)
17:15	Poster session
19:00	Close of sessions

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	Session two: Materials for energy RSC-CSJ Session (Session chair:)
09:05	Nanocatalyst systems for electrochemical upgrading of ubiquitous chemicals Miho Yamauchi <i>Kyushu University, Japan</i>
09:40	Metal Halide Perovskites for Photovoltaic Applications Laura Herz <i>University of Oxford, UK</i>
10:15	Organic Materials at Interfaces for Highly Efficient Perovskite Photovoltaics Atsushi Wakamiya <i>Kyoto University, Japan</i>
10:50	Title TBC Libby Gibson <i>Newcastle University</i>
11:25	Refreshments (Session chair:)
11:55	The Chemistry of Self-Assembling molecules as Selective Contacts in Molecular Solar cells Emilio Palomares <i>ICIQ, Spain</i>
12:30	Design of advanced electrode materials for Na-ion battery Yan Yu <i>USTC, China</i>
13:05	Lunch (and photo)
14:15	Publishing session (Session chair:)
15:15	Title TBC Francesca Brunetti <i>University of Rome, Italy</i>
15:50	Light-driven proton-coupled electron transfer reactions at functionalized silicon photoelectrodes for solar fuel production Jillian Dempsey <i>UNC Chapel Hill, USA</i>
16:25	Poster prizes and concluding remarks
16:45	Close of sessions