



# Frontiers of catalysis and photocatalysis for energy chemistry

Programme 23 January 2019, Tokyo, Japan

10:00		Opening Remark by the Royal Society of Chemistry
10:10	Kazuhiro Takanabe <i>The University Tokyo, Japan</i>	Quantitative approach for studying photocatalytic water splitting
10:50	Keigo Kamata <i>Tokyo Institute Technology, Japan</i>	Development of Crystalline Mixed Oxide Catalysts Based on Perovskite Oxides and Metal Phosphates
11:10	James Durrant <i>Imperial College London, UK</i>	In operando spectroelectrochemical studies of water oxidation kinetics on metal oxide electrodes and photoelectrodes
11:50		Speaker Lunch
12:50	Kyung-byung Yoon <i>Sogang University, South Korea</i>	Pilot Scale Artificial Cactus
13:30	Shuhei Ogo <i>Waseda University, Japan</i>	Low-temperature Catalytic Oxidative Coupling of Methane by Electron Hopping in an Electric Field
13:50	Jinhua Ye <i>National Institute for Materials Science, Japan</i>	Rational Design and Engineering of Active Sites for Efficient Solar Fuel Production
14:30		Coffee Break
14:50	Osamu Ishitani <i>Tokyo Institute Technology, Japan</i>	New Directions to Development of Photocatalytic CO <sub>2</sub> Reduction
15:30	Kazunari Nakajima <i>The University Tokyo, Japan</i>	Photocatalytic C-C bond cleavage of dihydropyridines toward alkylation reactions
15:50	Magda Titirici <i>Imperial College London, UK</i>	The secret life of carbon in electro-and photocatalysis
16:30		Coffee Break
16:50	Keiichi Tomishige <i>Tohoku University, Japan</i>	Deoxydehydration of sugars and sugar alcohols catalyzed by heterogeneous ReOx catalysts for the selective production of biomass-derived chemicals
17:30	Katie Lim <i>Royal Society of Chemistry, UK</i>	Insights from an Editor: Publishing your energy research with the Royal Society of Chemistry
18:00		Closing Remark by the Host