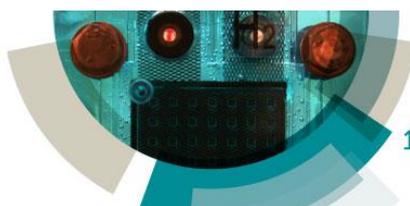


MANA-RSC symposium:  
Materials for Energy  
Generation and Storage



15-16 October 2015  
Tsukuba, Japan

**Thursday 15 October**

09:00	Registration, Tea and Coffee	
09:45	<b>Welcome and Introductions</b> Hiromitsu Urakami, <i>Royal Society of Chemistry</i>	
	<b>Energy Generation</b> Session Chair: Katsuhiko Ariga, <i>MANA – NIMS, Japan</i>	
10:00	<b>High Efficient Perovskite Solar cells</b> <u>Liyuan Han</u> <i>NIMS, Japan</i>	
10:40	<b>Electrocatalyst Design Principles – Learning from Enzymes</b> <u>Fraser Armstrong</u> <i>University of Oxford, United Kingdom</i>	
11:20	Break	
	<b>Energy Generation continued</b> Session Chair: Liyuan Han	
11:35	<b>Reactivity and local electronic structure of N-doped graphitic carbons</b> Riku Sibuya, Guo, Takahiro Kondo and <u>Junji Nakamura</u> <i>University of Tsukuba, Japan</i>	
12:15	<b>Current Status and Future Prospect of CIS-based Thin-film PV Technology</b> <u>Katsumi Kushiya</u> <i>Solar Frontier K.K., Japan</i>	
12:55	Lunch	
13:55	<b>Poster session – ODD numbered posters</b>	
	<b>Energy Generation continued</b> Session Chair: Tatsuya Nabeshima	
14:55	<b>Nitrogen-doped carbons: from model studies to high performing materials</b> <u>Svitlana Pylypenko</u> <i>Colorado School of Mines, USA</i>	
15:35	<b>Enzymatic biofuel cell based on porous carbon materials</b> <u>Seiya Tsujimura</u> <i>University of Tsukuba, Japan</i>	
16:15	Break	
	<b>Energy Generation continued</b> Session Chair: Hiromitsu Urakami	
16:30	<b>How can we get through the bottle neck in Artificial Photosynthesis? :An Alternative Route of Water Oxidation</b> <u>Haruo Inoue</u> <i>Tokyo Metropolitan University, Japan</i>	
17:10	<b>Poster session and drinks reception</b>	
18:40	Close	

**Friday 16 October**

09:00	Registration, Tea and Coffee	
	<b>Energy Storage</b> Session Chair: Fiona McKenzie	
10:00	<b>Fundamental Studies on Electrochemical Oxygen Reduction Reactions in Aqueous and Non-aqueous Solutions</b> <u>Kohei Uosaki</u> <i>MANA - NIMS, Japan</i>	
10:40	<b>Supercapacitor energy storage based on hybrid nanomaterials</b> <u>Pooi See Lee</u> <i>Nanyang Technological University, Singapore</i>	
11:20	Break	
	<b>Energy Storage Continued</b> Session Chair: Masaru Aoyagi	
11:35	<b>Metal-Organic Frameworks as Platforms for Energy Generation and Storage</b> <u>Qiang Xu</u> <i>AIST, Japan</i>	
12:15	<b>Publishing your materials research with the Royal Society of Chemistry</b> Fiona McKenzie <i>Royal Society of Chemistry</i>	
12:45	Lunch	
13:45	<b>Poster session – EVEN numbered posters</b>	
	<b>Energy Storage Continued</b> Session Chair: Kohei Uosaki	
14:45	<b>DFT samplings reveal atomistic mechanisms in electrolyte and at electrode interface in Li-ion battery</b> <u>Yoshitaka Tateyama</u> <i>MANA - NIMS, Japan</i>	
15:25	<b>Development of perovskite oxides for advanced gas separation, electrochemical energy conversion and storage, and environmental treatment</b> <u>Zongping Shao</u> <i>Nanjing Tech University, China</i>	
16:05	Break	
	<b>Energy Storage Continued</b> Session Chair: Yoshitaka Tateyama	
16:20	<b>TBC</b> <u>Yasuhiro Harada</u> <i>Toshiba Corporation, Japan</i>	
17:00	<b>Developing Post Lithium-ion Batteries: Na-ion, Li-S, and Li-Air Batteries</b> <u>Haoshen Zhou</u> <i>AIST, Japan</i>	
17:40	<b>Prize giving and Closing Remarks</b> Katsuhiko Ariga, <i>MANA – NIMS, Japan</i>	
17:40	Close	

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](mailto:events@rsc.org). Please note that this is a draft programme and timings may

change.