

| Time               | Title  |
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| <b>9:45- 9:50</b>  | <b>Opening Remarks</b><br>Kazuhito Hashimoto 橋本 和仁<br>President, NIMS  |
| <b>9:50-9:55</b>   | <b>Greeting</b><br>Yasushi Saito 齊藤 康志<br>Director, Materials Science and Nanotechnology Development Division<br>Research Promotion Bureau, Ministry of Education, Culture,<br>Sports, Science and Technology (MEXT)                                   |
| <b>9:55-10:00</b>  | <b>Greeting</b><br>Masahi Furukawa 古川 雅士<br>Manager, Department of Research Project, Japan Science and Technology<br>Agency (JST) / Program Officer of GREEN   |
| <b>10:00-10:25</b> | <b>Design of functional interfaces in Intermediate Temperature Solid Oxide Fuel Cells (SOFCs) of NIMS</b><br>Toshiyuki Mori 森 利之<br>GREEN Leader, Solid Oxide Fuel Cell Materials Design Group, GREEN  |
| <b>10:25-10:50</b> | <b>in situ observation of intermediate species of oxygen reduction reaction and future perspective of interfacial analysis techniques</b><br>Takuya Masuda 増田 卓也<br>GREEN Leader, Surface Solid/Liquid Interface Analysis Group, GREEN                 |
| <b>10:50-11:30</b> | <b>Li Metal Anode for Next Generation Batteries (Invited)</b><br><b>Prof. Kiyoshi Kanamura 金村 聖志</b><br><b>Professor; Tokyo Metropolitan University /</b><br><b>GREEN Leader, Interface-Controlled Battery Materials Group, GREEN</b>                  |
| <b>11:30-12:10</b> | <b>Strategies for Next Generation High Energy Batteries (Invited)</b><br><b>Prof. Jun Liu</b><br><b>Director, Battery500 Consortium, USA</b>   |
| <b>12:10-12:35</b> | <b>High-throughput combinatorial screening of multi-component electrolyte additives to improve the performance of Li metal secondary batteries</b><br>Shoichi Matsuda 松田 翔一<br>Researcher; Lithium Air Battery Specially Promoted Research Team, GREEN |
| <b>12:35-13:50</b> | <b>Poster Presentation &amp; Lunch</b>   |
| <b>13:50-14:10</b> | <b>Recombination routes of the free carriers in Perovskite solar cells revealed by Impedance Spectroscopy</b><br>Yasuhiro Shirai 白井 康裕<br>GREEN Leader; Ad hoc Team on Perovskite PC Cells, GREEN  |
| <b>14:10-14:30</b> | <b>Co-additive Engineering of Perovskite layer for Efficient and Stable Sn Perovskite Solar Cells</b><br>Ashraful Islam<br>Chief Researcher, Photovoltaic Materials Group, Center for Green Research on Energy and Environmental Materials, NIMS       |

| Time        | Title   |
|-------------|---|
| 14:30-15:10 | <b>Evolution of Efficient and Stable Perovskite Solar Cells (Invited)</b><br><b>Prof. Sang Il Seok</b><br>Distinguished Professor,<br>Ulsan National Institute of Science and Technology, Korea   |
| 15:10-15:25 | Coffee Break  |
| 15:25-16:05 | <b>Solid State electrolytes for Lithium Batteries, Materials, Synthesis and Applications (Invited)</b><br><b>Prof. Zhaoyin Wen</b><br>Professor, Chinese Academy of Science   |
| 16:05-16:30 | Research development of all solid-state batteries by using thin film technology<br>Tsuyoshi Ohnishi 大西 剛<br>GREEN Leader, All Solid State Battery Specially Promoted Research Team, GREEN   |
| 16:30-17:00 | <b>Theoretically inspired new catalyst: boron nitride with gold (Invited)</b><br><b>Prof. Tetsuya Taketsugu 武次 徹也</b><br>Professor, Hokkaido University /<br><b>GREEN Leader, Electrocatalysis Theory Group, GREEN</b>                      |
| 17:00-17:30 | GREEN 2009 - 2018: Towards Understanding and Control of Interfacial Processes, Common issues in Energy Flow from Solar Energy, Utilizing Computational Science and Advanced Measurements<br>Kohei Uosaki 魚崎 浩平<br>Director-General of GREEN |
| 17:30-19:00 | Poster Presentation & Mixer<br>(at Cafeteria near Auditorium, Namiki site, NIMS)  |

\* Programs are subject to change without notice.