

**Mini-symposium on  
Novel Carbon-Free Cathode Materials for Metal-Air Rechargeable Batteries  
(Supported by JST-SICORP EIG-CONCERT JAPAN)**

**Date:** November 7, 2019 13 : 00~17 : 00

**Venue:** Seminar room at “Frontier Research in Applied Sciences Building”,  
Faculty of Engineering, Hokkaido University

**Program** (tentative)

1. **"About the project “Novel carbon-free cathode materials for metal-air rechargeable batteries”**  
Prof. Kiyoharu TADANAGA/Hokkaido University
  
2. **"A new generation dual electrolyte lithium oxygen flow battery”**  
Prof. Tugrul CETINKAYA/ Sakarya University (Turkey)
  
3. **"Hybrid organic-inorganic solid electrolytes for all-solid-state Li-ion batteries"**  
Dr. Jadra MOSA /Glass and Ceramic Institute (CSIC) (Spain)
  
4. **“ARTISTIC project: Towards a Digital Twin of the Manufacturing Process of Lithium Ion Batteries”**  
Dr. Alain Ngandjong / Université de Picardie Jules Verne (France)
  
5. **“Hydroxide ion conduction in layered double hydroxides and its application to Zn-air battery”**  
Prof. Kiyoharu TADANAGA / Hokkaido University (Japan)
  
6. **(Invited) “Development of all-solid-state Li-air batteries using inorganic solid electrolytes”**  
Dr. Hirokazu KITAURA / National Institute of Advanced Industrial Science and Technology (Japan)
  
7. **(Invited) “Carbon-Free Reversible Air Electrodes with Conductive Oxide for Oxygen Reduction and Evolution Reactions”**  
Dr. Naoko FUJIWARA / National Institute of Advanced Industrial Science and Technology (Japan)

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