MINI-SYMPOSIUM ON Electromaterials and Systems





SEP 29, 2022 YOKOHAMA NATIONAL UNIV. MEDIA HALL

OPENING REMARKS (Masayoshi WATANABE)

- 10:30-11:20 **Keynote: Douglas MacFarlane, Monash University** Electrochemical reduction of N₂ to ammonia at ambient conditions : Fascinating electrochemistry and scale-up potential - ONLINE -
- 11:20-12:00 Invited: Hiroki OTA, YNU Strechable electro-mechanical systems using liquid metals

LUNCH BREAK (12:00-13:00)

- 13:00-13:25 Naoki SHIDA, YNU Electrosynthesis governed by coordination of electrolyte
- 13:25-13:50 **Karolina Matuszek, Monash University** Molecular patterns in the thermophysical propaties of ionic liquids as phase change materials for energy storage in the intermidiate temperature range - ONLINE -
- 13:50-14:15 **Naoki YABUUCHI, YNU** Ordered layered and disordered rocksalt electrode materials for Li storage applications
- 14:15-14:40 **Kaoru DOKKO, YNU** Li-ion conduction in solvate electrolytes

COFFEE BREAK (14:40-15:10)

15:10-15:35 Yoshiyuki KURODA, YNU

Design of metal hydroxide-based nanomaterials as highly active and durable electrode for alkaline water electrolysis

Early Carrier Session

15:35-15:50 Ashraf Abdel Haleem, YNU

Renewable energy-powered bipolar alkaline water electrolyzers : reverse current phenomenon and accelerated durability test

15:50-16:05 Shinji KONDOU, YNU

lon transport of weakly coordinating polyanions in nonaqueous solvents and their application in secondary batteries

16:05-16:30 Arnab Ghosh, YNU

Challenges of practical lithium-sulfur battery pouch cells and plausible mitigation strategies





Associate Professor

Yokohama National University



Douglas MacFarlane Distinguished Professor Monash University

Prof. Masayoshi WATANABE, ACERC director

We are pleased to announce that the Advanced Chemical Energy Research Center (ACERC), Yokohama National University (YNU) will host a mini-symposium on "Electromaterials and Systems" on September 29th, 2022. The goal of ACERC is the advancement of chemical energy research and technology, including efficient conversion of chemical energy into electrical energy for practical applications and the reversal of electrical energy into chemical energy for storage and transportation. The ACERC will organize this minisymposium as an international outreach activity of our center. The number of participants who may physically attend the mini-symposium is restricted due to the COVID-19 pandemic. Active participants will be considered on the basis of early bird registration.

Karolina Matuszek Dr., Research Fellow Monash University



https://acerc.ynu.ac.jp

visit here for registration >>>

