

THE UNIVERSITY OF  
SYDNEY

Yonsei Frontier Lab



# Yonsei-USYD Virtual Research Roundtable

## On "Functional Energy Materials"

- SDG 7, 9, 12 -

**DATE** | 27 November 2020 9:00am ~ 11:35am Seoul  
11:00am ~ 13:35pm Sydney

**PLACE** | Online (ZOOM)

**Registration** | <https://forms.gle/ZspffBH9CMEDffmP7>

**HOST** | Yonsei Frontier Lab, Dept. of Chemistry at Yonsei University,  
The University of Sydney

### Yonsei University (Dept. of Chemistry)

| Chairman |



Prof. Jinsung Tae  
(Dean, Dept. of Chemistry)

| Speaker |



Prof. Moonhyun Oh

TOPIC | Hybrid Metal-Organic Frameworks  
and Efficient Catalysts for Oxygen  
Reduction Reaction



Prof. Dongil Lee

TOPIC | Electrocatalytic CO<sub>2</sub> Conversion  
on Metal Nanoclusters



Prof. Byeong-Su Kim

TOPIC | Designer Carbon Nanodots:  
Synthesis and Applications in Energy



Prof. Hyun Su Ahn

TOPIC | Ruthenium-based Trimetallic  $\mu$ -oxo  
Cluster Compounds and Their  
Application in Redox Flow Batteries

### The University of Sydney (School of Chemistry)

| Chairman |



Prof. Philip Gale  
(Head, School of Chemistry)

| Speaker |



Prof. Chris Ling

TOPIC | In situ/operando X-ray and neutron  
scattering studies of high-voltage  
solid-state battery materials at high  
voltage.



Prof. Brendan Kennedy

TOPIC | Beyond Batteries. Uncoupling local  
and long-range structures  
in complex oxides.



Prof. Deanna D'Alessandro

TOPIC | Harnessing Electroactivity in  
Coordination Frameworks



Dr. Lauren Macreadie

TOPIC | Functional MOF materials for  
hydrocarbon separations for  
hydrogen delivery applications