The 99th GREEN Seminar



Design and development of highperformance catalysts based on nanostructure control of complex oxides Chair: Dr. Ken Sakaushi (GREEN)

Prof. Keigo Kamata

(Tokyo Institute of Technology)

We develop efficient heterogeneous catalystic systems based on the unique redox and acid-base properties of complex oxides due to their diverse compositions and crystal structures. In this presentation, we will show catalyst design focusing on the crystal structures of various complex oxides such as perovskites, manganese oxides, and metal phosphates. In addition, our synthesis methods of complex oxide nanoparticles and their catalytic application to several reactions such as difficult selective oxidation using only O2, biomonomer synthesis, one-pot synthesis, direct CH4 conversion, and water electrolysis will be introduced.

Venue: Auditorium, 1F, WPI-MANA Bldg., Namiki-site
Date: Thursday, February 29th, 2024
Time: 13:30-14:30
Language: English
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