S1-1 Carbon-Neutral Technologies: Photovoltaics, Photocatalysts, CCUS, and Materials Recycling

SHORT DESCRIPTION:

With the growing global interest in achieving carbon neutrality, various research and development efforts are underway in the ceramics field. While aiming to reduce greenhouse gas emissions from ceramics manufacturing, various ceramic products also contribute to the realization of a carbon-neutral society. Therefore, this symposium will mainly focus on ceramic materials for the reduction of greenhouse gas emissions, efficient low-carbon energy supply (including photovoltaics), material recycling, and carbon capture, utilization and storage (CCUS) approaches for achieving this goal. The main objective of this symposium is to foster collaboration and knowledge sharing among industry, academia, and government within the ceramics field to realize of a carbon-neutral society.

SESSION TOPICS:

- · Ceramics for Carbon Capture, Utilization and Storage (CCUS)
- · Material recycling and chemical recycling of ceramics
- Photovoltaic and Photocatalyst
- · Ceramics for enhancing energy efficiency

ORGANIZERS:

Kiyoharu Tadanaga, Hokkaido University, Japan

Shinobu Fujihara, Keio University, Japan

Nataly Carolina Rosero-Navarro, Instituto de Cerámica y Vidrio, CSIC, Spain

Ryosuke Nakazato, National Institute of Advanced Industrial Science and Technology, Japan

Yuta Fujii, Hokkaido University, Japan