

S5-1 Ceramics for environmental purification and environmental conservation

SHORT DESCRIPTION:

Environmental problems such as global warming and air and water pollution are becoming more diverse and serious. At the same time, we must consider securing and recycling resources. For example, the conservation of the air and water environments, which are essential for our lives, and the recovery and reuse of resources from large amounts of waste are worldwide important issues. Thus, further development of functional ceramic materials has to be achieved as one of the measures to build a sustainable society. This session will provide a forum for worldwide researchers to exchange and discuss research results related to environmental ceramic science (e.g. air and water purification adsorbents, anti-fouling and self-cleaning material, high-performance catalysts/photocatalysts, waste recycling process etc.). The topics covered in this session are related to the Sustainable Development Goals (SDGs), (6) Clean water and sanitation and (15) Life on land. This session aims to contribute to the development of the environmental ceramic materials field.

SESSION TOPICS:

- ☐ Environmental purification
- ☐ Adsorbent
- ☐ Separation filter
- ☐ Ion-exchange material
- ☐ Catalyst and photocatalyst
- ☐ Anti-fouling and self-cleaning material
- ☐ Resource circulation and waste recycling

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