

**OS1: The Second International Symposium on Integrated Flow Science I & III
Advanced Materials and its Energy Application
&
Multiphase Energy Science and Technology (Combination of Monozukuri-Fluid
Science / Engineering)**

November 18, 2024

EX-1

- | | |
|----------------------|--|
| OS1-1
13:10-13:30 | Non-steady CFD Analysis of Gas-liquid Mixing of Non-Newtonian Fermentation of Filamentous Fungi
<u>Shunya Susukida</u> , Kiyoaki Muto, Ken Miyazawa (Tohoku University, Japan), Akira Yoshimi (Kyoto University, Japan), Yoshikazu Kato (Satake Multimix Corporation, Japan), Jun Ishimoto, Keietsu Abe (Tohoku University, Japan) |
| OS1-2
13:30-13:50 | Numerical Investigation on a Hematite Pellet Reduced by CO-H₂ Mixtures
<u>Xin-Wen Yang</u> , Sheng-Yen Hsu (National Sun Yat-sen University, Taiwan), Ping-Ben Liu (National Pingtung University of Science and Technology, Taiwan) |
| OS1-3
13:50-14:10 | Investigation of Positive Electrode Material in Solid Oxide Fuel Cells for Emission Reduction
<u>Aliza M. Willsey</u> , Thomas S. Welles, Jeongmin Ahn (Syracuse University, USA) |
| OS1-4
14:10-14:30 | Investigation of the Effects of Long-Term Direct-Ammonia Operation on Solid Oxide Fuel Cells
<u>Cole Wilhelm</u> , Jeongmin Ahn (Syracuse University, USA) |
| OS1-5
14:50-15:10 | Metal-Doped Biomass Derived Carbon Material for Energy Storage Application
<u>Kassidy Fields</u> , Scott Erdman, Jeongmin Ahn (Syracuse University, USA) |
| OS1-6
15:10-15:30 | The Effect of Wind Direction on the Smoldering Spread of Incense Sticks
<u>Pichayaporn Viriya-amornkij</u> , Kazunori Kuwana (Tokyo University of Science, Japan), Yunzhu Qin, Xinyan Huang (The Hong Kong Polytechnic University, Hong Kong, China) |
| OS1-7
15:30-15:50 | Geometric Effect on the Aerodynamics of a Spinning Hollow Cylinder in Flight
<u>Kotaro Oguchi</u> , Daiki Tanaka (Doshisha University, Japan), Masami Nakano, Jun Ishimoto (Tohoku University, Japan), Takahiro Adachi (Akita University, Japan), Katsuya Hirata (Doshisha University, Japan) |
| OS1-8
16:30-16:50 | Dehumidification in the Heat Exchanger of an EECS in Ground Parked Condition
<u>Naoki Tomiyama</u> , Kana Akinaga, Takahiro Adachi (Akita University, Japan) |
| OS1-9
16:50-17:10 | Atomization Process of Planar Air-blast Atomizer
<u>Ippei Oshima</u> (Tohoku University, Japan), Akira Sou (Kobe University, Japan) |