

Oral Presentation

- 1 Collective motion in Ising-type Vicsek model**

Kazuya Ishibashi, Hidetsugu Sakaguchi

Interdisciplinary Graduate School of Engineering Science, Kyushu University

1
- 2 Production of Fuel Pellet and Coke from Heavy Oil and Bio-char Mixture of Various Blending Ratios**

Aditya Wibawa, Xiangpeng Gao, Jun-ichiro Hayashi

Interdisciplinary Graduate School of Engineering, Kyushu University
School of Engineering and Information Technology, Murdoch University

5
- 3 Deep Learning-Based Estimation of Whitecap Coverage on the Ocean Surface**

Yukun WANG, Yuji SUGIHARA, Osama ELJAMAL

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
Green Asia Education Center, Kyushu University
Faculty of Engineering Sciences, Kyushu University

9
- 4 The exergy investigation of a R410a mechanical vapor compression chiller for residential cooling**

Uthpala Perera, Nobuo Takata, Takahiko Miyazaki, Yukihiro Higashi, Kyaw Thu

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
Green Asia Education Center, Kyushu University
Research Center for Next Generation Refrigerant Properties (NEXT-RP) I2CNER-WPI, Kyushu University

11
- 5 Numerical Investigation of the Effects of Surface Shear Stress and Thermal Stratification on Surface Divergence in Open-Channel Flow**

SungJin Kim, Yuji Sugihara, Osama Eljamal

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
Faculty of Engineering Sciences, Kyushu University

17
- 6 Metal Organic Frameworks for Atmospheric Water Harvester**

Tahmid Hasan Rupam, M. L. Palash, Bidyut Baran Saha

Kyushu University Program for Leading Graduate School, Green Asia Education Center
International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University
Mechanical Engineering Department, Kyushu University

19
- 7 Catalytic properties of Pd/CeO₂ and Pd-Cu/CeO₂**

Saki Shigenobu, Hajime Hojo, Hisahiro Einaga

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
Faculty of Engineering Sciences, Kyushu University

23
- 8 Measuring Multiphoton Absorption Spectra with Thermal Lens Detection under A Crossed-Beam Configuration**

Aira Kamito, Miki Isoda, Akira Harata

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University

25

- 9 **Surface Study of Aluminum Films Grown by Atomic Layer Deposition
for Superconducting Tunnel Junction** 27
Sameh Okasha, Yuichi Harada
Global Innovation Center, Kyushu University
Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
- 10 **Clinical Application of CT-image Based Finite Element Method Combined with
Machine Learning to Assessment of Bone Fracture** 31
Shun Wu, Todo Mitsugu
Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
Research Institute for Applied Mechanics, Kyushu University
- 11 **Electronic structure of ferric doped montmorillonite and its application to
photocatalytic reduction of chromate** 33
Li Zhang, Chitiphon Chuaicham, Keiko Sasaki
Faculty of Engineering, Kyushu University