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Invited lecture

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 Research on solar energy systems in buildings

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 Xiaoqiang Zhai

 Institute of Refrigeration and Cryogenics, Shanghai Jiao Tong University

L-02 Improvement of anode performance in a direct coal fuel cell

- (p. 2) Raihan Choudhury, Chengguo Li, Ahyun Gang, and <u>Donggeun Lee</u> School of Mechanical Engineering, Pusan National University
- L-03 Advanced Application of Heavy Metals-laden Biochar after Wastewater Treatment for Supercapacitors
- (p. 3) Yifan Wang, Xiaoyun Xu, <u>Xinde Cao</u> School of Environmental Science and Engineering, Shanghai Jiao Tong University

Poster presentation

- P-01 Synthesis and Helical Twisting Power of (R)-6,6'-Harogenated and -Methylated Binaphthyl Type Chiral Dopants
- (pp. 4-5) <u>Yu Narazaki</u>,¹ Hiroya Nishikawa,² Hiroki Higuchi², Yasushi Okumura² and Hirotsugu Kikuchi² ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Institute for Materials Chemistry and Engineering, Kyushu University

P-02 Coupling the detailed chemical kinetic models of primary and secondary pyrolysis of lignin

- (pp. 6-7) <u>Yuki Furutani</u>¹ ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
- P-03 Energy Balance Development for RF-induced Plasma Breakdown in QUEST

(pp. 8-9) <u>R. YONEDA¹</u> and K. HANADA² ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Research Institute of Applied Mechanics, Kyushu University

P-04 Wave Energy Resource Assessment around Kyushu based on Numerical Hindcast

(pp. 10-13) <u>Tomoaki Hirakawa</u> IGSES, Kyushu University

P-05 Behavior of Sulfate Ion During Formation of Bioscorodite for Arsenite Immobilization

- (pp. 14-15) <u>Masahito Tanaka</u>, Tsuyoshi Hirajima, Keiko Sasaki and Naoko Okibe Department of Earth Resources Engineering, Kyushu University
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- (pp. 16-19) <u>Cheolyong Choi</u>,¹ and Jun-ichiro Hayashi²
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- (pp. 20-21) <u>Ryan Imansyah</u>, Luke Himbele, Shota Oe, Haisong Jiang and Kiichi Hamamoto Interdisciplinary Graduate School of Engineering, Kyushu University
- P-08 Cotton Candy Machine for Efficient Fabrication of Microfiber Vascular Graft
- (pp. 22-23) <u>Azizah Intan Pangesty</u>¹ and Mitsugu Todo² ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Research Institute of Applied Mechanics, Kyushu University

P-09 Friedel–Crafts Reaction of Indoles with Aldehydes Catalyzed by a Scandium-Based Coordination Polymer

(pp. 24-25) <u>Pennapa Tungjratthitikan</u>,¹ and Hiroshi Furuno² ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Green Asia Education Center, Kyushu University

P-10 **Performance investigation of finned tube type adsorber for different fin** specifications

(pp. 26-29) <u>Khanam Marzia^{1,2}</u>, Skander Jribi³, Takahiko Miyazaki^{1,2}, Bidyut Baran Saha², Shigeru Koyama^{1,2}

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P-11 Effect of adsorbent layer height on instantaneous adsorption capacity

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P-12 Classification of Fly Ash based on Physical and Chemical Characterization for The Usage of Acid Mine Drainage Prevention

(pp. 32-37) <u>Sendy Dwiki 1</u> Hideki Shimada,¹ Takashi Sasaoka,¹ Akihiro Hamanaka,¹ Rudy Sayoga Gautama,²and Ginting Jalu Kusuma² ¹Department of Earth Resources Engineering, Faculty of Engineering, Kyushu University ²Institute Technology Bandung

P-13 Epitaxial chemical vapor deposition growth of boron nitride atomic sheet over Cu(111)/sapphire substrate

(pp. 38-39) <u>Yuki Uchida¹</u>, Tasuku Iwaizako¹, Seigi Mizuno¹, Masaharu Tsuji² and Hiroki Ago^{1,3} ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Research and Education Center of Carbon Resources ³Global Innovation Center (GIC), Kyushu University

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(p. 46) <u>Takaya Fujisaki</u>¹, Yasuhiro Takamura², Aleksandar Staykov³, and Hiroshige Matsumoto³ ¹Interdisciplinary Graduate School of Engineering Sciences, Kyushu University ²Department of Hydrogen Energy Systems Graduate School of Engineering, Kyushu University University

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(pp. 53-54) Md. Amirul Islam,^{1,2} Kyaw Thu,^{1,2} Bidyut Baran Saha^{1,3}
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 ³Mechanical Engineering Department, Kyushu University

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(pp. 57-58) Kojo Twum Konadu¹, Keiko Sasaki¹, Kwadwo Osseo-Asare2, Takashi Kaneta³ ¹Kyushu University, Department of Earth Resources Engineering ²Penn State University, Department of Materials Science & Engineering and Department of Energy & Mineral Engineering ³Okayama University, Department of Chemistry

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(pp. 59-60) Santisak Kitjanukit¹, Kenji Takeda², Satoshi Asano², and Naoko Okibe¹
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 ²Hydrometallurgical process development group, Niihama Research Laboratories, Sumitomo Metal Mining Co., Ltd

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(pp. 61-66) <u>Tomy Alvin Rivai</u>,¹ Kotaro Yonezu,1 Syafrizal,² and Koichiro Watanabe¹ ¹Graduate School of Engineering, Kyushu University ²Faculty of Mining and Petroleum Engineering, Bandung Institute of Technology

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- (pp. 71-72) <u>Wei-Chen Wen</u>,¹ Keisuke Yamamoto,¹ Dong Wang¹ and Hiroshi Nakashima² ¹Interdisciplinary Graduate School of Engineering, Kyushu University ²Global Innovation Center, Kyushu University

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(pp. 75-76) <u>Alisa Bannaron</u>,¹Andrew M. Spring,² Shiyoshi Yokoyama³
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 ²Green Asia Education Center, Kyushu University
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P-29 The effect of fibre length on cement/fibre integration and mechanical properties of a DCPD/PLCL injectable composite biomaterial

(pp. 77-82) John Duckworth¹, Mitsugu Todo² ¹Interdisciplinary Graduate School of Engineering, Kyushu University ²Research Institute for Applied Mechanics, Kyushu University

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- (pp. 83-84) <u>Rezwan Ahmed</u>¹, Mohammad Kabiruzzaman¹, Takeshi Nakagawa¹, Seigi Mizuno¹ ¹Department of MMS, Kyushu University

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(pp. 85-88) <u>Ali Yousefian</u>,¹ Naoji Yamamoto¹ and Takahiko Miyazaki^{1,2} ¹Interdisciplinary Graduate School of Engineering, Kyushu University ²Green Asia Education Center, Kyushu University

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(pp. 89-91) <u>M L Palash</u>^{1,2}, Sourav Mitra³, Kyaw Thu^{1,2}, Bidyut Baran Saha^{1,3}
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