

P-A-01

Wet mechanical route to synthesize morphology-controlled NH_4ZnPO_4 and its application for ammonia gas absorption

Tai Hashiba *, Takahiro Kozawa, Makio Naito

Joining and Welding Research Institute, Osaka University, Japan

P-A-02

Evolution of inhomogeneous internal structure in ceramic slurry during drying

~ Approach from operand observation by OCT-TG combined system ~

Hirosa Kuroda*¹, Junichi Tatami², Motoyuki Iijima², Takuma Takahashi³

1 Graduate School of Engineering Science, Yokohama National University, Japan

2 Graduate School of Environment and Information Sciences, Yokohama National University, Japan

3 Kanagawa Institute of Industrial Science and Technology, Japan

P-A-03

Simple and rapid synthesis of metal-organic framework CALF-20 via mechanochemical route for CO_2 capture and separation

Shota Kitai *¹, Shunsuke Tanaka^{1,2}, Miki Sugita³, Takahiko Takewaki³

1 Graduate School of Science and Engineering, Kansai University, Japan

2 Organization for Research and Development of Innovative Science and Technology, Kansai University, Japan

3 Yokohama Research Center, Mitsubishi Chemical Corporation, Japan

P-A-04

Synthesis of PHI type zeolite showing the structural flexibility for CO_2 adsorption

Yuto Higuchi *¹, Shunsuke Tanaka^{1,2,3}

1 Graduate School of Science and Engineering, Kansai University, Japan

2 Department of Chemical, Energy and Environmental Engineering, Kansai University, Japan

3 Organization for Research and Development of Innovative Science and Technology, Kansai University, Japan

P-A-05

Enhancement of photoluminescence intensity of Li-M-Ti-O:Mn^{4+} (M = Ta or Nb) phosphors

Fumiaki Shirakawa*¹, Kai Kameyama¹, Hiromi Nakano²

1 Department of applied chemistry and life science, Toyohashi University of Technology, Japan

2 Cooperative research facility center, Toyohashi University of Technology, Japan

P-A-06

Influence of crystal structure on the photoluminescence property of $\text{Ca}_2(\text{Si, P})\text{O}_4:\text{Ce}^{3+}$ phosphor

Atsushi Higashide*¹, Shota Ando¹, Hiromi Nakano²

1 Department of Applied Chemistry and Life Science, Toyohashi University of Technology, Japan

2 Cooperative Facility Center, Toyohashi University of Technology, Japan

P-A-08

Design of interparticle photo-cross-linkable SiO_2 suspensions having long term stability

Kengo Nishiyama*¹, Junichi Tatami², Motoyuki Iijima²

1 Graduate School of Engineering Science, Yokohama National University, Japan

2 Faculty of Environment and Information Sciences, Yokohama National University, Japan

P-A-09

Rheological properties of concentrated TiO_2 aqueous slurries stabilized by comb-like polymer dispersants with different structures

Fumiya Ito*¹, Takuya Honda², Haruka Komuro², Fumitaka Yoshikawa², Junichi Tatami³, Motoyuki Iijima³

1 Graduate School of Engineering Science, Yokohama National University, Japan

2 NOF Corp., Japan

3 Faculty of Environment and Information Sciences, Yokohama National University, Japan

P-A-10

Design of highly stabilized interparticle photo-cross-linkable o/w Pickering emulsions for shaping porous ceramic materials

Shogo Tsutaki*¹, Junichi Tatami², Motoyuki Iijima²

1 Collage of Engineering Science, Yokohama National University, Japan

2 Faculty of Environment and Information Sciences, Yokohama National University, Japan

P-A-11

Aqueous based interparticle photo-cross-linkable suspensions for fabricating complex structured transparent SiO₂ glass components

Bohua Ma*¹, Junichi Tatami², Motoyuki Iijima²

1 Graduate School of Engineering Science, Yokohama National University, Japan

2 Faculty of Environment and Information Sciences, Yokohama National University, Japan

P-A-12

Predictive simulation of oiling-out in anti-solvent crystallization using a phase-field model

Yuhei Tsugawa*, Mikio Yoshida, Yoshiyuki Shirakawa

Graduate School of Science and Engineering, Doshisha University, Japan

P-A-13

Effect of debinding process on the microstructure and mechanical properties of SiO₂ green bodies prepared from interparticle photo-cross-linkable suspension

Sayaka Yamada*, Junichi Tatami, Motoyuki Iijima

Yokohama National University, Japan

P-A-14

Effects of charged nanoparticles and weak electric field on nanoparticle translocation across cell membranes

Takumi Okamura*¹, Hideya Nakamura¹, Ryuji Kawano², Mahiro Suzuki², Shuji Ohsaki¹, Satoru Watano¹

1 Osaka Metropolitan University, Japan

2 Tokyo University of Agriculture and Technology, Japan

P-A-15

Development of a bonding process of photo-cured SiO₂ green bodies using interparticle photo-cross-linkable suspension

Yuki Hiroshige*, Junichi Tatami, Motoyuki Iijima

Yokohama National University, Japan

P-A-16

Evaluation of dewaxing behavior of alumina green body by a combined OCT/TG/FT-IR system and thermomechanical analysis

Mariko Minami*, Junichi Tatami, Motoyuki Iijima

Yokohama National University

P-A-17

3-dimensional visualization of inhomogeneous structure by in-situ OCT observation during sintering of Al₂O₃ ceramics

Mizuki Izawa*, Junichi Tatami, Motoyuki Iijima

Yokohama National University, Japan

P-A-18

Transparency and photoluminescence of gas-pressure sintered Lu- α -SiAlON:Ce³⁺ ceramics

Kohei Aminaka*¹, Junichi Tatami², Motoyuki Iijima², Takuma Takahashi³

1) Graduate School of Engineering Science, Yokohama National University, Japan

2) Graduate School of Environment and Information Sciences, Yokohama National University, Japan

3) Kanagawa Institute of Industrial Science and Technology, Japan

P-A-19

Amorphization of metal-organic frameworks ZIF-8 and its application to fabrication of gas separation membranes

Hiroto Maruta*¹, Shunsuke Tanaka^{1,2}

1 Graduate School of Science and Engineering, Kansai University, Japan

2 Organization for Research and Development of Innovative Science and Technology, Kansai University, Japan

P-A-20

Simultaneous in-situ observation of changes in internal structure and rheological properties of alumina slurry with increasing temperature using an OCT-rheometer combined system

Miu Nakamura*, Junichi Tatami, Motoyuki Iijima

Yokohama National University, Japan

P-A-21

Investigation of internal structural changes of alumina slurry droplets during freezing through OCT in-situ observation

Riko Yamazaki*¹, Junichi Tatami², Motoyuki Iijima², Shinya Kawaguchi³, Naoki Kondo⁴

1 Graduate School of Engineering Science, Yokohama National University

2 Graduate School of Environment and Information Sciences, Yokohama National University

3 PRECI CO., LTD.

4 National Institute of Advanced Industrial Science and Technology

P-A-22

Size effect of pesticide microparticles on control of Botrytis cinerea

Ichikatsu Matsumoto*, Mikito Tokumaru, Toshiyuki Nomura

Osaka Metropolitan University, Japan

P-A-23

Particle recovery of palladium ions by bioreduction using Escherichia coli

Tohko Asada*, Toshiyuki Nomura

Osaka Metropolitan University, Japan

P-A-24

Dry particle coating process using twin-screw continuous kneader for pharmaceutically-engineered controlled-release microparticles with multi-layer structure

Hideki Ichikawa*¹, Toshinobu Uemura², Tooru Andoh¹, Yoshinobu Fukumori¹

1 Kobe Gakuin University, Japan,

2 Pharma Poly Tech, Inc., Japan

P-A-25

Volume resistivity of AlN ceramics with sintering aid powders having various particle size distributions

Ken Kotsugai*, Junichi Tatami, Motoyuki Iijima

Yokohama National University, Japan

P-B-01

Effect of characteristics of raw powders on crystal orientation of hydroxyapatite by molding under a magnetic field

Yuki Otsuka*¹, Isao Yamamoto², Motoyuki Iijima³, Junichi Tatami³

1 Graduate School of Engineering Science, Yokohama National University

2 Faculty of Engineering, Yokohama National University

3 Faculty of Environment and Information Sciences, Yokohama National University, Japan

P-B-02

Types of ball-milling induced deformation in iron particles

Syunsuke Fujita*¹, Satoshi Motozuka¹, Hisashi Sato²

1 Graduate School of Materials Science and Engineering, Kyushu Institute of Technology, Japan

2 Graduate School of Engineering, Nagoya Institute of Technology, Japan

P-B-03

Effect of solvent dipole on drug-loading capacity of metal–organic frameworks

Kazuki Ohshima*, Shuji Ohsaki, Hideya Nakamura, Satoru Watano

Department of Chemical Engineering, Osaka Metropolitan University, Japan

P-B-04

Hot-melt kneading process for producing composite particles of all-solid-state lithium sulfur batteries

Motoshi Iwao*, Hiromi Miyamoto, Hideya Nakamura, Eiji Hayakawa, Shuji Ohsaki, Satoru Watano

Osaka Metropolitan University, Japan

P-B-05

High piezo response in undoped KNN sintered at low temperature

Lucile Vaschalde*^{1,2}, Encarnación G. Villora¹, Kiyoshi Shimamura^{1,2}

1 National Institute for Materials Science (NIMS), Tsukuba, Japan

2 Graduate School of Advanced Science and Engineering, Waseda University, Japan

P-B-06

Luminescence properties of translucent Ca- α -SiAlON:Eu²⁺ ceramics

Taichi Ito*¹, Junichi Tatami¹, Motoyuki Iijima¹, Takuma takahashi², Masahiro Yokouchi²

1 Yokohama National University, Japan

2 Kanagawa Institute of Industrial Science and Technology, Japan

P-B-07

Strength and deformation of single crystal 8YSZ at particulate scale

Mayuko Muramoto*¹, Junichi Tatami¹, Takuma Takahashi^{1,2}, Tsukaho Yahagi², Hiromi Nakano³, Tatsuki Ohji¹, Motoyuki Iijima¹

1 Yokohama National University, Japan

2 Kanagawa Institute of Industrial Science and Technology, Japan

3 Toyohashi University of Technology, Japan

P-B-08

Denitration characteristics of aqueous metal nitrate solution by microwave heating with carbon nanotube-containing alumina composite ceramic jacket

Tomoomi Segawa*¹, Koichi Kawaguchi¹, Katsunori Ishii¹, Genta Nagakawa², Ayaka Tamaru², Tomonori

Fukasawa², Toru Ishigami², Kunihiro Fukui²

1 Fuel Cycle Design Office, Japan Atomic Energy Agency, Japan

2 Graduate School of Advanced Science and Engineering, Hiroshima University, Japan

P-D-01

Fundamental study of separation of different resin plates bonded by solvent using wire explosion by pulsed discharge

Yoshiki Egawa*¹, Taketoshi Koita², Soowon Lim², Takao Namihira³, Chiharu Tokoro^{2,4}

1 Graduate School of Creative Science and Engineering, Waseda University, Japan

2 Faculty of Science and Engineering, Waseda University, Japan

3 Institute of Industrial Nanomaterials, Kumamoto University, Japan

4 Faculty of Engineering, The University of Tokyo, Japan

P-D-02

Improved photocatalytic performance of visible light-driven BiVO₄ nanoparticles via W and Mo doping

Chien-Yie Tsay*¹, Ching-Yu Chung¹, Chin-Yi Chen¹, Yu-Cheng Chang¹, Jerry J. Wu²

1 Department of Materials Science and Engineering, Feng Chia University, Taiwan

2 Department of Environmental Engineering and Science, Feng Chia University, Taiwan

P-D-03

Understanding high temperature adhesion induced by calcium compounds using model particles

Tsuyoshi Fujimoto*¹, Genki Horiguchi², Yohei Okada³, Hidehiro Kamiya¹

1 Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Japan

2 National Institute of Advanced Industrial Science and Technology, Japan

3 Department of Applied Biological Science, Tokyo University of Agriculture and Technology, Japan

P-D-04

One-step solvothermal synthesis of NiCo-LDH@rGO nanosheets on carbon cloth as an electrode material for supercapacitor applications

Shi-Hao Huang, Chin-Yi Chen*

Department of Materials Science and Engineering, Feng Chia University, Taiwan

P-D-05

Silver recovery from spent photovoltaic panel sheets using high voltage pulse crushing

Yuto Imaizumi*¹, Yutaro Takaya², Taketoshi Koita³, Soowon Lim³, Takao Namihira⁴, Chiharu Tokoro^{2,3}

1 Graduate School of Creative Science and Engineering, Waseda University, Japan

2 Faculty of Engineering, The University of Tokyo, Japan

3 Faculty of Science and Engineering, Waseda University, Japan

4 Institute of Industrial Nanomaterials, Kumamoto University, Japan

P-D-06

Controlling particle adhesion at high temperatures: The use of nanoparticles as additives

Genki Horiguchi*¹, Yohei Okada², Hidehiro Kamiya²

1 National Institute of Advanced Industrial Science and Technology (AIST), Japan

2 Tokyo University of Agriculture and Technology, Japan

P-D-07

In-situ solvothermal deposition of a NiCo-LDH@ZnFe-LDH nanostructure on carbon cloth as a supercapacitor electrode

Shi-Hao Huang*¹, Chien-Yie Tsay¹, Yu-Cheng Chang¹, Chi-Jung Chang², Chin-Yi Chen¹

1 Department of Materials Science and Engineering, Feng Chia University, Taiwan

2 Department of Chemical Engineering, Feng Chia University, Taiwan

P-D-08

Kinetic analysis of mechanical degradation of TBBPA with a planetary ball mill

Yutaro Takaya ^{*1,2}, Yuki Tsunazawa ³, Mauricio Córdova ², Chiharu Tokoro ^{2,1}

1 Faculty of Engineering, The University of Tokyo, Japan

2 Faculty of Science and Engineering, Waseda University, Japan

3 National Institute of Advanced Industrial Science and Technology, Japan

P-D-10

Boosting oxygen evolution reaction of nickel-iron borophosphate by amorphization

Jiseok Kwon*, Seunggun Choi, Myeungwoo Ryu, Taeseup Song, and Ungyu Paik

Department of Energy Engineering Hanyang University, Seoul, Republic of Korea

P-D-11

Nickel oxide nanoparticle-decorated BaCo_{0.4}Fe_{0.4}Zr_{0.1}Y_{0.1}O_{3-δ} composite cathode for high performance protonic ceramic fuel cells

Hyungjun Lee*, Sungmin Kim, Minsung Kim, Taeseup Song, and Ungyu Paik

Department of Energy Engineering, Hanyang University, Seoul, Republic of Korea

P-D-12

The role of al-based additives to control ash adhesion at high temperatures

Tatsuya Okuizumi*¹, Genki Horiguchi², Yohei Okada³, Hidehiro Kamiya¹

1 Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Japan

2 National Institute of Advanced Industrial Science and Technology, Japan

3 Department of Applied Biological Science, Tokyo University of Agriculture and Technology, Japan

P-D-13

Carbon fiber cloth@BiOBr/CuO as immobilized membrane-shaped photocatalyst with enhanced H₂ production activity

Chi-Jung Chang *, Yu-Chieh Kao, Chun-Wen Kang

Department of Chemical Engineering, Feng Chia University, Taiwan, ROC

P-D-14

Effect of tellurite glass addition on microstructure and ionic conductivity of garnet-type solid electrolytes

Kazuki Motoda*, Mitsuaki Matsuoka, Norihiro Murayama

Department of Chemical, Energy and Environmental Engineering, Kansai University, Japan

P-D-15

Study of the application of pulsed discharge to separation and recovery of carbon fiber from laminated CFRP

Keita Sato*¹, Taketoshi Koita², Koji Yamaguchi³, Chiharu Tokoro^{2,4}

1 Graduate School of Creative Science and Engineering, Waseda University, Japan

2 Faculty of Science and Engineering, Waseda University, Japan

3 ACM Technology Department, Toray Industries, Inc., Japan

4 Faculty of Engineering, The University of Tokyo, Japan

P-D-16

Fabrication of g-C₃N₄/TiO₂ layer on ITO glass by electrophoretic deposition

Preyaphat Wongchaiya*^{1,2}, Thi Kim Ngan Nguyen³, Kento Ishii⁴, Pornapa Sujaridworakun¹, Siriporn Larpkiattaworn², Tohru S. Suzuki⁴, Tetsuo Uchikoshi⁴

1 Department of Materials Science, Chulalongkorn University, Thailand

2 Thailand Institute of Scientific and Technological Research, Thailand

3 International Center for Young Scientists, National Institute for Materials Science, Japan

4 Research Center for Functional Materials, National Institute for Materials Science, Japan

P-E-01

A new analytical method for polydisperse system of submicron-sized particles

Kentaro Osawa^{*1,2}, Yumiko Anzai², Mariko Umeda², Hiroyuki Minemura², Masami Yokoyama³, Ayano Fukuhara³, Susumu Uchiyama^{3,4}

1 Analytical & Medical Solution Business Group, Hitachi High-Tech Corporation, Japan

2 Research & Development Group, Hitachi, Ltd., Japan

3 U-Medico Inc., Japan

4 Graduate School of Engineering, Osaka University, Japan

P-E-02

Specific heat capacity measurement of composite materials for thermal insulation by differential scanning calorimeter

Haruka Abe^{*1}, Megumi Akoshima¹, Akira Kondo², Makio Naito²

1 National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technology, Japan

2 Joining and Welding Research Institute, Osaka University, Japan

P-E-03

Research of structural phase transition of SiO₂ particles by differential scanning calorimeter

Haruka Abe^{*}

National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technology, Japan

P-E-04

Preparation and optical properties of zinc oxide-octahedral molybdenum metal cluster nanocomposite coatings

Irem Nur Gamze Ozbilgin^{*1,2}, Thi Kim Ngan Nguyen^{2,3}, Tetsuo Uchikoshi^{1,2}, Noée Dumait⁴, Fabien Grasset^{2,4}, Stéphane Cordier⁴

1 Research Center for Functional Materials, National Institute for Materials Science (NIMS), Japan

2 CNRS-Saint-Gobain-NIMS, IRL 3629-LINK, National Institute for Materials Science, Japan

3 International Center for Young Scientists (ICYS), National Institute for Materials Science, Japan

4 Univ. Rennes-CNRS-Institut des Sciences Chimiques de Rennes (ISCS), UMR6226, France

P-E-05

Gadolinium neutron capture therapy as a new treatment for head and neck cancer: tumor-killing effects on a masseter muscle invasion model

T. Andoh¹, M. Matsumoto¹, R. Azuma¹, Y. Nagashige¹, T. Fujimoto², M. Suzuki³, T. Takata⁴, Y. Sakurai⁴, H. Ichikawa^{*1}

1 Faculty of Pharmaceutical Sciences, Kobe Gakuin University, Japan

2 Department of Orthopaedic Surgery, Hyogo Cancer Center, Japan

3 Particle Radiation Oncology Research Center, Institute for Integrated Radiation and Nuclear Science, Kyoto University, Japan

4 Division of Radiation Life Science, Institute for Integrated Radiation and Nuclear Science, Kyoto University, Japan

P-E-06

Dielectric properties of SiO₂-Al₂O₃-Na₂O-CaO-K₂O glass system in the millimeter-wave frequency range of 20-60 GHz

Ting-Lu Tuan^{*1}, Sea-Fue Wang²

1 Institute of Mineral Resources Engineering, National Taipei University of Technology

2 Department of Materials and Mineral Resources Engineering, National Taipei University of Technology

P-E-07

Crystal orientation dependence of mechanical properties of β -Si₃N₄ grains in high thermal conductive silicon nitride ceramics measured using microcantilever beam specimens

Mami Tanabe*¹, Junichi Tatami¹, Motoyuki Iijima¹, Tatsuki Ohji¹, Tsukahara Yahagi², Takuma Takahashi², Daichi Minami², Hiromi Nakano³

1 Yokohama National University, Japan,

2 Kanagawa Institute of Industrial Science and Technology, Japan,

3 Toyohashi University of Technology, Japan

P-E-08

Al/Cu Interface analysis of ceramic nanoparticle reinforced Al brazing filler

Sri Harini Rajendran*¹, Do Hyun Jung^{1,2}, Jae Pil Jung¹

1 Department of Materials Science and Engineering, University of Seoul, Korea

2 Lightweight New Materials Technology Center, Korea

P-E-09

Microstructure and mechanical properties of Sn-Bi solder reinforced with SnO₂ nanoparticles

Jiwan Kang¹, Heeyoung Maeng¹, Sri Harini Rajendran², Jae Pil Jung*²

1 Department of Mechanical Design and Robot Engineering, Seoul National University of Science and Technology, Rep. of Korea

2 Department of Materials Science and Engineering, University of Seoul, Rep. of Korea"

P-F-01

Microstructure optimization for the face mask performance by CFD-DPM model

Ika Y. Rachmawati*, Kodai Hada, Mohammadreza Shirzadi, Tomonori Fukasawa, Kunihiko Fukui, Toru Ishigami

Hiroshima University, Japan

P-F-02

A novel coarse grain modeling for the adhesion force based on the liquid bridge force and the JKR theory in the discrete element method

Yoshihiro Kosaku*¹, Yuki Tsunazawa², Chiharu Tokoro^{3,4}

1 Graduate School of Creative Science and Engineering, Waseda University, Japan

2 Mineral Resources Research Group, Institute for Geo-Resources and Environment, Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology, Japan

3 Faculty of Science and Engineering, Waseda University, Japan

4 Faculty of Engineering, The University of Tokyo, Japan

P-F-03

Nanoparticle translocation across lipid bilayer containing cholesterols

Masaya Tajima*, Hideya Nakamura, Shuji Ohsaki, Satoru Watano

Department of Chemical Engineering, Osaka Metropolitan University, Japan

P-F-04

Shear thickening mechanism analysis of concentrated slurry by Coupled DEM and CFD simulation

Daiki Hiruta*¹, Kizuku Kushimoto², Shingo Ishihara², Junya Kano²

1 Graduate School of Environmental Studies, Tohoku University, Japan

2 Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University, Japan

P-F-05

Prediction of the milling speed under highly viscous condition with DEM simulation

Takuya Suzuki*¹, Kizuku Kushimoto², Shingo Ishihara², Junya Kano²

1 Graduate School of Environmental Studies, Tohoku University, Japan

2 Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University, Japan

P-F-06

Nanoparticle translocation across cell membrane by applying electric field: Effect of particle size
Akane Mizooku*, Hideya Nakamura, Shuji Ohsaki, Satoru Watano
Department of Chemical Engineering, Osaka Metropolitan University, Japan

P-F-07

Quantitative analysis of powder mixing mechanisms in dem simulations by a POD-ANOVA-based approach
Qi Shi *¹, Mikio Sakai²
1 Department of Nuclear Engineering and Management, School of Engineering, The University of Tokyo, Japan
2 Resilience Engineering Research Center, School of Engineering, The University of Tokyo, Japan

P-F-08

Validation study on a coarse grained DEM-CFD for a three phase flow system
Rui Li*¹, Daisuke Yamada², Mikio Sakai^{1,2}
1 Department of Nuclear Engineering and Management, The University of Tokyo, Japan
2 Resilience Engineering Research Center, The University of Tokyo, Japan

P-F-09

DEM study on powder mixing for non-spherical particles in a container blender
Keita Kyoya*¹, Guangtao Duan², Mikio Sakai³
1) Faculty of Engineering, The University of Tokyo, Japan
2) Department of Nuclear Engineering and Management, The University of Tokyo, Japan
3) Resilience Engineering Research Center, The University of Tokyo, Japan

P-F-10

Boosting a large-scale SPH particle methods using many GPUs, including inter-node communications
Haruki Osaki*¹, Daniel Morikawa², Mitsuteru Asai¹
1 Graduate School of Civil Engineering, Kyushu University, Japan,
2 Center for Mathematical Science and Advanced Technology, JAMSTEC, Japan

P-F-11

High-order SPH method with spatial second-order accuracy for derivative operator
Shujiro Fujioka*, Kumpei Tsuji, Mitsuteru Asai
Graduate School of Civil Engineering, Kyushu University, Japan

P-F-12

Modified gradient and Laplacian models in the SPH method to improve accuracy including negative pressure regions
Yusuke Saeiki*, Kumpei Tsuji, Mitsuteru Asai
Kyushu University, Japan

P-F-13

DEM-CFD Study for the Density-Segregation in Vibrated-Fluidized Bed close to the Minimum Fluidization Velocity
Yu Nogami*¹, Zhaohua Jiang¹, Takuya Tsuji¹, Jun Oshitani², Kimiaki Washino¹, Toshitsugu Tanaka¹
1 Osaka University, Japan
2 Okayama University of Science, Japan