

INDEX TO JOURNAL OF CHEMICAL ENGINEERING OF JAPAN, VOL. 53 (2020)

SUBJECTS

- | | |
|---|---|
| 1. Physical Properties and Physical Chemistry | 8. Biochemical, Food and Medical Engineering |
| 2. Transport Phenomena and Fluid Engineering | 9. Micro and Nano Systems |
| 3. Particle Engineering | 10. Materials Engineering and Interfacial Phenomena |
| 4. Separation Engineering | 11. Energy |
| 5. Thermal Engineering | 12. Environment |
| 6. Chemical Reaction Engineering | 13. Engineering Education |
| 7. Process Systems Engineering and Safety | 14. General Research and Others |

1. Physical Properties and Physical Chemistry

- Studies of Phase Equilibria in Ternary KBr–SrBr₂–H₂O and NaBr–SrBr₂–H₂O Systems at 308 K—Chao Ye, Yun-Yun Gao, Shi-Hua Sang, Pei-Huan Jiang, Qi Ge (5) **183**
- Solid–Liquid Equilibria of KCl in Polyethylene Glycol 6000–H₂O Mixed Solvent at 288.2, 298.2, and 308.2 K: Experiment and Correlation—Xudong Yu, Qin Huang, Miangping Zheng, Lin Wang, Maolan Li (6) **229**
- Solubilities and Transformations of Anhydrous and Hydrated Forms of *N*-Acetyl-D-Neuraminic Acid in Water–2-Propanol Solutions—Weiwei Zhu, Lixia Yuan, Xiangsong Chen, Jinyong Wu, Jianming Yao (11) **675**

2. Transport Phenomena and Fluid Engineering

- Module Model and Performance Design in Forward Osmosis System—Shohei Goda, Masaaki Sekino (1) **1**
- The Simulation of Cohesive Particle Agglomeration in a Fluidized Bed Using the Modified KTGF-PBM—Jianxiang Zheng, Ziyu Wang, Zhiheng Shen, Zongqun Wang, Yukai Li, Huaichun Zhou ... (3) **85**
- Experiments on Pressure Distribution of a Low Specific-Speed Centrifugal Pump with Atypical Open Impeller—Yuliang Zhang, Zuchao Zhu, Wenguang Li (6) **237**
- Effects of Process Parameters on Deposition Rate of SiC Nanowires by Chemical Vapor Deposition—Binbin Li, Haiquan Huang, Tao He, Bangxiao Mao, Xingbang Wang (7) **273**
- Turbulence Characteristics of Magnetic Stirring by Dynamic Mode Decomposition—Jie Jin, Ying Fan (9) **463**
- Hydrodynamic and Mass Transfer Correlation in a Microbubble Aerated Stirred Tank Reactor—Simon Matthes, Benjamin Thomas, Daniel Ohde, Marko Hoffmann, Paul Bubenheim, Andreas Liese, Shunya Tanaka, Koichi Terasaka, Michael Schlueter (10) **577**
- Experimental Study on Combustion Chamber Flow Field Using Positron Emission Tomography—Min Zhao, Hao Chen, Min Yao, Ruipeng Guo, Hui Xiao (12) **729**
- Numerical Simulation of the Influence of Bottom Structures on the Flow Field Characteristic in Shaking Bioreactors—Zhiming Lu, Chengtuo Li, Liuyi Huang, Fengping Zhong, Liangqi Fei, Hongliang Zhang, Yuhui Pan (12) **739**
- A Modification of Cartesian Cut-Cell Method for Incompressible Flows with Embed Boundaries—Sayuri Tanaka, Naoki Shimada (12) **747**

3. Particle Engineering

- Analysis of Transient Defluidization Due to Gas Adsorption on Fluidized Particles—Takami Kai, Yuya Taira, Tsutomu Nakazato (1) **10**
- Analytical Study on Turbulent Agglomeration in Turbulence Agglomerator—Jianxiang Zheng, Yukai Li (3) **100**
- Evaluation of Concentrated Seawater Discharge from the Salt Manufacturing Process for the Crystallization of CaMg(CO₃)₂ Using the CO₂ Fine Bubble Technique—Masakazu Matsumoto, Yoshinari Wada, Yuko Tsuchiya, Shinnosuke Kamei, Koji Masaoka, Toshihiko Hiaki (5) **190**
- Syntheses of Layered Double Hydroxides from de-K Bittern and Their

Anion Exchange Property—Toru Ishiba, Sinya Masaki, Mikio Yoshida, Masakazu Matsumoto, Yoshiyuki Shirakawa (10) **585**

4. Separation Engineering

- Effect of Counter Cations on the Hydrothermal Conversion of FAU-Type Zeolites into ABW or ANA and Their Potential Applicability for CO₂/N₂ Separation—Junpei Fujiki, Katsunori Yogo (1) **17**
- Effect of Frequency on Dehydration Efficiency under the Electromagnetic Coupling Field—Yuling Lv, Kai Guo, Limin He, Leicheng Shi, Yun Cao (2) **49**
- Arsenic Removal from Aqueous Solutions by Forward Osmosis—Minh Tuan Pham, Syouhei Nishihama, Kazuharu Yoshizuka (3) **95**
- Supercritical Carbon Dioxide Extraction of a Biaryl from Model Product Solutions of a Flow Suzuki–Miyaura Coupling Reaction—Tatsuya Fujii, Shin-ichiro Kawasaki (6) **246**
- Dynamic Recovery of Palladium Particles Dispersed in a Polymer-Containing Acetone Solution by Precipitation of 2-(Dimethylamino)ethyl Methacrylate and Styrene Copolymers—Takafumi Kajiwaru, Wataru Kasaishi, Shintaro Morisada, Keisuke Ohto, Hidetaka Kawakita (7) **280**
- Phosphate Removal from Wastewater Using Calcium Silicate Hydrate Synthesized from Lake Sediment and Bivalve Shell—Chompey Den, Eden Gan Mariquit, Winarto Kurniawan, Hirofumi Hinode (7) **287**
- Liquid–Liquid Extraction of Cd(II) and Zn(II) Using a Novel Tetraalkylphosphonium-Based Ionic Liquid—Mochamad L. Firmansyah, Adroit T. N. Fajar, Wataru Yoshida, Takafumi Hanada, Masahiro Goto (9) **469**
- Competitive Adsorption Model for Process Design of Separation and Recovery Method in Porous Type Anion-Exchange Resin—Kousuke Hiromori, Kosei Kanuma, Naomi Shibasaki-Kitakawa (9) **477**
- Preparation of Highly Selective Sorbents Composed of Peptides and Silica Using Novel Molecular Imprinting Technology for Target Metal Ions—Morlu Gf Stevens, Saki Yokota, Takeshi Gotoh (9) **485**
- Flocculant Containing Silicon, Aluminum, and Starch for Sewage Treatment—Runnan Wang, Hao Zhang, Lili Lian, Xiyue Wang, Bo Zhu, Dawei Lou (10) **592**
- Reductive Adsorption of Chromium(VI) by Coal-Based Activated Carbon—Viet Anh Hoang, Ya Wen Chen, Syouhei Nishihama, Kazuharu Yoshizuka, Ya-Fen Wang (10) **599**
- Sorption of Antibiotics, Pharmaceuticals, and Personal Care Products in Water on Didodecyldimethylammonium Bromide-Montmorillonite Organoclay—Mako Oiwa, Kaho Yamaguchi, Takayoshi Shibayama, Tai-Ying Chiou, Tohru Saitoh (10) **608**
- Development of ZIF-8 Membranes for Propylene/Propane Separation by Direct Growth on a ZnO-Modified Support without Activation—Nobuo Hara, Yasuhisa Hasegawa, Hideki Tanaka, Miki Yoshimune, Takehiro Yamaki, Hideyuki Negishi (10) **616**
- Removal of Phenol from Oil Mill Effluent Using Activated Carbon Prepared from Kernel Shell in Thailand's Palm Industry—Weetara Boontham, Hiroaki Habaki, Ryuichi Egashira (11) **682**

5. Thermal Engineering

- Buoyancy Effects on the Shape of a Small Axisymmetric Diffusion Flame—Tomomi Sasaki, Kazunori Kuwana (2) 58
- Accurate Numerical Integration of β -PDF for the Flamelet Approach—Yohsuke Matsushita, Weeratunge Malalasekera, Shota Akaotsu, Yoshiya Matsukawa, Hideyuki Aoki (9) 494
- Parametric Study of Fixed-Bed Dehumidification Using a PCM-Containing Adsorbent for Effective Recovery of Heat of Adsorption—Jihye Choi, Kenichi Yoshie, Takahiko Moteki, Masaru Ogura (10) 626

6. Chemical Reaction Engineering

- Ten-Year Durability of a High-Performance CO Preferential Oxidation Catalyst for Residential Polymer Electrolyte Fuel Cell Systems—Mitsuaki Echigo, Akio Inaya, Norihisa Shinke, Kazuhiro Hirai, Takeshi Tabata (2) 64
- Non-Catalytic Oxidative Desulfurization of Diesel Oil Using Ozone in a Biphasic Oil/Acetonitrile System—Wei Zhang, Guoying Xie, Yujie Gong, Dongxu Zhou, Chen Zhang, Qiaona Ji (2) 68
- Deacidification of Papers with Hexamethylenetetramine (HMT) in Alcohols and Supercritical Carbon Dioxide—Ting Wu, Wei Tan, Mengru Liu, Yanxiong Fang, Yingtao Lin (3) 113
- Macro-Porous Ceria Photocatalysts Synthesized Using Silica Nanospheres for Efficient Adsorption and UV-Photocatalysis System—Yusaku Mochizuki, Ryo Shoji, Yasukazu Kobayashi, Noriko Yamauchi, Kazunori Sato (3) 120
- Combined Process to Recycle Scrap Tire Rubber and Degrade Dye Wastewater with Sub/Supercritical Water—Xiang Li, Chen-hao Yang, Yang-tian Yan, Xiao-qing Deng (7) 296
- High Performance of a Structured Ni-Based Catalyst for Autothermal Dry Reforming of Methane—Bralin Dwirratna, Kazuaki Hirao, Ryo Watanabe, Choji Fukuhara (7) 304
- Ammonia Synthesis by Pressure Swing of N_2 - H_2 Nonthermal Plasma—Shinsuke Mori, Yuki Takanami, Yuya Fujimoto, Shoma Sato (9) 498
- Co-Oligomerization of Electroconductive Monomers in a Cyclodextrin-Based Metal–Organic Framework—Katsuki Kusakabe, Anna Nagai, Keishi Nagao, Mina Sakuragi, Wataru Michida (9) 504
- Investigation of Arc Behavior and Temperature Distribution Corresponding to Electrode and Phase Configurations in a Multiphase AC Arc—Takafumi Okuma, Hiroki Maruyama, Tomoyuki Imatsuji, Taro Hashizume, Hisao Nagai, Takeshi Koiwasaki, Manabu Tanaka, Takayuki Watanabe (9) 509
- Heat Transfer Characteristics in the Dense Phase Region of a Pressurized Fluidized Bed—Jinyong Zhu, Cai Liang, Kelian Pang, Lunbo Duan, Daoyin Liu, Xiaoping Chen, Jiliang Ma (9) 516
- Fabricating and Evaluating the Sterilization Effect of Composite Coal-Tar Pitch-Based Spherical Activated Carbon (TiO_2 /CB/Coal-Tar-Pitch-SAC)—Lianzhong Shen, Guiying Xu, Beibei Han, Hui Ge, Shigekazu Kato, Youyuan Dai, Kun Wang, Fei Sun, Weimin Zhou (9) 526

7. Process Systems Engineering and Safety

- Stochastic Approach to Optimize the Supply Chain Network of Microalga-Derived Biodiesel under Uncertain Diesel Demand—Jiah Yu, In-Beum Lee, Jeehoon Han, Yuchan Ahn (1) 24
- Adaptive Nonlinear Model Predictive Control of NOx Emissions under Load Constraints in Power Plant Boilers—Zhenhao Tang, Yanyan Li, Xiangying Chai, Haiyang Zhang, Shengxian Cao (1) 36
- Integrating Canonical Variate Analysis and Kernel Independent Component Analysis for Tennessee Eastman Process Monitoring—Dongdong Sun, XiaoFeng Gong, Yonglu Chen (3) 126
- Inherent Safety Analysis for a Difluoro-Chloromethane (F22) Pyrolysis Process under an Unsteady State—Yangmei Qin, Zeyi Xiao, Shimeng Guo, Jiying Zeng, Senqing Fan, Jingyun Liu (4) 135
- A GRU Network-Based Approach for Steam Drum Water Level Predictions—Yan Ma, Hongguang Li (5) 198
- Integral Function to Optimize Mass Exchange Network Synthesis

- Model—Chuang Hou, Wenxing Xu, Mingsheng Luo (6) 254
- A Novel Fault Detection Scheme Based on Difference in Independent Component for Reliable Process Monitoring: Application on the Semiconductor Manufacturing Processes—Cheng Zhang, Tao Xu, Yuan Li (7) 313
- An Improved Non-negative Matrix Factorization Method for Dynamic Industrial Fault Diagnosis—XiaoFeng Gong, Dongdong Sun, Zuodong Tang, Kai Zhou, RuiSen Luo (7) 321
- Sparse Principal Component Analysis Using Particle Swarm Optimization—Siwei Lou, Ping Wu, Lingling Guo, Yiyong Duan, Xujie Zhang, Jinfeng Gao (7) 327
- Physical-Principle Based Extended Attributes for Process Fault Detection—Junqing Xia, Yoshiyuki Yamashita (7) 337
- Systematic Optimization Using Mathematical Model of Electrical Arc Furnace Producing Liquid Steel—Young Wook Bin, In-Beum Lee (9) 533
- A Comparison Study of Subspace Identification of Blast Furnace Ironmaking Process—HaiYun Zhou, Ping Wu (9) 540
- Multi-Objective Optimization Model for the Energy System of Electric Arc Furnace Steelmaking Considering the Cost and Carbon Dioxide Emission under Uncertainty—MyungSuk Son, YoungWook Bin, In-Beum Lee, Suh-Young Lee (9) 546
- Modelless Start-Up Control for Operational Flexibility of Combined Cycle Power Plants—Yasuhiro Yoshida, Yuya Tokuda, Takuya Yoshida, Yuki Enomoto, Nobuhiro Osaki, Yoshito Nagahama, Yoshifumi Tsuge (10) 636
- A Robust Infinite Gaussian Mixture Model and Its Application in Fault Detection of Nonlinear Multimode Processes—Yi Pan, Lei Xie, Hongye Su, Lin Luo (12) 758
- Qualitative Modeling for Fault Diagnosis Based on Physical Knowledge and Historical Operation Data under Normal Operating Conditions—Junqing Xia, Yoshiyuki Yamashita (12) 771

8. Biochemical, Food and Medical Engineering

- Electrical Performance of Palm Kernel Shell Utilized as Fuel for *Cellulomonas fimi* in Microbial Fuel Cells—Wichean Khawdas, Yuji Aso, Tomonari Tanaka, Yoko Okahisa, Iori Kazama, Hitomi Ohara (4) 146
- Effect of Alumina Particles on Simultaneous Lipid Extraction and Biodiesel Production from Microalgae under Ultrasonic Irradiation—Sasipa Boonyubol, Satoshi Kodama, Hidetoshi Sekiguchi (4) 153
- Accelerated Method for Designing Flow-Through Chromatography of Proteins—Sumiko Hasegawa, Chyi-Shin Chen, Noriko Yoshimoto, Shuichi Yamamoto (5) 206
- Optimization of Flow-Through Chromatography of Proteins—Sumiko Hasegawa, Chyi-Shin Chen, Noriko Yoshimoto, Shuichi Yamamoto (5) 214
- Prediction of the Performance of Capture Chromatography Processes of Proteins and Its Application to the Repeated Cyclic Operation Optimization—Chyi-Shin Chen, Noriko Yoshimoto, Shuichi Yamamoto (11) 689

9. Micro and Nano Systems

- Continuous Production Using a T-Shaped Micro/Milli-Reactor for RUCY-Catalyzed Asymmetric Hydrogenation of Acetophenone—Tetsuya Yamamoto, Osamu Tonomura, Aichiro Nagaki (2) 73

10. Materials Engineering and Interfacial Phenomena

- Fabrication of Hollow TiO_2 Nanotubes via a Simple Gas-Phase Process Using In-Flight Coating Followed by Heat Treatment—K. Kusdianto, Lakshmi R. Hemanth, Masaru Kubo, Manabu Shimada (1) 45
- Li-Ni-Oxide Nanoparticle Synthesis by Induction Thermal Plasmas—Hirotaka Sone, Shuhei Yoshida, Takuya Kageyama, Manabu Tanaka, Takayuki Watanabe (2) 78
- Impurities Assisted with Control of Polymorphs during Seeded Crystallization—Kota Tanaka, Hiroshi Takiyama (4) 160

| | |
|--|----------|
| Synthesis of $\text{CaMg}(\text{CO}_3)_2$ from Concentrated Brine by CO_2 Fine Bubble Injection and Conversion to Inorganic Phosphor—Taichi Kimura, Yoshinari Wada, Shinnosuke Kamei, Yoshiyuki Shirakawa, Toshihiko Hiaki, Masakazu Matsumoto | (9) 555 |
| Effects of Porosity and Ni/Al Molar Ratio in Ni–Al Oxide Precursors on Porous Intermetallic Nickel Aluminide Nanopowders Prepared by Chemical Route—Yasukazu Kobayashi, Shohei Tada, Ryuji Kikuchi | (9) 562 |
| Study on Preparation and Growth Mechanism of $\text{MgSO}_4 \cdot 5\text{Mg}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$ Whiskers in $\text{NH}_4^+ - \text{NH}_3$ Buffer System—Tianbo Fan, Dongxue Han, Xiaohui Jia, Si Chen, Yu Jiang, Tingting Hu, Li Li, Hongfan Guo, Yunyi Liu | (10) 646 |
| Nucleation Kinetics Estimated by Using the Modified Induction Time in Cooling Crystallization and the Applicability to the Combined Process of Antisolvent and Cooling Crystallization—Takanori Kodaera, Masanori Kobari, Izumi Hirasawa | (11) 698 |
| Effect of Additives on the Crystal Growth of L-Aspartic Acid—Kiyoka Maruyama, Masaaki Yokota, Saki Yoshida, Norihito Doki | (11) 708 |
| 11. Energy | |
| Product Characteristics and Interaction Mechanism in Low-Rank Coal and Coking Coal Co-Pyrolysis Process—Ting Su, Yonghui Song, Xinzhe Lan | (4) 167 |
| Cross-Linked PVA/PAA Fibrous Web Composite Membrane for Enhanced Performance of PEM Fuel Cells under High-Temperature and Low-Humidity Conditions—Jeongpil Kim, Ohchan Kwon, Hansung Kim, Dae Woo Kim, Yukwon Jeon, Yunseong Ji, Ok sung Jeon, Chanmin Lee, Yong-Gun Shul | (9) 569 |
| Sulfonated Fluorocarbon Polymers as Proton Exchange Membranes for Fuel Cells—Yue Zhao, Rong Liu | (11) 713 |
| 12. Environment | |
| Use of Anaerobic Digestion Effluent and Secondary Treated Sewage Plant Discharge for Algal Cultivation and Prevention of Algal Pond Crash—Satoshi Nakai, Nur Indradewi Oktavetri, Nobuhiro Itamura, Tetsuji Okuda, Wataru Nishijima, Mitsufumi Matsumoto | (4) 177 |
| Effect of pH on Hydrolysis of Biodegradable Polyethylene Terephthalate—Yasushi Hirota, Kouichi Hayashi, Takuya Kawanishi, Noboru Takiguchi | (6) 267 |
| Recovery of Rare Metals from Spent Denitrification Catalysts in Coal-Fired Power Plants—Kosuke Sakusabe, Yuuki Mochizuki, Takahiro Kato, Hirokazu Okawa, Katsuyasu Sugawara | (7) 351 |
| Mercury Forms Contained in Desulfurization Gypsums—Kosuke Sakusabe, Takahiro Kato, Hirokazu Okawa, Katsuyasu Sugawara | (7) 359 |
| Separation of Trace Magnesium from Metallic Bismuth by Chlorination—Takahiro Kato, Hirokazu Okawa, Katsuyasu Sugawara, Risehiro Nonaka, Masashi Tsuda | (7) 366 |
| Integrated Process Combined with Fenton Reaction for the Treatment of Papermaking Deinking Wastewater—Guanlong Yu, Haiyuan Peng, Chunyan Du, Hong Chen, Wei Zhang | (10) 653 |
| Effect of Plastics on the Photodegradation Behavior of Chlorophenols—Md Nazmul Hassan, Atsushi Kuzukami, Satoshi Nakai, Wataru Nishijima, Takehiko Gotoh | (10) 660 |
| Dependence of Phosphorus Recovery on Acid Type during Dissolution-Precipitation Treatment of Incineration Ash of Chicken Manure—Shigeru Sugiyama, En-Hong Liu, Kenta Imanishi, Naohiro Shimoda, Masahiro Katoh, Jhy-Chern Liu | (10) 667 |

| | |
|---|----------|
| Acceleration of Bromine Oxyacid Generation and Organic Compound Decomposition by O_3 Fine Bubble Injection into an Aqueous Solution Containing Bromide Ions—Yoshinari Wada, Kaoru Onoe, Masakazu Matsumoto | (11) 722 |
| Regeneration of Spent Activated Carbon Using Dimethyl Ether for Wastewater Treatment—Tadashi Sano, Mitsuhiro Matsuzawa | (12) 787 |

13. Engineering Education

| | |
|--|---------|
| Research on Bidirectional Matching Algorithm of Variable Threshold SIFT Based on DBSCAN—Xue-jun Liu, Bi-xian Yuan, Yu-chen Wei, Yong Yan, Yong-xu Liu, Qi-si Yang, Jiao-jiao Qin | (5) 222 |
|--|---------|

Special Issue on 6th International Workshop on Process Intensification (IWPI2018)

| | |
|---|---------|
| Preface to the special issue—Naoto Ohmura, Hiroshi Suzuki, Dun-Yen Kang, Satoko Fujioka, Ryo Watanabe, Yusuke Asakuma | (8) 375 |
| Core-Shell Metal–Organic Frameworks with Improving Cyclic Stability for Water Adsorption—Jiun-Jen Chen, Hau-Che Chiu, Chao-Wen Chang, Chang-Yi Shen, Yu-Hao Kang, Heng-Yu Chi, Chung-Kai Chang, Yu-Chun Chuang, Dun-Yen Kang | (8) 376 |
| Effect of Sn_3Pt_7 Alloy Structures in SnPt Bimetallic Nanoparticle Catalysts on Catalytic Activity for Hydrogenation of Acetic Acid—Keita Taniya, Hiromu Takado, Hiroaki Ito, Takafumi Horie, Yuichi Ichihashi, Shik Chi Tsang, Satoru Nishiyama | (8) 383 |
| Proposal of Index for Reaction Improvement Using Structured Catalyst—Hiromu Sasaki, Makoto Sakurai | (8) 389 |
| Synergistic Effect of High Irradiation Power and Antisolvent Addition for Enhanced Microwave Assisted Nanoparticle Synthesis Process—Atsuya Shibatani, Haruka Kan, Shungo Matsumura, Yusuke Asakuma, Agus Saptoro | (8) 397 |
| Experimental Study on Mass Transfer in a Packed Distillation Column—Goro Nishimura, Kunio Kataoka, Hideo Noda, Hiroshi Yamaji, Naoto Ohmura | (8) 402 |
| Gas Absorption Enhancement of Slug Flow in the Presence of Non-Porous Silica Fine Particles—Yuuki Iwamura, Takafumi Horie, Yoshihide Watabe, Hayato Masuda, Steven Wang, Kenta Hirai, Norihisa Kumagai, Keita Taniya, Yuichi Ichihashi, Yoshiyuki Komoda, Naoto Ohmura | (8) 409 |
| Nanoparticle Separation through Deterministic Lateral Displacement Arrays in Poly(dimethylsiloxane)—Naotomo Tottori, Yasuhiko Muramoto, Hiraku Sakai, Takasi Nisisako | (8) 414 |
| Effect of Additives on the Rapid Destruction Process of Particle Aggregates in a Startup Shear Flow—Yoshiyuki Komoda, Nobuhiko Furuse, Ruri Hidema, Hiroshi Suzuki | (8) 422 |
| Impacts of the Surfactant Concentration on the Sedimentation Characteristics of Silica Hard-Shell Microcapsules Containing Phase Change Materials—Sohei Usa, Ruri Hidema, Yoshiyuki Komoda, Takafumi Horie, Keita Taniya, Yuichi Ichihashi, Naoto Ohmura, Satoru Nishiyama, Hitoshi Asano, Hiroshi Suzuki | (8) 431 |
| Rheology and Stability of Magnetorheological Fluids Prepared with Three Types of Stabilizers—Aya Kaide, Makoto Kanda, Hiroshi Tochigi, Takashi Saeki | (8) 438 |
| Memory Efficient Singular Finite Element Method for Flow of Viscoelastic Fluids—Shuichi Iwata, Ryo Nagumo, Hideki Mori, Haruki Furukawa | (8) 446 |
| Dynamic Characteristics of Calcium Chloride/Silica Nano-Holed Microcapsule Composites—Iori Kanzaki, Hiroshi Suzuki, Ruri Hidema, Yoshiyuki Komoda, Keiko Fujioka | (8) 457 |