

List of Papers

- 1-1o **Structure on the compactifications of C^2 with $b_2 = 2$**
Akio Ishida (Kumamoto University)*
- 2-1o **An Analytical Model for the non-Arrhenius Ionic Conductivity in Silver Halides**
Takaki Indoh, Masaru Aniya (Kumamoto University)*
- 2-2o **Relationship between Ionic Conduction and Electronic Properties in Complex Perovskite Oxides**
Sachi Taniguchi, Masaru Aniya (Kumamoto University)*
- 2-3o **Theoretical Analysis of the Viscosity of Trehalose-Water-Lithium Iodide**
Sahara, Masaru Aniya (Kumamoto University)*
- 2-4o **Correlation between Nonlinear Optical Properties and Ionic Conduction in $(AgX)_x \cdot (AgO \cdot B_2O_3)_{1-x}$ (X=Cl, Br, I) Glasses-A Study based on Miller Rule-**
Shosuke Ikeda, Masaru Aniya (Kumamoto University)*
- 2-5o **Ab initio molecular dynamics study of anomalous pressure dependence of self-diffusion in liquid B_2O_3**
Satoshi Ohmura, Fuyuki Shimojo (Kumamoto University)*
- 2-6p **Temperature Dependence of the Elastic Stiffness of AgBr**
Haruhito Sadakuni, Masaru Aniya (Kumamoto University)*
- 2-7p **The Diffusion Mechanism of Liquid ZnCl₂ Under High Pressure: An Ab Initio Molecular-dynamics Study**
Akihide Koura, Satoshi Ohmura, Fuyuki Shimojo (Kumamoto University)*
- 2-8p **Ab initio Molecular-Dynamics Study of Diffusion Mechanism in Liquid MgSiQ under Pressure**
Ryo Yoshimura, Satoshi Ohmura, Fuyuki Shimojo (Kumamoto University)*
- 3-1o **Electrochemical detection of p-nitrophenol using nanoporous gold**
Zhaona Liu, Houyi Ma (Shandong University)*
- 3-2o **Rich Chemistry of Metal Complexes with Tridentate Ligands Derived from Formylimidazole and Histamine**
Hiroaki Hagiwara, Koshiro Nishi, Naohide Matsumoto (Kumamoto University), Yukinari Sunatsuki, Masaaki Kojima (Okayama University), Seiichiro Iijima (National Institute of Advanced Industrial Science and Technology)*
- 3-3o **Synthesis and Magnetic Properties of Copper(II)-Gadolinium(III) Complex With Chiral Ligand**
Youhei Shimogori, Naohide Matsumoto (Kumamoto University)*
- 3-4o **Development of graphene composite**
Takeshi Matsui Mina Nakai, Yuya Iwano, Shinya Hayami (Kumamoto University)*
- 3-5p **Kinetic analysis of arsenic leaching from polluted sediments**
Takuma Jodai, Md. Abul Hashem, Shin-Ichi Ohira, Kei Toda (Kumamoto University)*
- 3-6p **The concentration distributions of artificial sweeteners in wastewater treatment plants and river water, and its use to preservation of groundwater**
Takanori Orishikida, Haruhiko Nakata (Kumamoto University)*
- 3-7p **Trace level of sulfide contained in natural waters: on-site analysis in nano-molars**
Haruka Kuwahara, Sin-Ichi Ohira, Kei Toda (Kumamoto University)*
- 3-8p **Sample introduction, Separation, and Detection methods for Capillary Electrophoresis**
Shingo Nakamura, Shin-Ich Ohira, Kei Toda (Kumamoto University)*
- 3-9p **Separation of Cation and Anion from Sample Matrix by Means of Electric Field**
Kenta Kuhara, Shi-Ichi Ohira, Kei Toda (Kumamoto University), Purendu K. Dasgupta (University of Texas)*

3-10p Reagent Free Analyzer for Trace Water in Ethanol and Other Organic Solvents

Kayoko Goto, Shin-Ichi Ohira, Kei Toda (Kumamoto University), Purnendu K. Dasgupta (University of Texas)*

3-11p Manganese(III)-Based Synthesis of Arenes Substituted Two Heterocyclic Side-chain Using Acylacetonitrile Building Blocks

Shota Ishiguro, Hiroshi Nishino (Kumamoto University)*

3-12p Ring Expansion of Cyclic α -Hydroxyketones Using Acyl Radical

Hideki Hayashi, Hiroshi Nishino (Kumamoto University)*

3-13p Selective and Diverse Synthesis of Substituted Phenols

Keiichiro Shimizu, Takashi Fujishima, Ryo Irie (Kumamoto University)*

3-14p Synthesis of Cage-Type Cyclophanes Containing Dihydrofurans

Kohei Tsuda, Hiroshi Nishino (Kumamoto University)*

3-15p Unexpected Manganese(III)-Promoted Aerobic Oxidation of β -Enaminones to Polyfunctionalized Pyrrolin-4-ones

Miyuki Omata, Hiroshi Nishino (Kumamoto University)*

3-16p Synthesis of Cyclophane-Type Compounds Using Mn(III)-Based Intramolecular Cyclization

Kenji Yasutake, Hiroshi Nishino (Kumamoto University)*

3-17p Synthesis of Dibenz[b,f]oxepins and their Derivatives Using Mn(III)-Based Oxidation with Active Methylene Compounds

Yasunobu Maemura, Hiroshi Nishino (Kumamoto University)*

3-18p Preliminary Analysis of Volatile Components and Determination of Key Odor Compounds in Sichuan Paocai

Zhang Qi-sheng (Sichuan University, Shichuan Academy of Food and Fermentation Industries), Chen Gong, Yu Wen-hua, Liu Zhu, Li Heng, You Jing-gang (Sichuan University), Zhang Wen-xue, Wu Zheng-yun (Shichuan Academy of Food and Fermentation Industries)*

4-1o The Study of Tektite Glasses Formed in Space by Impact of Meteorites by XAFS

Ling Wang, Takahiro Furuta, Akira Yoshiasa (Kumamoto University), Maki Okube (Tokyo Institute of Technology), Takashi Takeda (National Institute for Material Science)*

4-2o Application of PGIS and Zonation planning model to conservation Saola species in Saola landscape in Thua Thien Hue and Quang Nam province, Vietnam

Luong Van DUC (Kumamoto University), Ho Dac Thai Hoang (Hue University), Nicholas Michael Wilkinson (Cambridge University), Nguyen Thi Thu HIEU (Kumamoto University)*

4-3o 3D Modeling of Hydraulic Structure of Granite Area Using Geostatistical Techniques

Taiki Kubo, Katsuaki Koike (Kumamoto University)*

4-4p Parallel on phase transition of XANES spectra for PbTiO₃, ATiO₃ compounds (A=Mg,Ca,Sr,)

Tomotaka Nakatani, Tatsuya Hiratoko, Akira Yoshiasa , Akira Yoshiasa(Kumamoto University), Maki Okube (Tokyo Institute of Technology), Takashi Takeda (National Institute for Materials Science), Kei-ichiro Murai (Tokushima University)*

4-5p Simulating the distribution of water quality in Dianchi Lake with space-time multivariate geostatistics

Lei LU (Kumamoto University), Chunxue LIU (Yunnan University)*

5-1o Neuroprotective effect of Pegagan Leaf (*CeA*): Induction of Brain-Derived Neurotrophic Factor (BDNF) production, TNFa, BCL2 Expression and Apoptosis on Rat pup Neuronal Cells In Vitro

Husnul Khotimah, Wibi Riawan (Kumamoto University, Brawijaya University), Umi Kalsum, M. Aris Widodo (Brawijaya University), Mitsuyo Kishida (Kumamoto University)*

5-2o Burdock Fructooligosaccharide Induces Resistance in Several Postharvest Fruits

Sun Fei, Chen Kaoshan , Zhang Pengying (Shandong University)*

- 5-3o Morphological and physiological responses of Acer truncatum Bunge to different water supply levels**
Nannan Xu, Renqing Wang, Penglin Lu and Weihua Guo (Shandong University)*
- 5-4o Comparative Karyotype Analysis of Wild and Hatchery Specimen of Stinging Catfish Heteropneustes fossilis**
Meshkatul Jannat (Kumamoto University, University of Dhaka), Md. Ghulam Mustafa, Sheikh Shamimul Alam (University of Dhaka)*
- 5-5o Bacterial community shift in two sectors of a tannery plant and its Cr (VI) reducing potential**
Jian Chen, Yue-Qin Tang, Xiao-Lei Wu (Peking University)*
- 5-6o Simulation of microbial enhanced oil recovery in a single microfluidic channel**
Lu Wang, Peng Guo, Hao Wang, Yueqin Tang, Xiaolei Wu (Peking University)*
- 5-7o Degradation of Petroleum hydrocarbons (C6-C40) and Crude Oil by a Dietzia Strain**
Xingbiao Wang (Peking University, Chinese Academy of Sciences), Chang-Qiao Chi, Yue-Qin Tang (Peking University), Gang Wu (Chinese Academy of Sciences), Xiao-Lei Wu (Peking University)*
- 5-8o The Effect of Activated Protein C on MMP-8 Expression in Human Dermal Fibroblasts**
Mehtap Yuksel Egrilmez, Zahide Cavdar, Gul Guner-Akdogan (Dokuz Eylul University)*
- 5-9p Nettle (*Urtica Dioica L.*) and Health**
Buket YALCIN, Semih OTLES (Ege University)*
- 5-10p The Healthy Functions and Utilization of Pueraria**
Qing Rao, Xiao-li Lu (Sichuan University)*
- 5-11p Tamarind gum extraction technology**
Jian Yang, Wenzhe Zhang (Sichuan University)*
- 5-12p The Ethanol Fermentation of Acid-hydrolyzed Vinasse Pyrolysate without Detoxification**
Liu Yuehong, Li Qiong, Tan Li, Zhang Wenxue (Sichuan University)*
- 5-13p Study on Oxidative Stability of Ganoderma Breaken-Spore Powder**
Qing Rao, Xiao-li Lu (Sichuan University)*
- 5-14p The Preparation and Research of Oil Sunflower Protein**
Kai Deng, Bibo Shi, Wenzhe Zhang (Sichuan University)*
- 5-15p Selection of acidogenic bacteria in Luzhou-flavor Liquor**
Juan Zeng, Hong Li , Wen-xue Zhang (Sichuan University)*
- 5-16p Functional Factors and Health-protective Function of Buckwheat**
Ting Miao, Kai Yao (Sichuan University)*
- 5-17p A review of researches on Konjac glucomannan**
Pingping Hao, Wenzhe Zhang (Sichuan University)*
- 5-18p Screening of High Acidic Cellulase Activity mold from Daqu**
Yingying Zhao, Wenzhe Zhang (Sichuan University)*
- 5-19p Examination of stimulus parameter for Brain-Computer communication system~duration and frequency of stimulation~**
Masatomo Yahata, Tomohiko Igasaki, Yuki Hayashida, Nobuki Murayama (Kumamoto University)*
- 5-20p Automatic detection of the Spike-and-Wave Discharges by using Artificial Neural Network for the on-line magnetic stimulation system for patients with epilepsy**
Taiga Higuchi, Tomohiko Igasaki, Yuki Hayashida, Nobuki Murayama, Ryuji Neshige (Kumamoto University)*

5-21p Application of *rpo B* and 16S rDNA genes to analyze bacterial diversity of fermented vegetables

Haiying Wang, Si Shi, Wenzhe Zhang (Sichuan University)*

5-22p Melatonin

Ilknur Selek, Semih Otles (Ege University)*

6-1o Ethanol Production from Bamboo Biomass based on Concentrated Sulfuric Acid Hydrolysis

Zhaoyong Sun, Tomohiro Iwanaga, Kenji Kida (Kumamoto University)*

6-2o Electrolysis Reaction Mechanism for Glycerol in Sub-critical Water

Asli YUKSEL, Mitsuru SASAKI and Motonobu GOTO (Kumamoto University)*

6-3o Nickel Removal from Nickel-Tetraphenylporphine (Ni-TPP) Using Supercritical Water- A Non-Catalytic Study

Pradip Chandra Mandal, Wahyudiono, Mitsuru Sasaki and Motonobu Goto (Kumamoto University)*

6-4o Conversion of glycerol using microwave over activated carbon and hydrothermal process

Lailatul Qadariyah, Mahfud, Sumarno (ITS), Wahyudiono, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-5p Prevention and Treatment on Premature Black Hair's Turning Grey ——An Assumption of A New Health Function

Wang Lei, Sun Caiyu, Lu Xiaoli (Sichuan University)*

6-6p Study on Rinsing Processing Technical of Tilapia Functional Frozen Surimi

Wang Gang, Lu Xiaoli (Sichuan University)*

6-7p Research on the application of biological preservatives in food industry

Ni Haifeng, Feng Yuejing, Lu Xiaoli (Sichuan University)*

6-8p Effects of different drying ways on nutritional components of chicken bone soup powder

*Yueling Feng *, Xiaoli Lu (Sichuan University)*

6-9p Study on color protection on low temperature meat products

Liu Zhongke, Huang Shujie, Lu Xiaoli (Sichuan University)*

6-10p Study on enzymatic degradation of lignocelluloses by dilute acids-alkalis pretreatment

Xia Zhong, Rong Wang, Wen-xue Zhang (Sichuan University)*

6-11p Methods of Extraction and Synthesis of Lycopene

Cui Kaikai, Lu Xiaoli (Sichuan University)*

6-12p Extraction of Lawson with supercritical carbon Dioxide (SC CO₂) from *Lawsonia inermis* (Henna)

T. H. Zohourian, M.Sasaki, S.Machmudah, M.Goto (Kumamoto University), M.Tanaka (ASCII CO. Ltd.)*

6-13p Zn-Ni-W Alloy Electroplating From Sulfate Bath

Tetsuya Sato, Yasumichi Matsumoto (Kumamoto University)*

6-14p Simultaneous Distillation and Extraction Technology of White Pepper Essential Oil

Sining Li, Xiaoli Lu (Sichuan University)*

6-15p Polymerization of alanine with discharge plasma in supercritical fluids

Koichi Nagafuchi, Wahyudiono, Tsuyoshi Kiyan, Hiroshi Watanabe, Takeshi Ihara, Suguru Kameda, Tomohiro Furusato, Hidenori Akiyama, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-16p Fabrication of nanofibers by electrospinning in supercritical CQ

Kanako Murakami, Wahyudiono, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-17p Tri-arm Poly(NIPAAm-b-HEAAm) Diblock Copolymers: Synthesis, Characterization and Investigation of Aqueous Dispersion Properties

Md. Ashaduzzaman, Masashi Kunitake (Kumamoto University)*

6-18p Hydrothermal decomposition of lignocellulose for high yield recovery of glucose

Yusaku Shibata, Yui Matsunaga, Hiroaki Kawanabe, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-19p Conversion and desulfurization of bitumen in supercritical water

Tatsuya Shiraishi, Masumi Iwakiri, Wahyudiono, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-20p Surface modification of magnesium metal with hydrothermal treatment

Akio Tanaka, Tomonori Hirose, Jyunichi Hirasawa, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-21p Reaction of organic compounds by nano-pulsed plasma discharged in subcritical water

Hiroshi Watanabe, Wahyudiono, Tsuyoshi Kiyan, Takeshi Ihara, Suguru Kameda, Hidenori Akiyama, Mitsuru Sasaki and Motonobu Goto (Kumamoto University)*

6-22p Hydrothermal degradation and electrolysis of monosaccharide in batch reactor

Takanari Oshikawa, Wahyudiono, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-23p Extraction of oligomers from poly (ethylene terephthalate) materials with high pressure and high temperature water

Kensei Hirae, Jun Inagaki (Kumamoto University)*

6-24p Phosphate's application status and development tendency to meat products

Qiu Si, Lu Xiaoli (Sichuan University)*

6-25p Optimization of the Fermentation of Lactic acid bacteria Pickles

Ni Haifeng, Lu Xiaoli (Sichuan University)*

6-26p Precipitation of β-carotene using Supercritical Anti-Solvent process

Hazuki Nerome, Siti Machmuddah, Mitsuru Sasaki, Motonobu Goto (Kumamoto University), Yong-Suk Yound, Youn-Woo Lee (Seoul National University)*

6-27p Development of permittivity sensor applied for high pressure fluid

Akiko Takahashi, Arata takamizu, Takuya Suetsugu, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-28p Extraction of valuable compounds from citrus byproduct using mixture solvent, water and carbon dioxide

Arata takamizu, Takuya Suetsugu, Akiko Takahashi, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

6-29p Development of supercritical carbon dioxide extraction method applied for Citrus aurantium peel oil

Takuya Suetsugu, Akiko Takahashi, Arata takamizu, Mitsuru Sasaki, Motonobu Goto (Kumamoto University)*

7-1o Synthesis of onion-like carbon and carbide nanomaterials by Pulsed Plasma in Liquid

*Abdullaeva Zhypargul *, Emil Omurzak, Chihiro Iwamoto, Tsutomu Mashimo (Kumamoto University)*

7-2o Growth Mechanism of Octahedral MgSi in Al–Mg₂Si Alloys

Chong Li, Xiangfa Liu (Shandong University)*

7-3o Antiphase Boundary-like Structure in B19 Martensite of Ti₅₀Ni₃₀Cu₂₀ Shape Memory Alloy

Kyosuke Hirayama, Mitsuhiro Matsuda, Yasuhiro Morizono, Sadahiro Tsurekawa (Kumamoto University), Minoru Nishida (Kyushu University)*

7-4o Effect of Li and Sb on structural and electrical properties of KNN ceramics

Rashmi Rani, Seema Sharma, Ratanmala chatterjee, N.K.P.Sinha (Magadh University)*

7-5p Fatigue fracture behavior of pure-magnesium single crystals

Hiroshi Agawa, Shinji Ando, Hiromoto Kitahara, Masayuki Tsushida (Kumamoto University)*

7-6p Prediction of Deformation Resistance of Model Materials for Physical Forming Simulation of Metals and Alloys

Satoru Kuwaharada, Yasumichi Matsumoto (Kumamoto University), Kenji Nakanishi (Kagoshima University), Yuji Mure (Kagoshima Prefectural Institute of Industrial Technology)*

7-7p Micromechanical Characterization of SUS420J2/SPCC Multilayered Steel Composites

K. Hirashita, M. Matsuda, M. Otsu, K. Takashima (Kumamoto University)*

7-8p Microstructures and Mechanical Properties of Anodic Oxide Thick Film Formed on Al Substrate at Low Temperatures

Mitsutaka Yoshimoto, Yasuhiro Morizono, Sadahiro Tsurekawa (Kumamoto University) Tomoyuki Baba (Kumabou Metal Co., Ltd.)*

7-9p Fatigue Behavior of Mg96Zn₂Y₂ Alloys with LPSO Phase by Rotary Bending Fatigue Test

Takuya Yanagihara, Masayuki Tsushida, Hiromoto Kitahara, Shinji Ando (Kumamoto University)*

7-10p Fracture behavior of Mg-Zn-Y alloy with LPSO phase

Hajime Yoshimura, Shun Matsuyama, Masaaki Otsu, Kazuki Takashima, Yoshihito Kawamura (Kumamoto University)*

8-1o Numerical modeling of minimum uncut chip thickness for micromachining with different rake angle

Zhenyu Shi, Zhanqiang Liu, Chengming Cao, Xiaoping Ren (Shandong University)*

8-2o Experimental Study on PAW Butt-Welding Process with Controlled Pulse Key-holing Strategy

Liu Zuming (Shandong University)*

8-3o A minimal order observer-based guaranteed cost control for systems with uncertainty in the state matrix

Erwin Susanto, Mitsuaki Ishitobi, Sadaaki Kunimatsu (Kumamoto University)*

8-4o Study on microbial community structure in the typical oilfields of China

Yan Li, Jieyu Zhao, Yueqin Tang, Xiaolei Wu (Peking University)*

8-5p Fundamental Study on a Vertical Cooling Surface

Yuya Kurayama, Yasushi Koito, Toshio Tomimura (Kumamoto University)*

8-6p Planarization of 2-inch 4H-SiC Substrate utilizing Fe abrasive particles and H₂O₂ solution

Yuya Ichimori, Akihisa Kubota, Yoshitaka Nakanishi, Mutsumi Touge (Kumamoto University)*

8-7p Study on surface smoothing method of single crystal diamond substrate

Sakae Fukuyama, Akihisa Kubota, Yoshitaka Nakanishi, Mutsumi Touge (Kumamoto University)*

9-1o Automatic bird species identification using Hidden Markov Model of birdsong

Yu Matsunaga, Nagahisa Mita (Kumamoto University)*

9-2o Nanosecond Pulsed Power Generator with Coaxial Magnetic Pulse Compression System

Satoru Ueda, Takashi Sakugawa and Hidenori Akiyama (Kumamoto University)*

9-3o A Dynamic Model Simulation of On Ship XY Cartesian Solar Tracker

Budhy Setiawan, Mauridi Hery Purnomo, Mochamad Ashari (ITS)*

9-4o Intelligent Technique based Power Flow Calculation

Syafaruddin, Yoel Rosales Hernandez, Takashi Hiyama (Kumamoto University)*

9-5o Wavelet Level Evaluation for Temporary Short Circuit Detection in Induction Motor Winding

Dimas Anton Asfani (ITS, Kumamoto University), Mauridhi Hery Purnomo(ITS), Syafaruddin, Takashi Hiyama (Kumamoto University)*

9-6o Detection of DNS Cache Poisoning by Observing Standard Domain Name Resolution Traffic

Kazuya Takemori, Yasuo Musashi, Dennis Arturo Ludeña Romaña, Masaya Kumagai (Kumamoto University)*

9-7o Rule-Based Voltage Management of Electric Power Systems

Katsuya Eguchi, Rosales Hernandez Yoel, Takashi Hiyama (Kumamoto University)*

9-8o Security System for Vehicle by Utilizing Ambient Machine Temperature

Donny Radiano, Syafaruddin, Takashi Hiyama (Kumamoto University)*

- 9-9o Outage Probability Analysis for Cooperative Communication Systems**
Chengkun SUN, Hua-An ZHAO (Kumamoto University)*
- 9-10o Pulsed Power Control using PC and FPGA**
Masahiro Akiyama, Tatsurou Sakamoto, Mamoru Suemitsu, Takashi Sakugawa, Hidenori Akiyama (Kumamoto University)*
- 9-11o Real Time Assessment of Voltage Stability by using Neural Network**
Herbert Innah, Takashi Hiyama (Kumamoto University)*
- 9-12o Optimal Control Wind Energy Conversion System: Classical MPPT vs MPPT Using Wind Turbulance**
*Ahmad Nадир *, Takashi Hiyama (Kumamoto University)*
- 9-13o A circularly polarized slot antenna with L-shaped feed probe for wideband characteristics**
Shuhei Nakao, Ronald Joseph, Takeshi Fukusako (Kumamoto University)*
- 9-14o Energy Capacitor System Application to Frequency Control under Islanding Operation**
Fumitaka Shirakata, Takashi Hiyama (Kumamoto University)*
- 9-15o Smoothing of Power Output Fluctuation of Variable Speed Wind Turbines Using Energy Capacitor System**
Teruhiko Ishii, Jorge Morel, Takashi Hiyama (Kumamoto University)*
- 9-16o Input – Output Feedback Linierization Controller For Active Rectifier**
Saidah(ITS, Bhayangkara University), Mauridhi Heri purnomo, Mohamad Ashari (ITS)*
- 9-17o Using Hash Based Method for Efficient Delivery in Content Synchronization among Learning Management Systems Over Limited Bandwidth Network**
Royyana Muslim Ijtihadie(ITS, Kumamoto University), Achmad Affandi, Bekti Cahyo Hidayanto (ITS), Yoshifumi Chisaki, Tsuyoshi Usagawa (Kumamoto University)*
- 9-18o Design criteria for emergency control**
Anuar Bin Mohamad, Takashi Hiyama (Kumamoto University)*
- 9-19o Improvement of Transient Voltage Responses Using an Additional PID-loop on ANFIS-based CC-SVC to Control Chaos and Voltage Collapse in Power Systems**
I Made Ginarsa (Mataram University, ITS, Kumamoto University), Adi Soeprijanto, M.H. Purnomo(ITS), Syafaruddin, T. Hiyama (Kumamoto University)*
- 9-20p Sensorless Maximum Power Point Tracking For Stand Alone Wind Generation System Based on Adaptive Neuro Fuzzy Inference System**
Muldi Yuhendri, M. Ashari and Mauridhi Hery P (ITS)*
- 9-21p Thrust Estimation and Control of Electrically Driven Marine Propellers**
Supari(ITS, Semarang University), H. Suryoatmojo, M. Ashari, I M. Yulistya Negara (ITS), Syafaruddin, T. Hiyama (Kumamoto University)*
- 9-22p MPPT for Photovoltaic Energy Systems Using Fuzzy Logic Controller**
Bambang Sujanarko, Mochamad Ashari, Mauridhi Hery Purnomo, Ontoseno Penangsang, Soebagyo (ITS)*
- 9-23p Fundamental Characteristics of Wind Turbine Generators**
Ryuji Kasahara, Takashi Hiyama (Kumamoto University)*
- 9-24p Genetic Algorithm based Reactive Power and Voltage Control**
Atsushi Shinto, Takashi Hiyama (Kumamoto University)*
- 9-25p Optimal Capacity of Energy Storage System for Smoothing Output Power from Hybrid Power Source**
Masakazu Arimura, Heri Suryoatmojo, Syafaruddin, Takashi Hiyama (Kumamoto University)*

- 9-26p Wavelet based spectra analysis to identified fault in radial distribution system**
Dian Retno Sawitri(ITS, Dian Nuswantoro University), Ketut Eddy Purnama, Mochamad Ashari (ITS)*
- 9-27p Performance of MGS (Medium Grain Scalability) based on the Combined Scalable Video Coding over MIMO-OFDM Systems**
Kalvein Rantelobo, Wirawan, Gamantyo Hendroantoro, Achmad Affandi (ITS)*
- 9-28p Energy Constrained Based Adaptive Quantization For Distributed Estimation In Wireless Sensor Networks**
Eni Dwi Wardhani, Wirawan, Gamantyo Hendrantoro (ITS)*
- 9-29p Behavior Variation Of NPC Soldier Using Box Muller Based Gaussian Distribution**
Supeno Mardi S. N, Nur Kholis M., Moch. Hariadi, Mauridhi H Purnomo (ITS)*
- 9-30p Radial Basis Function-Based Adaptive PI Controller for Reactive Power Compensation**
Istiyo Winarno (ITS, Hang Tuah University), Mauridhi Hery .P (ITS), M. Ashari1 and Takashi Hiyama (Kumamoto University)*
- 9-31p Control Mechanism of the Overlapping Degree for Dynamic Clustering Algorithm in Wireless Sensor Networks**
Amin Suharjono (ITS, Politeknik Negeri Semarang), Wirawan, Gamantyo Hendrantoro(ITS)*
- 9-32p Implementation of Genetic Algorithm in Tuning the Parameters of PID Controller on Networked Control System**
Aditya Tejo Widagdo, Katjuk Astrowulan, Imam Arifin (ITS)
- 9-33p Neuro-Fuzzy ARMA Modeling from Rain Rate Measurement to Simulation Modeling for Earlywarning System in Mataram**
Made Sutha Yadnya (Mataram University), A.Wijayanti, H. Mahmudah (Electronics Engineering Polytechnic Institute of Surabaya), Achmad Mauludiyanto (ITS)*
- 9-34p Optimal Tuning of PID based Power System Stabilizer Using Harmony Search Algorithm**
Frisky Alfarizy, A.M. Benie Zakariya I., Muhammad Abdillah, Imam Robandi (ITS)*
- 9-35p Optimal Coordination Setting PSS and AVR Using Colonial Competitive Algorithm (CCA)**
As'adi, M. Ridha Fauzi, Imam Robandi (ITS)*
- 9-36p Solving Load Dispatch Problem Considering Network Losses Using Imperialist Competitive Algorithm (ICA)**
Mochamad Avid Fassamsi, Muhammad Abdillah, A. M. Benie Zakariya I, Rio Indralaksono, Imam Robandi (ITS)*
- 9-37p Optimal Management Decision for Large Scale Economic Dispatch using Artificial Immune System Clonal Selection Algorithm (AISCSA)**
Rio Indralaksono, Septian Dwiratha, A.M. Benie Zakariya, Faiq Ulfî, Moch. Avid Fassamasi, Imam Robandi (ITS)*
- 9-38p Optimal Coordination Directional Overcurrent Relay using Hybrid Artificial Immune System**
Septian Dwirtha, Mochamad Avid Fassamsi, Rio Indralaksono, Imam Robandi (ITS)*
- 9-39p Optimal Tuning of Capacitive Energy Storage on Wind-Diesel Hybrid Power System on Isolated Area using Particle Swarm Optimization**
Miftakhur Roziq M.D., A.M. Benie Zakariya I, Muhammad Abdillah, Imam Robandi (ITS)*
- 9-40p From Text to Emotional Facial Expression of Life-like Character**
Surya Sumpeno, Mitra Istiar Wardhana, Mochamad Hariadi and Mauridhi Hery Purnomo (ITS)*
- 9-41p Design Quadratic Boost Converter Single Switch For Power Supply 5 kW/700 Volt**
Soedibyo, Feby Agung.P, Heri Suryoatmojo, Imam Robandi, Mochamad Ashari (ITS)*
- 10-1o Acoustic Emission Weibull Analysis for Evaluation of Deteriorated Concrete due to Carbonation**
Ni Nyoman Kencanawati, Mitsuhiro Shigeishi (Kumamoto University)*
- 10-2o High Rate Wastewater Treatment by Upflow Anaerobic Bioreactors Using PVA Gel Beads**
Do Phuong Khanh, Lai Minh Quan, Wenjie Zhang, Kenji Furukawa (Kumamoto University)*

10-3o Frequency Domain Approach for Supplementing Viscous Dampers to an Existing Arch Bridge

Elif Cagda Kandemir, Taiji Matsuda (Kumamoto University)*

10-4o A study on stabilization of soft ground due to embankment load using Deep Cement Mixing columns

Nguyen Thang Ngoc (Ho Chi Minh City University of Technology), Makato Kawamura (Toyohashi University of Technology), Jun Otani (Kumamoto University)*

10-5o Analysis of Water Quality Formation in Coal Mine Pit Lakes, Indonesia

Anik Farida Rahmawati, Rudy Sayoga Gautama (Institute of Technology Bandung)*

10-6o Prediction of Future Water Chemistry in Coal Mine Pit Lakes, Indonesia

Erika K. E. Saputri, Rudy S. Gautama (Institute of Technology Bandung)*

10-7o High rate nitrogen removal from reject water by partial nitrification-anammox

Li Zhang, Jiachun Yang, Kenji FURUKAWA (Kumamoto University)*

10-8o Treatment of high ammonia contained wastewater at ambient temperature

Jiachun Yang, Li Zhang, Kenji Furukawa (Kumamoto University)*

10-9o Seismic Microzonation of Mavisehir District in Izmir-Turkey

Tuğba Eskişar (Ege University)*

10-10o Analysis of Tracer Migration Process in Porous Rock by Means of X-ray CT

Sassa Kazuki, Akira Sato (Kumamoto University)*

10-11o Shallow turbulent flow above 3-kinds of roughness regularly arrayed in an open channel

Sukarno Tohirin, Terunori Ohmoto (Kumamoto University)*

10-12p The Optimal Area-based Network Congestion Pricing Problem: Etermining Optimal Toll Level and Charging Boundary

Ryota Takaki (Kumamoto University)*

11-1o Column-to-Beam Strength Ratio Required for Steel Moment Frames Subjected to Horizontal Bidirectional Ground Motions

Yoshinori Sakai, Minoru Yamanari, Koji Ogawa (Kumamoto University)*

11-2o Computer-assisted Tool for Education of Structural Design

Sho Eguchi, Minoru Yamanari (Kumamoto University)*

11-3o The Evaluation of Pedestrian Area through CTRM Method—A Case Study of Ningbo Tianyi Square

Wei Yu, Kazuhisa IKI, Riken Homma (Kumamoto University), Yan Zhang (Zhejiang Gongshang University)*

11-4o A Study on Architecture of former Tamana High School

Sotaro Yamasaki, Juko Ito, Haruna Saeki (Kumamoto University)*

11-5o The Situation of Real Estate Market in Hangzhou City

Chen CHEN, Kazuhisa IKI, Riken HOMMA (Kumamoto University), Guoxin WANG (Zhejiang Gongshang University)*