

Conference Program

December 11, 2009

Ewha Campus Complex, Ewha Womans University

9:00 - 10:30	Registration (ECC B146)			
Opening Session (ECC B146)				
10:30 - 10:35	Opening Address	Prof. T. Takashima, Kumamoto University		
10:35 - 11:00	Keynote Speech 1	Prof. T. Hiyama, Kumamoto University		
11:00 - 11:15	Welcome Address	President Bae Yong Lee, Ewha Womans University		
11:15 - 11:40	Keynote Speech 2	Prof. J-H. Choy, Ewha Womans University		
11:40 - 12:00	Keynote Speech 3	Prof. Y. Matsumoto, Kumamoto University		
13:30 - 15:15	Oral Session I (Room ECC B155)	Oral Session II (Room ECC B157)	Oral Session III (Room ECC B159)	Oral Session IV (Room ECC B161)
	Paper No. 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7	Paper No. 4-1, 4-2 5-1, 5-2, 5-3, 5-4, 5-5	Paper No. 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7	Paper No. 7-1, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7
15:15 - 15:30	Break			
15:30 - 17:15	Oral Session V (Room ECC B155)	Oral Session VI (Room ECC B157)	Oral Session VII (Room ECC B159)	Oral Session VIII (Room ECC B161)
	Paper No. 8-8, 8-9, 8-10, 8-11, 8-12, 8-13, 8-14	Paper No. 6-1, 6-2, 6-3, 6-4, 6-5, 6-6	Paper No. 3-8, 3-9, 3-10, 3-11, 3-12, 3-13	Paper No. 7-8, 7-9, 7-10 9-1, 9-2, 9-3, 9-4
18:00 - 20:00	Student Exchange Party (Lee Sam Bong Hall in ECC)			

December 12, 2009

Ewha Campus Complex, Ewha Womans University

9:30 - 11:15	Oral Session IX (Room ECC B155) Paper No. 8-15, 8-16, 8-17, 8-18, 8-19, 8-20, 8-21	Oral Session X (Room ECC B157) Paper No. 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7	Oral Session XI (Room ECC B159) Paper No. 3-14, 3-15, 3-16, 3-17, 3-18, 3-19 3-29	Oral Session XII (Room ECC B161) Paper No. 9-5, 9-6, 9-7, 9-8, 9-9, 9-10, 9-11
13:00 - 14:30	Poster Session			
14:30	Closing			

List of Papers

- 2-10 **A bridge between the A.C. conductivity and the fragility index in a poly(ethylene oxide)-based lithium ion conductor**
Jean Leopold Ndeugueu, Masaru Aniya (Kumamoto University)*
- 2-20 **Expectation value of the spin network**
Shinji Yamashita, Takuo Yamamoto (Kumamoto University)*
- 2-30 **Analysis of resonant condition of slow-plasmon resonant-nanostrip**
Ziqian Luo, Yoichi Okuno, Taikei Suyama (Kumamoto University)*
- 2-40 **Determination of the electric field distribution radiated from an antenna inside a water filled ellipsoidal reflector**
Masataka Hirakawa, Masanori Hashimoto, S. H. R. Hosseini, Sunao Katsuki, Hidenori Akiyama, H. Bluhm (Kumamoto University)*
- 2-50 **Magnetic pulse compression circuit generated underwater shock wave focusing for medical applications**
S. Iwasaki, S. H. R. Hosseini, T. Sakugawa, H. Akiyama (Kumamoto University)*
- 2-60 **Embryonic development of *Oryzias latipes* after applying pulsed electric field in a high conductivity medium**
D. K. Kang, S. H. R. Hosseini, S. Nakamitsu, M. Yamanaka, E. Shiraishi, T. Sakugawa, S. Katsuki, H. Akiyama (Kumamoto University)*
- 2-70 **Effects of nanosecond pulsed electric field at low conductivity on the embryonic development of medaka fish**
S. Nakamitsu, S. H. R. Hosseini, D. K. Kang, M. Yamanaka, E. Shiraishi, T. Sakugawa, S. Katsuki, H. Akiyama (Kumamoto University)*
- 2-8p **Application of the bond orbital model to the melting phenomena**
Haruhito Sadakuni, Masaru Aniya (Kumamoto University)*
- 3-10 **Study on phenol reaction of assisted electric discharge plasma in sub-critical water**
T. Ihara, M. Mitsugi, K. Miyaji, T. Kiyan, M. Goto, M. Hara, H. Akiyama (Kumamoto University)*
- 3-20 **Bimolecular triplex of anthracene-modified oligonucleotide conjugate and its application to genome analysis**
Pelin Arslan, Toshihiro Ihara, Akinori Jyo (Kumamoto University)*
- 3-30 **Electrochemical assay of adenosine based on electron transfer difference from conformational changes of aptamers**
Min Sun Choi, Wu Qiong, Sangji Park, In Young Kim, Jinheung Kim (Ewha Womans University)*
- 3-40 **An “Off-On” type UTP/UDP selective fluorescent probe and Its application to monitor glycosylation process**
Xiaoqiang Chen, Min Jung Jou, Juyoung Yoon (Ewha Womans University)*
- 3-50 **Development of new polymer-grafted adsorbents for high-selective liquid chromatography**
Abul K. Mallik, Makoto Takafuji, Tsuyoshi Sawada, Hirotaka Ihara (Kumamoto University)*
- 3-60 **Synthesis of hydroperoxy-2,4-pyrrolidinediones using Mn(III)-catalyzed aerobic oxidation**
Md. Aminul Haque, Hiroshi Nishino (Kumamoto University)*
- 3-70 **Manganese(III) acetate-based intramolecular cyclization of *N*-(oligomethylene)butanamides**
Yosuke Ito, Hiroshi Nishino (Kumamoto University)*
- 3-80 **The synthesis of ZnO nanosheets by exfoliation of inorganic/organic hybrids of ZnO/SDS compounds**
Ozge Altuntasoglu, Shintaro Ida, Yasumichi Matsumoto (Kumamoto University)*

- 3-9o **New form of expanded graphite produced from intercalated compounds of fluorinated graphites**
Ekaterina D. Grayfer, Viktor G. Makotchenko, Albert S. Nazarov (Nikolaev Institute of Inorganic Chemistry), Sung-Jin Kim (Ewha Womans University), Vladimir E. Fedorov (Nikolaev Institute of Inorganic Chemistry)*
- 3-10o **Syntheses and structures of spin crossover iron(II) complexes $[\text{Fe}(\text{HL}^{\text{R or S}})_3]\text{X}_2 (\text{ClO}_4)_2$ with chiral ligand**
Tomotaka Hashibe, Koushiro Nishi, Daisuke Furushou, Naohide Matsumoto (Kumamoto University)*
- 3-11o **Size dependence of gold nanoparticles on electrocatalytic glucose oxidation**
Koichi Yasukawa, Masato Tominaga (Kumamoto University)*
- 3-12o **Synthesis of amphiphilic cyclotriphosphazenes and their platinum conjugates**
Vithal B. Jadhav, Yong Joo Jun, Youn Soo Sohn, Jin Ho Choy (Ewha Womans University)*
- 3-13o **Electrochemical and In situ Mn K-edge X-ray absorption spectroscopy studies of TiO_2 -pillared MnO_2 nanohybrid**
Joo-Hee Kang, Seung-Min Paek, Jin-Ho Choy (Ewha Womans University)*
- 3-14o **Metallosupramolecular assembly consisting of terpyridine derivative and gold complex on Au(111)**
Yuta Ono, Soichiro Yoshimoto, Katsuhiko Nishiyama, Isao Taniguchi (Kumamoto University)*
- 3-15o **Selective catalytic $\text{NO-H}_2\text{-CO-O}_2$ reaction over Pt supported nano material**
A.J. Samed, T. Tanaka, K. Ikeue, M. Machida (Kumamoto University)*
- 3-16o **Thermal and photo alignment behavior of polyethylene imines having azobenzene side chain groups**
Mohammad Kamruzzaman, Yutaka Kuwahara, Tomonari Ogata (Kumamoto University), Seiji Ujiie (Oita University), Seiji Kurihara (Kumamoto University)*
- 3-17o **Photo-switching behavior of multi-bilayered films containing azobenzene-tolane polymer liquid crystal**
Tomomi Shirota, Masaki Moritsugu, Yutaka Kuwahara (Kumamoto University), Tomonari Ogata (Kinki University), Seiji Kurihara (Kumamoto University)*
- 3-18o **Micro manipulation with photoresponsive liquid crystalline film**
Hiroto Nagano, Abu Kausar, Yutaka Kuwahara, Tomonari Ogata, Seiji Kurihara (Kumamoto University)*
- 3-19o **Synthesis of azobenzene-functionalized hyperbranched polymers through A_2+B_3 polymerization approach**
Md. Zahangir Alam, Tomonari Ogata, Yutaka Kuwahara, Seiji Kurihara (Kumamoto University)*
- 3-20p **Morphology improvement of single crystalline Ni and NiCo nanowires**
Hyoban Lee, Bongsoo Kim (KAIST)*
- 3-21p **Comparison of gas sorption properties for porous MOFs constructed from same organic building blocks: $[\text{Cu}_2(\text{BPnDC})_2(\text{bpy})]$ and $[\text{Zn}_2(\text{BPnDC})_2(\text{bpy})]$**
Hye Jeong Park, Myunghyun Paik Suh (Seoul National University)*
- 3-22p **Photo-response properties of one-dimensional azobenzene polymer photonic crystals**
Takeru Ishikawa, Masaki Moritsugu, Yutaka Kuwahara, Tomonari Ogata, Seiji Kurihara (Kumamoto University)*
- 3-23p **Evaluation of carbazole-based HPLC stationary phase through separation of steroids**
Kaori Shingo, Abul K. Mallik, Usha Ghimire Gautam, Tsuyoshi Swada, Makoto Takafuji, Hirotaka Ihara (Kumamoto University)*
- 3-24p **Synthesis and electrochemical properties of hexagonal nickel hydroxide nanosheets**
Yuki Matsuda, Shintaro Ida, Yasumichi Matsumoto (Kumamoto University)*
- 3-25p **Self-supported Ru-carbene complexes for ring-closing metathesis**
Shu-Wei Chen, Sang-gi Lee (Ewha Womans University)*

- 3-26p **DOSY NMR for Monitoring self aggregation of bifunctional organocatalysts: Increasing enantioselectivity with decreasing catalyst concentration**
Ho Sik Rho, Ji Woong Lee, Hyeong Bin Jang, Je Eun Lee, Choong Eui Song (Sungkyunkwan University)*
- 3-27p **Synthesis and characterization of thermosensitive cyclotriphosphazene micelles**
K. Mallikarjuna Reddy, Yong Joo Jun, Youn Soo Sohn, Jin Ho Choy (Ewha Womans University)*
- 3-28p **One-pot synthesis of 2-pyridones via chemo- and regioselective tandem blaise reaction of nitriles with propiolates**
Yu Sung Chun, Ka Yeon Ryu, Young Ok Ko, Joo Yeon Hong, Jongki Hong, Hyunik Shin, Sang-gi Lee (Ewha Womans University)*
- 3-29o **Stereochemical effects of PA-PLX-PA hydrogels on 3D culture of chondrocytes**
Bo Gyu Choi (Ewha Womans University), Dong Keun Han (Korea Institute of Science and Technology), Byeongmoon Jeong (Ewha Womans University)*
- 3-30p **Pulsed electrodeposition of cost-effective Pt-Co nanoparticles and its application as PEMFC cathode catalyst**
Seunghee Woo, In Kim, Sungyool Bong, Hasuck Kim (Seoul National University)*
- 3-31p **Tandem blaise acylation and its application for regioselective synthesis of pyrazoles**
Young Ok Ko, Yu Sung Chun, Sang-gi Lee (Ewha Womans University)*
- 3-32p **Cu²⁺ selective fluorescent sensor based on the Rhodamine Derivative bearing pyrene group**
Wang Fang, Ying Zhou, Youngmee Kim, Sungjin Kim, Juyoung Yoon (Ewha Womans University)*
- 3-33p **Bis-terminal hydroxyl polyethers as all-purpose, multifunctional organic promoters: Applications and mechanistic investigation**
Hailong Yan, Ji Wong Lee, Hyeong Bin Jang, Hong Ki Kim (Sungkyunkwan University), Sung-Woo Park, Sungyul Lee (Kyunghee University), Dae Yoon Chi (Sogang University), Choong Eui Song (Sungkyunkwan University)*
- 3-34p **Spontaneous molecular orientation behavior of azobenzene polymer liquid crystals**
Tetsuro Kawata, Masaki Moritsugu, Yutaka Kuwahara, Tomonari Ogata, Seiji Kurihara (Kumamoto University)*
- 3-35p **Gelation, functionalization, and solution behaviors of nano diamond with ionic liquid**
Cho-Long Park, Ah Young Jee, Minyung Lee, Sang-gi Lee (Ewha Womans University)*
- 3-36p **Synthesis and exfoliation of layered rare-earth hydroxide**
Yuki Sonoda, Shintaro Ida, Yasumichi Matsumoto (Kumamoto University)*
- 3-37p **Fluorescence dual assay of DNA mismatches and potassium ions using an aptamer probe and light switch complex**
Min Sun Choi, Minji Yoon, Jinheung Kim (Ewha Womans University)*
- 3-38p **Inorganic drug delivery system for poorly water-soluble drug and its bioequivalence study**
Oh Y. J., Choy Y. B., Park M. C., Choy J. H. (Ewha Womans University)*
- 3-39p **Electrogenerated chemiluminescence of the ruthenium Tris(2,2)bipyridyl/amines system on a boron-doped diamond whisker electrode**
Yongtak Yang, Yang-Rae Kim, Jeong-wook Oh, Hasuck Kim (Seoul National University)*
- 3-40p **Coumarin based on copper and zinc complexes sensors**
Min Jung Kim, K. M. K. Swamy, Kyung Mi Lee, Arun R. Jagdale, Youngmee Kim, Sung-Jin Kim, Kyung Ho Yoo, Juyoung Yoon (Ewha Womans University)*
- 3-41p **Poorly-soluble drug encapsulated in inorganic nanovehicle and its polymer-coated formulation**
Go Eun Choi, Young Bin Choy, Myung Chul Park, Jin-Ho Choy (Ewha Womans University)*

- 3-42p **Electrochemical detection of dopamine in the presence of ascorbic acid using graphene modified electrodes**
Yang-Rae Kim, Hasuck Kim (Seoul National University)*
- 3-43p **A dream combination for catalysis: highly reactive and recyclable scandium(III) triflate-catalyzed cyanosilylations of carbonyl compounds in an ionic liquid**
Boyoung Y. Park, Ka Yeon Ryu, Jung Hwan Park, Sang-gi Lee (Ewha Womans University)*
- 3-44p **Controlled release and pharmacokinetic studies on inorganic hybrid drug**
Lee J. H., Choy Y. B., Park M. C., Choy J. H. (Ewha Womans University)*
- 4-10 **A neuromorphic electronic circuit simulating the motion segregation in vertebrate retinas**
Hidetaka Yasuoka, Murat Sağ lam, Yuki Hayashida, Kousuke Hirose, Nobuki Murayama (Kumamoto University)*
- 4-20 **A micro-needles made of carbon nanotube bundle for single-cell manipulation**
Kazutoshi Kohira, Tamami Motomura, Sho Harabe, Yuki Hayashida, Nobuki Murayama (Kumamoto University)*
- 4-3p ***In vitro* seed germination of critically endangered verbascum rupicola plant**
Ali ÇAKIR, Nilay ORUÇ, Esin AKÇAM OLUK (Ege University)*
- 4-4p **Mutagenesis and metabolic engineering for the enhanced production of rapamycin in *streptomyces hygroscopicus***
Young Ji Yoo, Won Seok Jung, Eun Ji Kim, Eun Young Ahn, Yeo Joon Yoon (Ewha Womans University)*
- 4-5p **Acute oral toxicity and biodistribution of layered double hydroxide nanoparticles in mice**
In-Sun Kim, Soo-Jin Choi (Seoul Women's University)*
- 4-6p **Study on the detection method of *Aspergillus oryzae*, *Aspergillus Flavus* and *Aspergillus Niger***
Liu Yuehong, Zhang Wenxue (Sichuan University)*
- 4-7p **A simple method for fabrication of nanochannels with UV-cured polymer and ultrathin film PDMS (polydimethyl siloxane)**
So Hyun Kim, Seong-Won Nam, Youn Sang Kim, Seong Ho Kang, Sungsu Park (Ewha Womans University)*
- 4-8p **Innovation and preparation for orange juice of acetic acid**
Lei Zhang, Rong Wang, Wen-xue Zhang (Sichuan University)*
- 4-9p **Development and application of the lycopene**
Ren Ying, Nong Yanyan, Lei Ming (Sichuan University)*
- 4-10p **A review of researches on barley grain beta-glucan**
Nong Yanyan, Ren Ying, Lei Ming (Sichuan University)*
- 4-11p **Engineering of plant-specific phenylpropanoids biosynthesis in *Streptomyces venezuelae***
Ji Hye Paik, Sung Ryeol Park, Jin A Yoon, Mi Sun Ahn, Yeo Joon Yoon (Ewha Womans University)*
- 4-12p **Isolating heterotrophic microalgae from Funan River by using streaking plate combined with different antibacterial methods**
Juan Zeng, Zheng-yun Wu, Wen-xue Zhang (Sichuan University)*
- 4-13p **Effects of green tea polyphenol (-)-epigallocatechin-3-gallate against *Escherichia coli* O157:H7 at sub-Minimum Inhibitory Concentrations (sub-MICs)**
Cui Yidan, Jeusun Lim, Seong-Won Nam, Sungsu Park (Ewha Womans University)*
- 4-14p **Genetic reconstruction of mycinose biosynthetic route by heterologous expression of its biosynthetic gene set in *Streptomyces venezuelae***
Eun Ae Choi, Yeon Hee Ban (Ewha Womans University), Ah Reum Han (Seoul National University), So Ra Lee, Eunji Kim, Yeo Joon Yoon (Ewha Womans University)*

- 4-15p **Molecular identification of four acidogenic bacteria**
Si Shi, Hong Li, Wen-xue Zhang (Sichuan University)*
- 5-10 **Analysis of precipitation effects on groundwater level in Kumamoto area using geostatistics**
Mst. Mahmuda Parvin, Naoyuiki Tadakuma, Katsuaki Koike (Kumamoto University)*
- 5-20 **Visualization of groundwater and geothermal surfaces structures over Kyushu Island by geostatistical techniques**
Naoyuki Tadakuma, Katsuaki Koike (Kumamoto University)*
- 5-30 **Advanced detection of lava dome eruption by image processing of SAR intensity data**
Asep Saepuloh, Katsuaki Koike (Kumamoto University)*
- 5-40 **Characterization of fracture distributions around the 2008 Sichuan earthquake epicenter (China) using STA**
Wang Ling, Katsuaki Koike (Kumamoto University)*
- 5-50 **Rapid assessment of the secondary mountain disasters caused by earthquake based on multi-source remote sensing images**
Tian Bingwei, Katsuaki Koike (Kumamoto University)
- 6-10 **Non-covalent high conjugation system by self-assembled molecular gels with L-glutamide-functionalized thiophene derivatives**
Koji Miyamoto, Hirokuni Jintoku (Kumamoto University), Takashi Sagawa (Kyoto University), Tsuyoshi Sawada, Makoto Takafuji, Hirotaka Ihara (Kumamoto University)*
- 6-20 **Phase transformation and mechanical properties of Ti-Al-Nb alloys available for reversible interconnection in iron base composite materials**
H. Nemoto, T. Sako, Y. Morizono, S. Tsurekawa (Kumamoto University)*
- 6-30 **Electrical properties of CdTe grain boundaries**
Satoshi Oda (Kumamoto University), Takashi Sekiguchi (National Institute for Materials Science), Sadahiro Tsurekawa (Kumamoto University)*
- 6-40 **Grain boundary engineering for controlling microstructure in 12 wt.% Cr ferritic steel**
Yu Kinoshita, Victoria Yardley, Sadahiro Tsurekawa (Kumamoto University)*
- 6-50 **Non-destructive evaluation of damaged concrete due to freezing and thawing by the elastic-wave methods**
Naoki Goto, Sho Noguchi, Masayasu Ohtsu (Kumamoto University)*
- 6-60 **Discrimination of acoustic emission (AE) source between existing cracks and new nucleated cracks**
Ni Nyoman Kencanawati, Mitsuhiro Shigeishi (Kumamoto University)*
- 6-7p **Separation and recovery of Nd and Y from Mg-Zn-Y-Nd alloy**
Yasuhiro Hinokuma, Masayasu Kawahara (Kumamoto University)*
- 6-8p **Growth of ZnO nanowires containing gold nanoparticles using block copolymer templates**
Saji Thomas Kochuveedu, Dong Ha Kim (Ewha Womans University)*
- 6-9p **Structure- and morphology-controlled synthesis of 1D nanostructured manganese oxides using $\text{LiMn}_{2-x}\text{Cr}_x\text{O}_4$ precursors**
In Young Kim, Tae Woo Kim, Myong A Woo, Seong-Ju Hwang (Ewha Womans University)*
- 6-10p **Sepiolite-like nanoclay derived from hydrotalcite-like layered double hydroxide: Sepiocite**
Dae-Hwan Park, Myung Wook Jang, Yong-Gun Shul, Jin-Ho Choy (Ewha Womans University)*
- 6-11p **Fabrication of bismuth telluride nanowires by pulsed electrodeposition in porous anodic alumina templates**
Ha-Yeong Kim, Sung-Jin Kim (Ewha Womans University)*

- 6-12p In-situ TEM study of phase transitions in Ag₂Te nanowires**
Juneho In, Youngdong Yoo (KAIST), Jin-Gyu Kim (KBSI), Kwanyong Seo, Hyotchel Ihee (KAIST), Sang Ho Oh (KBSI & POSTECH), Bongsoo Kim (KAIST)*
- 6-13p Graphene supported electrocatalysts for methanol oxidation**
Sungyool Bong, Yang-Rae Kim, In Kim, Seunghee Woo (Seoul National University), Sunghyun Uhm, Jaeyoung Lee (Gwangju Institute of Science and Technology), Hasuck Kim (Seoul National University)*
- 6-14p Enhanced photocatalytic properties of hybrid core/shell SiO₂/Au-TiO₂ nanostructures**
Min-Ah Cha, Dong Ha Kim (Ewha Womans University)*
- 6-15p Soft chemical exfoliation route to the nanosheets, nanoparticles, and porous films of cobalt oxide**
Min-Sun Song, Tae Woo Kim, Kyung Min Lee, Seong-Ju Hwang (Ewha Womans University)*
- 6-16p LSPR properties of multilayers of Ag nanoparticles fabricated by sequential deposition of blockcopolymer micelle templates**
Juyon Lee, Dong Ha Kim (Ewha Womans University)*
- 7-10 Bird sounds identification using wavelet**
Sun Rong (Kumamoto University)*
- 7-20 Development of KUMA system for converting PowerPoint with narration to streaming contents**
Yuki Akitomi, Tsuyoshi Kiyari, Yasuhiro Ohsima, Mamoru Suemitsu, Kazutake Kozono, Seiichi Kamaga, Hidenori Akiyama (Kumamoto University)*
- 7-30 Synchronization of multiple learning management systems in order to share the learning contents over band limited network**
Kazuyoshi Sonoda, Toshiro Ishimura (Kumamoto University), Bektı Cahyo Hidayanto, Achmad Affandi (ITS), Yoshifumi Chisaki, Tsuyoshi Usagawa (Kumamoto University)*
- 7-40 Implementation of frequency domain binaural model to a portable information device**
Duc Nguyen Van, Tomohisa Mashima, Yoshifumi Chisaki, Tsuyoshi Usagawa (Kumamoto University)*
- 7-50 Time frequency modeling of Gamelan instrument based on spectral density for automatic notation**
Yoyon K Suprpto, Mochamad Hariadi (ITS), Tsuyoshi Usagawa (Kumamoto University)*
- 7-60 Stream duplication as an alternative approach to provide reliability and availability support in MySQL database server**
Royyana Muslim Ijtihadie, Yoshifumi Chisaki, Tsuyoshi Usagawa (Kumamoto University)*
- 7-70 A case study of error correction method for SRAM-based FPGA using the partial reconfiguration**
Noritaka Kai, Yoshiaki Tsutsumi, Motoki Amagasaki, Morihiro Kuga, Toshinori Sueyoshi (Kumamoto University)*
- 7-80 A low power FPGA routing structure based on the small-world network**
Shoichi Nishida, Yuzo Nishioka, Motoki Amagasaki, Masahiro Iida, Toshinori Sueyoshi (Kumamoto University)*
- 7-90 An analysis of LUT redundancy on FPGA technology mapping**
Kota Kato, Masaki Shintani, Motoki Amagasaki, Masahiro Iida, Toshinori Sueyoshi (Kumamoto University)*
- 7-100 Implementation of a pain sensing model of human skin**
Nobutomo Matsunaga, Tarik Zengin Aydin, Shigeyasu Kawaji (Kumamoto University)*
- 7-11p A novel method for steady-state stability limit assessment**
Indar Chaerah Gunadin, Adi Suprijanto, Ontoseno Penangsang (ITS)*
- 8-10 Development of miniature Marx generator using BJTs**
M. Inokuchi, T. Ueno, M. Akiyama, S. Babasaki, T. Sakugawa, H. Akiyama (Kumamoto University)*

- 8-20 **Evaluation of the power semiconductor switch in the 5J pulsed power generator of magnetic pulse compression system**
S. Ueda, A. Kouda, T. Sakugawa, H. Akiyama (Kumamoto University)*
- 8-30 **Enlargement of stability margin region by using the damping ratio and damping factor**
Wei Zhang, Ibrahim Sefik, Taiji Yatake, Takashi Hiyama (Kumamoto University)*
- 8-40 **Voltage stability analysis in power system using two-port network equivalent**
Herbert Innah, Takashi Hiyama (Kumamoto University)*
- 8-50 **Observability analysis using loop technique**
Anuar Bin Mohamad, Takashi Hiyama (Kumamoto University)*
- 8-60 **Effect of ECS on eigenvalue based power system stabilization monitoring system**
Ibrahim Sefik, Wei Zhang, Takashi Hiyama (Kumamoto University)*
- 8-70 **A study on model identification of electric power system with different orders**
Taiji Yatake, Wei Zhang, Takashi Hiyama (Kumamoto University)*
- 8-80 **Reactive power compensation using neural network-based fixed capacitor-thyristor controlled reactor**
Istiyono Winarno, Mauridhi Hery Purnomo, Ashari Mohamad (ITS), Takashi Hiyama (Kumamoto University)*
- 8-90 **Shunt active power filter control using radial basis function neural network**
A. U. Krismanto, M. Ashari, M. H. Purnomo (ITS), T. Hiyama (Kumamoto University)*
- 8-100 **String and central inverter configuration of PV array under partially shaded conditions**
Syafaruddin (Kumamoto University), Engin Karatepe (Ege University), Takashi Hiyama (Kumamoto University)*
- 8-110 **Blackouts simulation of Java and Bali power system 500 kV and recommendation to improve the security**
Hartono, Adi Suprijanto, Ontoseno Penangsang (ITS)*
- 8-120 **Fuzzy logic based individual pitch angle control for wind turbine fatigue load reduction**
Jorge Morel, Takashi Hiyama (Kumamoto University)*
- 8-130 **Robust method for optimal sizing of hybrid power generation system based on particle swarm optimization**
Heri Suryoatmojo (Kumamoto University), Adel A. Elbaset (Minia University), Syafaruddin, Takashi Hiyama (Kumamoto University)*
- 8-140 **Characteristics of combustion mode transition by changing EGR rate in low temperature diesel combustion**
Kihyun Kim, Sangwook Han, Jinyoung Jang, Jeongseo Park, Choongsik Bae (KAIST)*
- 8-150 **Determination of persistent benzotriazole UV stabilizers in wastewater treatment plants in Japan**
Ryuichi Shinohara, Haruhiko Nakata (Kumamoto University)*
- 8-160 **Optimum strength distribution of structural members in steel frames with column bases of relatively weak strength**
Masayo Yokoo, Koji Ogawa (Kumamoto University)*
- 8-170 **A study on LUCC and landscape pattern change of Hangzhou Xixi urban wetland during 1991 to 2005**
Qijia Lou (Kumamoto University), Qian Cheng (Zhejiang Gongshang University), Kazuhisa Iki, Riken Honma (Kumamoto University)*
- 8-180 **Research on the correlation of private economy and urbanization--A case study in Zhejiang**
Jun Ye (Kumamoto University), Chunbin Wang (Zhejiang Gongshang University), Kazuhisa Iki, Riken Honma (Kumamoto University)*

- 8-19o **A study on criteria setting for abolishing a bus route**
Chang Yong Jung, Eui Young Shon, Jae Young Kim (University of Seoul)*
- 8-20o **Patterns of travel: Trip chains in Incheon**
Jhieon Sohn, Seungjae Lee, Jong-hyung Kim (University of Seoul)*
- 8-21o **Evaluation of urban compact level with a view to sustainable development**
Yanhong Yin, Shoshi Mizokami (Kumamoto University)*
- 8-22p **Dilute wastewater treatment by anaerobic attached growth reactor using PVA-gel beads under high loading rates**
Do Phuong Khanh, Kazuya Kamishima, Kenji Furukawa (Kumamoto University)*
- 8-23p **Generic frame model for simulation of earthquake response of 3D steel frames**
Mitsutoshi Fukuda, Koji Ogawa (Kumamoto University)*
- 8-24p **Artificial intelligent based modeling of mobile solar tracker for a large ship**
Budhy Setiawan, Mauridhi Heri Purnomo, Mohamad Ashari (ITS)*
- 8-25p **Awareness survey of structural engineers on computer-assisted design in Kyushu**
Sho Eguchi, Kouichi Harada, Minoru Yamanari (Kumamoto University)*
- 8-26p **A test rig for the measurement of dynamic stress-strain relation of stainless steels -Fundamentals-**
Yusuke Ninomiya, Masataka Nakao, Teruaki Yamada, Masatoshi Kuroda, Kazuya Mori (Kumamoto University)*
- 8-27p **A test rig for the measurement of dynamic stress-strain relation of stainless steels-Applications-**
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