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Published Papers

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A1 Enhancement of Energy Coupling Efficiency in Fast-Ignition Laser Fusion by Electron Beam Guiding with Self-Generated Magnetic Field	Tomoyuki Johzaki Atsushi Sunahara Hideo Nagatomo Hitoshi Sakagami Shinsuke Fujioka Hiroyuki Shiraga Kunioki Mima	J. Plasma Fusion Res., 89 , 7 (2013) pp. 456-461
A2 Present status of fast ignition realization experiment and inertial fusion energy development	Hiroshi Azechi Kunioki Mima Hiroyuki Shiraga Shinsuke Fujioka Hideo Nagatomo Tomoyuki Johzaki Takahisa Jitsuno Michael H. Key Ryosuke Kodama Mayuko Koga Kiminori Kondo Junji Kawanaka Noriaki Miyanaga Masakatsu Murakami Keiji Nagai Mitsuo Nakai Hirotaka Nakamura Tatsufumi Nakamura Tomoharu Nakazato Yasuyuki Nakao Katsunobu Nishihara Hiroaki Nishimura Takayoshi Norimatsu Peter Norreys Tetsuo Ozaki John Pasley Hitoshi Sakagami Youichi Sakawa Nobuhiko Sarukura Keisuke Shigemori Toshihiko Shimizu Atsushi Sunahara Toshihiro Taguchi Kazuo Tanaka Kouji Tsubakimoto Yasushi Fujimoto Hirofumi Homma Akifumi Iwamoto	Nuclear Fusion, 53 , 10 (2013) pp. 104021
A3 Effects of laser profiles on fast electron generation under the same laser energy	Masayasu Hata Hitoshi Sakagami Tomoyuki Johzaki Hideo Nagatomo	Laser and Particle Beams, 31 , 03 (2013) pp. 371-377

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A4 Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma	Zhe Zhang Hiroaki Nishimura Takuya Namimoto Shinsuke Fujioka Yasunobu Arikawa Hideo Nagatomo Mitsuo Nakai Tetsuo Ozaki Mayuko Koga Tomoyuki Johzaki Atsushi Sunahara H. Chen J. Park G. J. Williams Hiroyuki Shiraga Sadaoki Kojima Masaharu Nishikino Tetsuya Kawachi Hirokazu Hosoda Yasuaki Okano Noriaki Miyanaga Junji Kawanaka Yoshiki Nakata Takahisa Jitsuno Hiroshi Azechi	HIGH ENERGY DENSITY PHYSICS, 9 , 3 (2013) pp. 435-438
A5 Computational study of strong magnetic field generation in a nonspherical, cone-guided implosion	Hideo Nagatomo Tomoyuki Johzaki Atsushi Sunahara Hitoshi Sakagami Kunioki Mima Hiroyuki Shiraga Hiroshi Azechi	Nuclear Fusion, 53 , 6 (2013) pp. 063018
A6 Analysis of Laser Wavelength and Energy Dependences of the Impulse in a Magnetic Thrust Chamber System for a Laser Fusion Rocket	Akihiro Maeno Naoji Yamamoto Shinsuke Fujioka Yoshitaka Mori Atsushi Sunahara Tomoyuki Johzaki Hideki Nakashima	TRANSACTIONS OF THE JAPAN SOCIETY FOR AERONAUTICAL AND SPACE SCIENCES, 56 , 3 (2013) pp. 170-172
A7 Kilot Tesla Magnetic Field due to a Capacitor-Coil Target Driven by High Power Laser	Shinsuke Fujioka Zhe Zhang Kazuhiro Ishihara Keisuke Shigemori Youichiro Hironaka Tomoyuki Johzaki Atsushi Sunahara Naoji Yamamoto Hideki Nakashima Tsuguhiro Watanabe Hiroyuki Shiraga Hiroaki Nishimura Hiroshi Azechi	SCIENTIFIC REPORTS, 3 (2013) pp. 1170
A8 Effects of laser temporal profile on fast electron characteristics	Masayasu Hata Hitoshi Sakagami Tomoyuki Johzaki Hideo Nagatomo	EPJ Web of Conferences, 59 (2013) pp. 17004
A9 Suppression effects of Weibel instability for fast electron divergence	Hitoshi Sakagami Tomoyuki Johzaki Toshihiro Taguchi Kunioki Mima	EPJ Web of Conferences, 59 (2013) pp. 17016
A10 Optimum design of imploded core plasma for effective fast ignition at GXII	Hideo Nagatomo Tomoyuki Johzaki Atsushi Sunahara Hitoshi Sakagami Takumi Yanagawa Kunioki Mima	EPJ Web of Conferences, 59 (2013) pp. 03007

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A12 Fast electron beam guiding for effective core heating	Tomoyuki Johzaki Atsushi Sunahara Shinsuke Fujioka Hideo Nagatomo Hitoshi Sakagami Kunioki Mima	EPJ Web of Conferences 59 , 59 (2013) pp. 03010
A13 Propagation of Sinusoidally-Corrugated Shock Fronts of Laser-Supported Detonations	T. Honda A. Kawaguchi Y. Hanta A. Susa S. Namba T. Johzaki T. Endo H. Shiraga K. Shigemori M. Koga H. Nagatomo	The 29th International Symposium on Shock Waves, (2013)
A14 Thermal Spray by Pulsed Detonations	T. Endo	2013 International Workshop on Detonation for Propulsion, (2013) pp. 190-200
A15 Development of a High Frequency Pulse Detonation Combustor by a Liquid Purge Method	K. Matsuoka T. Mukai T. Endo	2013 International Workshop on Detonation for Propulsion, (2013) pp. 312-318
A16 Liquid-Purge Method in High Frequency Valveless Pulse Detonation Engine	K. Matsuoka T. Mukai T. Endo	Proceedings of the 24th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2013)
A17 Velocity Deficits of Ar and He Diluted H ₂ -O ₂ System in Small Diameter Tubes	K. Sadahira Y. Kitawaki T. Inaba A. Susa K. Matsuoka T. Johzaki T. Endo	Proceedings of the 24th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2013)
A18 Efficient multi-keV X-ray generation from high-contrast laser plasma interaction	Zhe. Zhang Hiroyuki Nishimura Masaharu Nishikino Atsushi Sunahara Tomoyuki Johzaki H-B. Cai Tetsuya Kawachi Alexander Pirozhkov Akito Sagisaka Satoshi Orimo Kouichi Ogura Akifumi Yogo Yasuaki Okano Shinsuke Ohshima Shinsuke Fujioka Hiromitsu Kiriyama Kiminori Kondo Takuya Shimomura Shuhei Kanazawa	EPJ Web of Conferences, 59 (2013) pp. 18003

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A20 Deformation mode dependency on strain rate sensitivity of volume resistivity in TRIP steel	Takeshi Iwamoto Shiro Yamanaka Alexis Rusinek	Key Engineering Materials, 535-536 (2013) pp. 473-476
A21 An experimental evaluation on change in impedance of TRIP steel subjected to plastic deformation at various strain rates	Daiki Inoshita Shiro Yamanaka Takeshi Iwamoto	Key Engineering Materials, 535-536 (2013) pp. 445-448
A22 An experimental study on rate sensitivity of J-integral and its evaluation by small punch test for TRIP steel	Leishi Shi Takeshi Iwamoto Shinya Hashimoto	Engineering Transactions, 61 , 2 (2013) pp. 119-136
A23 Autoparametric resonances of elastic structures coupled with two sloshing modes in a square liquid tank	Takashi Ikeda Masaki Takashima Yuji Harata	Trans. ASME, J. Computational and Nonlinear Dynamics, 8 , 1 (2013) pp. 011007-1-011007-13
A24 Nonlinear liquid sloshing in square tanks subjected to horizontal random excitation	Takashi Ikeda Yuji Harata Raouf A. Ibrahim	Nonlinear Dynamics, 72 , 1-2 (2013) pp. 439-453

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A25 Intrinsic localized modes of harmonic oscillations in pendulum-arrays subjected to horizontal excitation	Takashi Ikeda Yuji Harata Keisuke Nishimura	Proceedings of the ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2013), (2013)
A26 Localization phenomena of nonlinear vibrations in three-blade wind turbines	Takashi Ikeda Yuji Harata Hisashi Takahashi Yukio Ishida	Proceedings of the ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2013), (2013)
A27 Intrinsic localized modes of harmonic oscillations in nonlinear oscillator arrays	Takashi Ikeda Yuji Harata Keisuke Nishimura	Trans. ASME, J. Computational and Nonlinear Dynamics, 8 , 4 (2013) pp. 041007-1-041007-12
A28 FEM stress analysis and strength prediction of scarf adhesive joints under static bending moments	Hiroko Nakano Yasuhisa Sekiguchi Toshiyuki Sawa	International Journal of Adhesion and Adhesives, 44 (2013) pp. 166-173
A29 Studies on an automobile muffler with the acoustic characteristic of low-pass filter and Helmholtz resonator	Takashi Yasuda Chaoqun Wu Noritoshi Nakagawa Kazuteru Nagamura	Applied Acoustics, 74 , 1 (2013) pp. 49-57
A30 Noise Reduction through Elastically Restraints Sandwich Polycarbonate Window Pane into Rectangular Cavity	Min Shen Kazuteru Nagamura Noritoshi Nakagawa Masaharu Okamura	Journal of Vibration and Control, 19 , 3 (2013) pp. 415-428
A31 Simulation on the vibration characteristics of elliptical gears	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 227 , 4 (2013) pp. 819-830
A32 Design of compact micro-perforated membrane absorbers for polycarbonate pane in automobile	Shen Min Kazuteru Nagamura Noritoshi Nakagawa Masaharu Okamura	Applied Acoustics, 74 , 4 (2013) pp. 622-627
A33 Development of a Damage Diagnosis for Gear using a Laser Beam (A Proposal for a Method of Creating Benchmark Data to be used in Diagnosis)	Eiichirou Tanaka Yuta Kojima Kazunari Okabe Hitoshi Takebe Satoshi Wada Kazuteru Nagamura Kiyotaka Ikejo	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 7 , 3 (2013) pp. 348-361
A34 A Statistical Approach to Damage Diagnosis of Gear	Qingrong Fan Kazuteru Nagamura Kiyotaka Ikejo Masato Kawada Mitsuo Hashimoto	Proceedings of The 3rd Japan-Korea Joint Symposium on Dynamics & Control, August 27-28, 2013, FUKUOKA, JAPAN, (2013) pp. 227-230
A35 A Prediction Method of Wear on Tooth Surface for Spur Gears	Shotaro Inoue Kiyotaka Ikejo Kazuteru Nagamura Natsuhiko Seyama Shinya Nakagawa	Proceedings of the ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference IDETC/CIE 2013, August 4-7, 2013, Portland, Oregon, USA, ASME Paper No. DETC2013-12748, (2013)
A36 Development of a Diagnosis Method of a Gear Tooth Surface by Predicting Laser Beam Reflection	Eiichirou Tanaka Yuta Kojima Hiroki Yoshimi Kazunari Okabe Hitoshi Takebe Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of the ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference IDETC/CIE 2013, August 4-7, 2013, Portland, Oregon, USA, ASME Paper No. DETC2013-12993, (2013)

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A37 Vibration Characteristics of Elliptical Gears	Kiyotaka Ikejo Kazuteru Nagamura	Proceedings of International Conference on Gears Europe invites the World, October 7th to 9th, 2013, Technical University of Munich (TUM) Garching (near Munich), Germany, VDI-Berichte 2199.2, (2013) pp. 1505-1508
A38 Development of an automatic remote diagnostic system for a gear tooth surface using a laser beam and the reflection prediction method	Eiichirou Tanaka Yuta Kojima Kazunari Okabe Hitoshi Takebe Satoshi Wada Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of International Conference on Gears Europe invites the World, October 7th to 9th, 2013, Technical University of Munich (TUM) Garching (near Munich), Germany, VDI-Berichte 2199.2, (2013) pp. 993-1004
A39 Methane/Oxygen Combustion in a Rapidly Mixed Type Tubular Flame Burner	Baolu Shi Daisuke Shimokuri Satoru Ishizuka	Proceedings of the Combustion Institute, 34 (2013) pp. 3369-3373
A40 Reexamination on Methane/Oxygen Combustion in a Rapidly Mixed Type Tubular Flame Burner	Baolu Shi Daisuke Shimokuri Satoru Ishizuka	Combustion and Flame, (2013)
A41 An Experimental Investigation on the Rapidly Mixed Type Tubular Flame Combustion under High Oxygen Mole Fractions	Baolu Shi Daisuke Shimokuri Youichi Ogata Keiya Nishida Satoru Ishizuka	9th Asia-Pacific Conference on Combustion, (2013)
A42 An Experimental Study on A Self-recirculation Type Low NOx Tubular Flame Burner	Hong Wei Peng Baolu Shi Daisuke Shimokuri Satoru Ishizuka	9th Asia-Pacific Conference on Combustion, (2013)
A43 An Experimental Study on the Heating Process with A Tubular Flame	Jie Hu Baolu Shi Daisuke Shimokuri Satoru Ishizuka	9th Asia-Pacific Conference on Combustion, (2013)
A44 Characterization of Spray and Combustion Processes of Biodiesel Fuel Injected by Diesel Engine Common Rail System	Olawole Abiola Kuti Jingyu Zhu Keiya Nishida Xiangang Wang Zuohua Huang	Fuel, 104 (2013) pp. 836-836
A45 Experimental studies on spray and gas entrainment characteristics of biodiesel fuel: Implications of gas entrained and fuel oxygen content on soot formation	Olawole Abiola Kuti Keiya Nishida Jingyu Zhu	Energy, 57 (2013) pp. 434-442
A46 Effect of Spray/Wall Interaction on Diesel Combustion and Soot Formation in Two-Dimensional Piston Cavity	Kuichun Li Masaki Ido Youichi Ogata Keiya Nishida Baolu Shi Daisuke Shimo	SAE Int. J. Engines, 6(4) (2013) pp. 2061-2071
A47 Cross-flow Effect on Behavior of Fuel Spray Injected by Hole-Type Nozzle for D.I. Gasoline Engine	Min Guo Ryousuke Kishi Baolu Shi Youichi Ogata Keiya Nishida	SAE Technical Paper, (2013)
A48 Mixture formation processes of gasoline/ethanol blended fuel spray injected by hole-type nozzle for D.I. gasoline engines	Run Chen Masaharu Chato Keiya Nishida Youichi Ogata Baolu Shi	The 16th Annual Conference of the Institute for Liquid Atomization and Spray Systems-Asia, (2013) pp. 164-169
A49 Effect of ignition processes on combustion characteristics of spray injected by hole-type nozzle for DISI engine.	Run Chen Hajime Kataoka Keiya Nishida Youichi Ogata	Proceeding of the 9th Asia-Pacific Conference on Combustion, (2013)

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A50 Effects of Wall Impingement on Diesel Spray Characteristics	Kuichun Li Takeru Matsuo Masaki Ido Keiya Nishida Youichi Ogata Baolu Shi	The 16th Annual Conference of the Institute for Liquid Atomization and Spray Systems-Asia, (2013) pp. 25-31
A51 Fuel Spray Combustion of Waste Cooking Oil and Palm Oil Biodiesel: Direct Photography and Detailed Chemical Kinetics	Olawole Abiola Kuti Keiya Nishida Mani Sarathy Jingyu Zhu	SAE/KSAE International Powertrains, Fuels and Lubricants Meeting, (2013)
A52 Numerical Investigation of Effective Deformation on Propulsion and Acceleration of Fish-like Foil	Youichi OGATA	Proc. of the 17th International Conference on Finite Elements in Flow Problems (FEF 2013), (2013)
A53 Cooperative Transport by a Swarm Robotic System Based on CMA-NeuroES Approach	Tian Yu Toshiyuki Yasuda Kazuhiro Ohkura Yoshiyuki Matsumura Masanori Goka	Journal of Advanced Computational Intelligence and Intelligent Informatics, 17 , 6 (2013) pp. 932-942
A54 Generating Cooperative Collective Behavior in Swarm Robotic Systems	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura	Journal of Advanced Computational Intelligence and Intelligent Informatics, 17 , 5 (2013) pp. 699-706
A55 A (μ, λ) Evolutionary and Particle Swarm Hybrid Algorithm Over Cloud Computing, with an Application to Dinosaur Gait Optimization	Yoshiyuki Matsumura Kiyotaka Sugiyama Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of 2013 IEEE/SICE

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A65 Data-driven loop-shaping design of PID controllers for stable plants	Masami Saeki	International Journal of Adaptive Control and Signal Processing(Wiley Online), (2013)
A66 Gait generation via unified learning optimal control of Hamiltonian systems	Satoshi Satoh Kenji Fujimoto Sang-Ho Hyon	Robotica, 31 , 5 (2013) pp. 717-732
A67 Passivity based control of stochastic port-Hamiltonian systems	Satoshi Satoh Kenji Fujimoto	IEEE Transactions on Automatic Control, 58 , 5 (2013) pp. 1139-1153
A68 Reconfigurable Fault-tolerant Controller Synthesis for a Steer-by-wire Vehicle Using Independently Driven Wheels	Nobutaka Wada Kosuke Fujii Masami Saeki	Vehicle System Dynamics, 51 , 0 (2013) pp. 1438-1465
A69 Applying Constant Pressure Unit to Ductile Mode Cutting	Kunitaka Kuriyama Masahiko Fukuta Katsuhiko Sekiya Keiji Yamada Yasuo Yamane	Int. J. of Automation Technology, 7 , 3 (2013) pp. 278-284
A70 A Basic Study on the Relations Between Machining Conditions	Jie Xu Keiji Yamada Katsuhiko Sekiya Ryutaro Tanaka Yasuo Yamane	Int. J. of Automation Technology, 7 , 3 (2013) pp. 345-352
A71 Permeability Control Method with Laser for Porous Bushings of Aerostatic Bearings	Keiji YAMADA Nobuyuki Onishi Katsuhiko SEKIYA Yasuo YAMANE	Int. J. of Precision Eng. and Manufacturing, 14 , 5 (2013) pp. 779-784
A72 Drill Wear Prediction with Features Extracted from the Static & Dynamic Components of Forces by Wavelet Packet Transform Using Back Propagation Neural Network	Jie Xu Keiji Yamada Katsuhiko Sekiya Ryutaro Tanaka Yasuo Yamane	Proc. of the 7th Int. Conf. on Leading Edge Manufacturing in 21st Century, (2013) pp. 452-456
A73 Effects of Tool Edge Geometry on Cutting Temperature in Continuous Cutting of Case Hardened Steel	Ryutaro Tanaka Akira Hosokawa Tatsuaki Furumoto Takahi Ueda	International Journal of Automation Technology, 7 , 3 (2013) pp. 313-320
A74 Wear Characteristics of Ceramic Tools When Turning BN Free-machining Steel	Ryutaro Tanaka Akira Hosokawa Tatsuaki Furumoto Takashi Ueda	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 7 , 3 (2013) pp. 474-484
A75 Analysis of Cutting Behavior during Tapping and Measurement of Tool Edge Temperature Measured by a Two-Color Pyrometer	Ryutaro Tanaka Shuhei Yamazaki Akira Hosokawa Tatsuaki Furumoto Takashi Ueda Masato Okada	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 7 , 2 (2013) pp. 115-124
A76 Job Shop Scheduling with Capacity Adjustment -An efficient search method using the mixture of GA and priority rule and its performance evaluation using Lagrangian relaxation method-	Toru Eguchi Mitsunobu Yoda Yusuke Yamamoto Takeshi Murayama	Proceedings of the 7th International Conference on Leading Edge Manufacturing in 21st Century (LEM21), (2013) pp. 571-575
A77 Computer-aided Technique for the Design and Manufacturing of Auricular Prostheses	Takeshi Murayama Masamine Ogasawara Toru Eguchi Yuji Morishita Mitsuhiro Tamamoto	IFMBE Proceedings, 43 (2013) pp. 593-596

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B1 The Effect of Welding Conditions on Solidification Cracking Susceptibility of Type 310S Stainless Steel during Laser Welding Using In-situ Observation Technique	Kota Kadoi Akira Fujinaga Kenji Shinozaki Motomichi Yamamoto	Welding in the world, 57 , 3 (2013) pp. 383-390
B2 Development of Heat Source Model for Narrow Gap Hot-wire Laser Welding Method	Rittichai Phaoniam Masayuki Yamamoto Kenji Shinozaki Motomichi Yamamoto Kota Kadoi	Quarterly Journal Japan Welding Society, 31 , 4 (2013) pp. 82s-85s
B3 Material Flow on Dissimilar Friction Stir Spot Welded Joints of Mg Alloys	Keiichirou Shigematsu Motomichi Yamamoto Kenji Shinozaki Kota Kadoi	Quarterly Journal Japan Welding Society, 31 , 4 (2013) pp. 69s-72s
B4 Development of WC Hardface Welding Process using Hot-Wire GTA Welding System	Gao Shuai Hirotaka Nakashin Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Hiroshi Watanabe Tatsunori Kanazawa	Quarterly Journal Japan Welding Society, 31 , 4 (2013) pp. 57s-60s
B5 In-Situ Temperature Measurement using Monochrome High-speed Image Sensors during Laser Welding	Shotaro Yamashita Akira Fujinaga Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Kenji Mitsui Hiroyuki Usui	Quarterly Journal Japan Welding Society, 31 , 4 (2013) pp. 78s-81s
B6 Control of Electrical and Thermal Properties on Sn-50Zn Alloy by 8vol% Al ₂ O ₃ Addition for Pb-Free AC Low Voltage Fuse Elements	K. Matsugi Y. Saki Y. B. Choi G. Sasaki K. Suetsugu K. Fujii	Materials Transactions, 54 , 2 (2013) pp. 231-237
B7 Properties-Control of Ti Comacts in Spark Sintering Process	K. Matsugi A. Hiraiwa Y. B. Choi G. Sasaki H. Kuramoto	Materials Transactions, 54 , 2 (2013) pp. 130-136
B8 Development of Intermetallic Compounds Reinforced Al alloy Composites Using Reaction of Porous Nickel and Aluminum	Y. B. Choi K. Matsugi G. Sasaki	Materials Transactions, 54 , 4 (2013) pp. 595-598
B9 Anisotropy of CVI- and NITE-SiC/SiC Composite by Various Failure Modes	Yong Bum Choi Tatsuya Hinoki Takashi Nozawa Kazuhiro Matsugi Tulugan Kelimu Won Jo Park	9th International Conference on Fracture & Strength of Solids, (2013) pp. OS36-010
B10 Optimal Production Process of Particulate Intermetallic compound reinforced Aluminum metal Matrix Composites	Junichi Murakami Yong Bum Choi Motoyama Takahiro Kazuhiro Matsugi Kenjiro Sugio Gen Sasaki Hyeong Jo Kim	9th International Conference on Fracture & Strength of Solids, (2013) pp. PS-284
B11 Microstructure Control of VGCF/Aluminum Composites by Rolling	Gen Sasaki Yuji Ishii Ok Yong Lee Yong Bum Choi Kenjiro Sugio Kazuhiro Matsugi	9th International Conference on Fracture & Strength of Solids, (2013) pp. OS32-023

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B13 Manufacturing process of dispersed intermetallic compounds Al alloy composites by using porous nickel	Yongbum Choi Kazuhiro Matsugi Gen Sasaki	Journal of composite Materials, DOI:10.1177/0021998313497496 (2013)
B14 Property-and shape-control for titanium compacts in spark sintering process	K. Matsugi Y. B. Choi G. Sasaki A. Hiraiwa O. Yanagisawa H. Kuramoto T. Oki	Proc. of 2012 powder metallurgy world congress, Organied by ZPMA and JSPM, (2013)
B15 Effect of SiO ₂ amount on microstructures and tensile properties of alumina short fiber-reinforced composites by low-pressure infiltration method	Moonhee Lee Yongbum Choi Kazuhiro Matsugi Gen Sasaki Tulugan Kelimu	Journal of composite materials, DOI:10.1177/0021998313509867 (2013)
B16 Mechanical properties of NITE-SiC/SiC composites fabricated after neutron irradiation	Moonhee Lee Yongbum Choi Tatsuya Hinoki Kazumi Ozawa Yutai Katoh Kazuhiro Matsugi	Fusion Engineering and Design, Inpress (2013)
B17 Influence of the specific surface area of a porous nickel on the intermetallic compound generated by reaction of a porous nickel and aluminum	Yongbum Choi Takahiro Motoyama Kazuhiro Matsugi Gen Sasaki	Metals and Materials International, Inpress (2013)
B18 Mechanochemical Fabrication of Iron-Graphite Composites	Satoshi Motozuka Motohiro Tagaya Toshiyuki Ikoma Tomohiko Yoshioka Zhefeng Xu Junzo Tanaka	Journal of Composite Materials, 47 , 10 (2013) pp. 1241-1246
B19 Development of Cell Culture Scaffolds and Hydroxyapatite/Collagen Composite by using Fish Collagen	Zhefeng Xu Toshiyuki Ikoma Tomohiko Yoshioka Junzo Tanaka	International Symposium on Health Through Oral Health Collaborative Education, Research and Practices, (2013) pp. 56-57
B20 ELECTRICAL CONDUCTIVITY AND SPATIAL DISTRIBUTION OF PARTICLE DISPERSED COMPOSITES	Kenjiro Sugio Narihiro Kawano Kota Ishikawa Moonhee Lee Gen Sasaki	Proceedings of 19th International Conference on Composite Materials, July 28 to August 2, 2013, Montreal Canada, (2013) pp. 7772-7777
B21 PREPARATIONS AND EVALUATION OF ELECTRICAL CONDUCTIVITY FOR TiB ₂ / Al COMPOSITES BY SPARK SINTERING PROCESS	G. Sasaki K. Ishikawa M. H. Lee Y. B. Choi K. Sugio K. Matsugi	Proceedings of 19th International Conference on Composite Materials, July 28 to August 2, 2013, Montreal Canada, (2013) pp. 945-952
B22 MANUFACTURING PROCESS OF CELMET REINFORCED ALUMINUM ALLOY COMPOSITE BY LOW-PORESSURE CASTING	Yongbum Choi, Gen Sasaki Kazuhiro Matsugi Moonhee Lee Wonjo Park	Proc. of THE 19TH INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS, (2013) pp. 945-952
B23 Situation of biomass utilization in Japan	Yukihiko Matsumura Machi Kanna	J. Jpn. Inst. Energy, 92 , 1 (2013) pp. 110-115

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B26 Kinetic analysis of lignin hydrothermal conversion in sub- and supercritical water	Tau Len-Kelly Yong Yukihiko Matsumura	Ind. Eng. Chem. Res., 52 , 16 (2013) pp. 5626-5639
B27 Kinetic analysis of guaiacol conversion in sub- and supercritical water	Tau Len-Kelly Yong Yukihiko Matsumura	Ind. Eng. Chem. Res., 52 , 26 (2013) pp. 9048-9059
B28 Reaction pathways of phenol and benzene decomposition in supercritical water gasification	Tau Len-Kelly Yong Yukihiko Matsumura	J. Jpn. Petrol. Inst., 56 , 5 (2013) pp. 331-343
B29 Simultaneous hydrothermal pretreatment and ball milling of bamboo	Ryunosuke Matsumoto Machi Kanna Yukihiko Matsumura	J. Jpn. Inst. Energy, 92 , 9 (2013) pp. 889-893
B30 Effect of activated carbon catalytic on supercritical water gasification of glycine as a model compound of protein	Thachanan Samanmulya Yukihiko Matsumura	J. Jpn. Inst. Energy, 92 , 9 (2013) pp. 894-899
B31 The effect of catalyst content on supercritical water gasification process with shochu (Japanese popular distilled liquor) residue and the result of long-time continuous operation	Yasutaka Wada Keiji Oyama Toshiki Yamasaki Ichiro Uchiyama Yukimasa Yamamura Haruhito Kubota Yukihiko Matsumura Tomoaki Minowa Takashi Noguchi Yoshifumi Kawai	J. Jpn. Inst. Energy, 92 , 11 (2013) pp. 919-924
B32 Molecular dynamics observation of iron carbon precursors of carbon nanotube and development of iron carbon potential	Kazuki Nishi Shuhei Inoue Yukihiko Matsumura	Engineering Journal, 17 , 5 (2013) pp. 13-18
B33 Further Investigation on the Enhancement of Flame Speed in Vortex Ring Combustion	Satoru Ishizuka Toshiyuki Yamashita Daisuke Shimokuri	Proceedings of the Combustion Institute, 34 (2013) pp. 745-753
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B37 An experimental study on a self-recirculation type low NO _x tubular flame burner	Hongwei Peng Baolu Shi Daisuke Shimokuri Satoru Ishizuka	Proceedings of the 9th Asia-Pacific Conference on Combustion, (2013) pp. 106

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B41 Chapter 1 Introduction	Satoru Ishizuka	Tubular Combustion, (2013) pp. 1-39
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B43 Chapter 8 Large-Scale Applications	Satoru Ishizuka	Tubular Combustion, (2013) pp. 227-274
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B55 Neutron activation analysis for soils of Hiroshima City and Plaster under roof-tiles of Old Hiroshima House	S. Endo Y. Taguchi T. Imanaka S. Fukutani E. Granovskaya M. Hoshi K. Shiraishi T. Kajimoto K. Shizuma	Revisit the Hiroshima A-bomb with a Database Vol. 2, Hiroshima City 2013, ISBN: 978-4-9905935-1-3 (2013) pp. 9-14
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C80 Force-based automatic classification of basic manipulations with grasping forceps	Yuichi Kurita Tomohiro Kawahara Masazumi Okajima Hiroyuki Egi Hideki Ohdan Toshio Tsuji Tsukasa Ogasawara	International Journal of Life Science and Medical Research, 4 , 2 (2013) pp. 75-81
C81 A novel noninvasive and simple method for assessment of endothelial function: Enclosed zone flow-mediated vasodilation (ezFMD) using an oscillation amplitude measurement	Naomi Idei Teiji Ukawa Masato Kajikawa Yumiko Iwamoto Noritaka Fujimura Tatsuya Maruhashi Shinsuke Mikami Takeshi Matsumoto Yasuki Kihara Kazuaki Chayama Kensuke Noma Ayumu Nakashima Tsuneo Takayanagi Haruka Morimoto Toshio Tsuji	Atherosclerosis, 229 , 2 (2013) pp. 324-330
C82 Development of a Mechanical Impedance Model-based Computer Simulator for Evaluation of an Active Headrest Mechanism in Rear-End Impact	Yoshiyuki Tanaka Shunsuke Fukushima Masaya Yamashita Yoshinobu Ootan Toshio Tsuji	Journal of Mechanical Systems for Transportation and Logistics, 6 , 1 (2013) pp. 73-88
C83 Virtual Light Touch Contact: a Novel Concept for Mitigation of Body Sway	Keisuke Shima Koji Shimatani Akitoshi Sugie Yuichi Kurita Ryuji Kohno Toshio Tsuji	Proceedings of 7th International Symposium on Medical Information and Communication Technology (ISMICT), (2013) pp. 108-111

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C85 Monitoring of Peripheral Vascular Condition Using a Log-Linearized Arterial Viscoelastic index During Endoscopic Thoracic Sympathectomy	Hiroki Hirano Tetsuya Horiuchi Harutoyo Hirano Yuichi Kurita Teiji Ukawa Ryuji Nakamura Noboru Saeki Masao Yoshizumi Masashi Kawamoto Toshio Tsuji	Proceedings of 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'13), (2013) pp. 2587-2590
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C87 Improvement of tactile sensitivity by stochastic resonance effect - Applications to surgical grasping forceps -	Yamato Sueda Minoru Hattori Hideki Ohdan Hiroyuki Egi Hiroyuki Sawada Jun Ueda Toshio Tsuji Yuichi Kurita	Proceedings of 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'13), (2013) pp. 4601-4604
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D93 Optimal trigger time of software rejuvenation under probabilistic opportunities	H. Okamura T. Dohi	IEICE Transactions on Information & Systems (D), E96-D , 9 (2013) pp. 1933-1940
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D109 Generalized Cox proportional hazards regression-based software reliability modeling with metrics data	D. Kuwa T. Dohi	Proceedings of The 19th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC 2013), (2013) pp. 328-337
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D128 Improvement of carcinogenicity prediction performances based on sensitivity analysis in variable selection of SVM models	Kazutoshi Tanabe Takahiro Suzuki Takio Kurita Kenji Nishida Bono Lucic Dragan Amić	SAR and QSAR in Environmental Research, 24 , 7 (2013) pp. 565-580
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D133 Improvements to the descriptor of SIFT by BOF approaches	Zhouxin Yang Takio Kurita	Proc. of The 2nd IAPR Asian Conference on Pattern Recognition (ACPR2013), November 5-8, 2013, Okinawa, Japan, (2013) pp. 95-99

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D136 Skyline Queries for Selecting Spatial Objects by Utilizing Surrounding Environment	Mohammad Shamsul Arefin Jinhao Xu Zhiming Chen Yasuhiko Morimoto	Journal of Computers, 8 , 7 (2013) pp. 1742-1749
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E3 Towards better phosphor design: effect of SiO ₂ nanoparticles on photoluminescence enhancement of YAG:Ce	T. Ogi A.B.D. Nandiyantio K. Okino F. Iskandar W-N Wang E. Tanabe K. Okuyama	ECS Journal of Solid State Science and Technology, 2 , 5 (2013) pp. R91-R95
E4 Facile synthesis of single-phase spherical α -Fe ₁₆ N ₂ /Al ₂ O ₃ core-shell nanoparticles via a gas-phase method	T. Ogi A.B.D. Nandiyantio Y. Kisakibaru K. Nakamura T. Iwaki K. Okuyama	Journal of Applied Physics, 113 (2013) pp. 164301-164301
E5 Influence of formic acid on electrochemical properties of high-porosity Pt/TiN nanoparticle aggregates	T. Ogi N. Tajima R. Balgis H. Setyawan K. Okuyama	AICHE Journal, 59 , 8 (2013) pp. 2753-2760
E6 Ion-induced nucleation rate measurement in SO ₂ /H ₂ O/N ₂ gas mixture by soft X-ray ionization at various pressures and temperatures	M.M. Munir A. Suhendi T. Ogi F. Iskandar K. Okuyama	Advanced Powder technology, 24 , 1 (2013) pp. 143-149
E7 Mesopore-free silica shell with nanometer-scale thickness-controllable on cationic polystyrene core	A. B. D. Nandiyanto T. Iwaki T. Ogi K. Okuyama	Journal of Colloid and Interface Science, 389 , 1 (2013) pp. 134-146
E8 Agglomeration-free core-shell polystyrene/silica particles preparation using an electrospay method and additive-free cationic polystyrene core	A. Suhendi A. B. D. Nandiyanto T. Ogi K. Okuyama	Materials Letters, 91 (2013) pp. 161-164
E9 Control of cone-jet geometry during electrospay by an electric current	A. Suhendi M. Munir A. Suryamas A.B.D. Nandiyanto T. Ogi K. Okuyama	Advanced Powder Technology, 24 , 2 (2013) pp. 532-536
E10 Ultrahigh oxygen reduction activity of Pt/nitrogen-doped porous carbon microspheres prepared via spray-drying	R Balgis G. M. Anilkumar S. Sago T. Ogi K. Okuyama	Journal of Power Sources, 229 (2013) pp. 58-64
E11 Electrospun Pt/SnO ₂ nanofibers as a selective electrocatalysts for hydrogen oxidation reaction	A. B. Suryamas G. M. Anilkumar S. Sago T. Ogi K. Okuyama	Catalysis Communications, 33 (2013) pp. 11-14

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E13 Influences of surface charge, size, and concentration of colloidal nanoparticles on fabrication of self-organized porous silica in film and particle forms	A.B.D. Nandiyanto A. Suhendi O. Arutanti T. Ogi K. Okuyama	Langmuir, 29 , 21 (2013) pp. 6262-6270
E14 Preparation of agglomeration-free spherical hollow silica particles using an electro spray method with colloidal templating	A. Suhendi A.B.D. Nandiyanto M. M. Munir T. Ogi K. Okuyama	Materials Letters, 106 , 1 (2013) pp. 432-435
E15 Synthesis of Spherical Macroporous WO ₃ Particles and Their High Photocatalytic Performance	A.B.D.Nandiyanto O. Arutanti A. Suhendi T. Ogi F. Iskandar T.O. Kim K. Okuyama	Chemical Engineering Science, 101 , 20 (2013) pp. 523-532
E16 Self-assembly of colloidal nanoparticles inside charged droplets during spray-drying in the fabrication of nanostructured particles	A. Suhendi A.B.D. Nandiyanto M.M. Munir T. Ogi L. Gradon K. Okuyama	Langmuir, 29 , 43 (2013) pp. 13152-13161
E17 Self-Organized Macroporous Carbon Structure Derived from Phenolic Resin via Spray Pyrolysis for High-Performance Electrocatalyst	R. Balgis S. Sago G.M. Anilkumar T. Ogi K. Okuyama	ACS Applied Materials & Interfaces, 5 , 22 (2013) pp. 11944-11950
E18 Solubilities of cobalt(III) and chromium(III) acetylacetonates in supercritical carbon dioxide at elevated temperatures	Masashi Haruki Minami Ohara Shin-ichi Kihara Shigeki Takishima	Fluid Phase Equilibria, 357 (2013) pp. 50-56
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E20 Consolidation of suspended particles by using dual ionic thermosensitive polymers with incorporated a hydrophobic component	Shuji Sakohara Taichi Kawachi Takehiko Gotoh Takashi Iizawa	Separation and Purification Technology, 106 (2013) pp. 90-96
E21 Adsorption and desorption of calcium ions by temperature swing with copolymer of thermosensitive and chelating components grafted on porous ethylene vinyl acetate disk	Shuji Sakohara Yusuke Kuriyama Kensuke Kobayashi Takehiko Gotoh Takashi Iizawa	Reactive & Functional Polymers, 73 (2013) pp. 1632-1638
E22 Transition and adsorption behaviors of zwitterionic betaine gel in various salt solutions	Eva Oktavia Ningrum Yukio Murakami Yasuhiro Ohfuka Shuji Sakohara	Proc. of 9th World Congress of Chemical Engineering, (2013) pp. 1-4
E23 Separation of bisphenol-A by pH-responsive unimolecular micelles grafted on porous polyolefin	Koji Teramoto Toshiyuki Harada Shuji Sakohara	Proc. of 9th World Congress of Chemical Engineering, (2013) pp. 1
E24 Equilibrium shift of methylcyclohexane dehydrogenation in a thermally stable organosilica membrane reactor for high-purity hydrogen production	G. Li T. Niimi M. Kanezashi T. Yoshioka T. Tsuru	International Journal of Hydrogen Energy, 38 (2013) pp. 15302-15306

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E39 Preparation and characterization of amorphous carbon (a-C) membranes by molecular dynamics Simulation	M. Zhai T. Yoshioka J. Yang J. Lu D. Yin J. Wang	Desalination and Water Treatment, 51 (2013) pp. 5231-5236
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E42 A new method of zeta-potential measurement by use of the sedimentation balance method,	Hideto Yoshida T. Tatekawa K. Fukui T. Yamamoto K. Takai H. Matsuzawa	Powder Technology, 237 (2013) pp. 303-308
E43 Hydrodynamic boundary condition of water on hydrophobic surfaces	David Schaeffel S. Yordanov M. Schmelzeisen T. Yamamoto M. Kappl R. Schmitz B. Dünweg	Physical Review E, 87 (2013) pp. 051001
E44 Synthesis of nearly micron-sized particles by soap-free emulsion polymerization of methacrylic monomer using an oil-soluble initiator	Tetsuya Yamamoto	Colloid & Polymer Science, 291 , 11 (2013) pp. 2741-2744
E45 New method of zeta-potential measurement by use of the sedimentation balance method	Hideto Yoshida Y. Nakatsuka K. Fukui T. Yamamoto M. Matsuzawa K. Takai	The 10th International Symposium on Agglomeration, (2013) pp. O-26
E46 Facile Synthesis of Hydroxy-Modified MOF-5 for Improving the Adsorption Capacity of Hydrogen by Lithium Doping	Masaru Kubo Hayato Hagi Atsushi Shimojima Tatsuya Okubo	Chemistry - An Asian Journal, 8 , 1 (2013) pp. 2801-2806
E47 Evaluation of the Factors that Influence the Fabrication of Porous Thin Films by Deposition of Aerosol Nanoparticles	Masaru Kubo Yu Ishihara Yuki Mantani Manabu Shimada	Chemical Engineering Journal, 232 (2013) pp. 221-227

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E49 Inhalation Toxicity Assessment of Carbon-Based Nanoparticles	Y. Morimoto M. Horie N. Kobayashi N. Shinohara M. Shimada	Accounts of Chemical Research, 46 , 3 (2013) pp. 770-781
E50 Impact of flood events on macrobenthic community structure on an intertidal flat developing in the Ohta River Estuary	Wataru Nishijima Yoichi Nakano Satoshi Nakai Tetsuji Okuda Tsuyoshi Imai Mitsumasa Okada	Marine Pollution Bulletin, 74 (2013) pp. 364-373
E51 An immobilization mechanism for lead in fly ash subjected to mechanochemical treatment	Yugo Nomura Kazuo Fujiwara Akihiko Terada Satoshi Nakai Masaaki Hosomi	The International Journal of Environment and Waste Management, 12 (2013) pp. 340-353
E52 Determination method for maximum calcium releasing potential from steel slags, marine sands alternatives in seawater	Satoshi Asaoka Tetsuji Okuda Satoshi Nakai Wataru Nishijima	ISIJ, 53 (2013) pp. 1888-1893
E53 Total immobilization of soil heavy metals with nano-Fe/Ca/CaO dispersion mixtures	S. R. Mallampati Y. Mitoma T. Okuda S. Sakita M. Kakeda	Environmental Chemistry Letters, 11 (2013) pp. 119-125
E54 Anti-cyanobacterial effects of macrophyte-produced allelochemicals and their environment dependence	Satoshi Nakai Satoshi Asaoka Tetsuji Okuda Wataru Nishijima	NOM5, (2013)
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E57 Effect of packing fraction on indium tin oxide powder synthesis via a solid-phase reaction with microwave heating	K. Fukui M. Katoh Y. Saeki T. Yamamoto H. Yoshida	Chemical Engineering Science, 98 (2013) pp. 17-24

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F2 Synthesis of dithienosilole-based highly photoluminescent donor-acceptor type compounds	Joji Ohshita Yuta Tominaga Daiki Tanaka Yousuke Ooyama Tomonobu Mizumo Norifumi Kobayashi Hideyuki Higashimura	Dalton Trans., 42 (2013) pp. 3646-3652
F3 Specific solvatochromism of D- π -A type pyridinium dyes bearing various counter anions in halogenated solvents	Yousuke Ooyama Yuichiro Oda Tomonobu Mizumo Joji Ohshita	Tetrahedron, 69 (2013) pp. 1755-1760
F4 Synthesis of Poly(dithienogermole-2,6-diyl)s	Joji Ohshita Masayuki Miyazaki Daiki Tanaka Yasushi Morihara Yuki Fujita Yoshihito Kunugi	Polym. Chem., 4 (2013) pp. 3116-3122
F5 Synthesis and Optical and Photovoltaic Properties of Dithienosilole-Dithienylpyridine and Dithienosilole-Pyridine Alternate Polymers and Polymer-B(C ₆ F ₅) ₃ Complexes	Daiki Tanaka Joji Ohshita Yousuke Ooyama Yasushi Morihara	Polym. J., 45 (2013) pp. 1153-1158
F6 Synthesis of oligo(dimethylsiloxane)-oligothiophene alternate polymers from α,ω -dibromooligo(dimethylsiloxane)	Zhou Lu Joji Ohshita Daiki Tanaka Tomonobu Mizumo Yuki Fujita Yoshihito Kunugi	J. Organomet. Chem., 731 (2013) pp. 73-77
F7 Synthesis and Properties of Dithienometalole-Pyridinochalcogenadiazole Alternate Polymers	Joji Ohshita Masayuki Miyazaki Fei-Bao Zhang Daiki Tanaka Yasushi Morihara	Polym. J., 45 (2013) pp. 979-984
F8 Synthesis and optical properties of organosilicon oligothiophene branched polymers	Joji Ohshita Yuta Tominaga Daiki Tanaka Tomonobu Mizumo Yuki Fujita Yoshihito Kunugi	J. Organomet. Chem., 736 (2013) pp. 50-54
F9 Synthesis of donor-acceptor type new organosilicon polymers and their applications to dye-sensitized solar cells	Daiki Tanaka Joji Ohshita Tomonobu Mizumo Yousuke Ooyama Yutaka Harima	Journal of Organometallic Chemistry, 741-742 (2013) pp. 97-101
F10 Synthesis and optical properties of H-shaped silicon-containing molecule with bithiophene units	Akinobu Naka Ryuichi Fukuda Yoshifumi Jahana Joji Ohshita Hisayoshi Kobayashi Mitsuo Ishikawa	J. Organomet. Chem., 741-742 (2013) pp. 67-71

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F11 Synthesis of diphenylamino-carbazole substituted BODIPY dyes and their photo-voltaic performance in dye-sensitized solar cells	Yousuke Ooyama Yuta Hagiwara Tomonobu Mizumo Yutaka Harima Joji Ohshita	RSC Adv., 3 (2013) pp. 18099-18106
F12 Photovoltaic performance of dye-sensitized solar cells based on D- π -A type BODIPY dye with two pyridyl groups	Yousuke Ooyama Yuta Hagiwara Tomonobu Mizumo Yutaka Harima Joji Ohshita	New Journal of Chemistry, 37 , 8 (2013) pp. 2479-2485
F13 Dye-sensitized solar cells based on a functionally separated D- π -A fluorescent dye with an aldehyde as an electron-accepting group	Yousuke Ooyama Yuta Hagiwara Yuichiro Oda Tomonobu Mizumo Yutaka Harima Joji Ohshita	New Journal of Chemistry, 37 , 8 (2013) pp. 2336-2340
F14 Synthesis of Specific Solvatochromic D- π -A Dyes with Pyridinium Ring as Electron-Withdrawing Group for Dye-Sensitized Solar Cells	Yousuke Ooyama Yuichiro Oda Tomonobu Mizumo Yutaka Harima Joji Ohshita	European Journal of Organic Chemistry, 2013 , 21 (2013) pp. 4533-4538
F15 Solid-state fluorescence properties and mechanofluorochromism of D- π -A pyridinium dyes bearing various counter anions	Yousuke Ooyama Yuichiro Oda Yuta Hagiwara Hiroshi Fukuoka Eigo Miyazaki Tomonobu Mizumo Joji Ohshita	Tetrahedron, 69 (2013) pp. 5818-5822
F16 Development of Dye-Sensitized Solar Cells Based on D- π -A Pyridinium Dye without Carboxylic Acid Moiety as Anchoring Group	Yousuke ooyama Naoya Yamaguchi Joji Ohshita Yutaka Harima	Electrochemistry, 81 (2013) pp. 325-327
F17 Molecular design and synthesis of fluorescence PET (photo-induced electron transfer) sensors for detection of water in organic solvents	Yousuke Ooyama Koji Uenaka Ai Matsugasako Yutaka Harima Joji Ohshita	RSC Advances, 3 , 45 (2013) pp. 23255-23263
F18 Optical Properties, and Crystal Structures of Dithienostannoles	Daiki Tanaka Joji Ohshita Yousuke Ooyama Norifumi Kobayashi Hideyuki Higashimura Takayuki Nakanishi Yasuchika Hasegawa	Organometallics, 32 (2013) pp. 4136-4141
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F20 Tailoring the Affinity of Organosilica Membranes by Introducing Polarizable Ethenylene Bridges and Aqueous Ozone Modification	Rong Xu Masakoto Kanezashi Tomohisa Yoshioka Tetsuji Okuda Joji Ohshita Toshinori Tsuru	ACS Applied Materials & Interfaces, 5 (2013) pp. 6147-6154
F21 Copolymerization of ethylene with 1,1-disubstituted olefins catalyzed by ansa-(fluorenyl)(cyclododecylamido)dimethyltitanium complexes	Yuushou Nakayama Yuuichi Sogo Zhengguo Cai Takeshi Shiono	J. Polym. Sci. Part A: Polym. Chem., 51 , 5 (2013) pp. 1223-1229
F22 Copolymerization of ethylene/1-hexene with zirconocene/MAO catalyst supported on spherical zirconia modified with BC13, SiCl4, and glycerol	Sasiradee Jantasee Takeshi Shiono Bunjerd Jongsomjit	Polym. Bull., 70 , 6 (2013) pp. 1753-1768

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F24 Facile Synthesis of Hydroxy-Functionalized Cycloolefin Copolymer Using omega-Alkenylaluminum as a Comonomer	Takeshi Shiono Mitsunori Sugimoto Tariqul Hasan Zhengguo Cai	Macromol. Chem. Phys., 214 , 19 (2013) pp. 2239-2244
F25 Synthesis and properties of cationic ionomers from poly(ester-urethane)s based on polylactide	Yuushou Nakayama Takamichi Inaba Yosuke Toda Ryo Tanaka Zhengguo Cai Takeshi Shiono Hiroyuki Shirahama Chikara Tsutsumi	J. Polym. Sci. Part A: Polym. Chem., 51 , 20 (2013) pp. 4423-4428
F26 Copolymerization of Ethylene and 1-Hexene with Ansa-Dimethylsilylene(fluorenyl) (t-butylamido)Dimethyltitanium Complexes Activated by Modified Methylaluminoxane	Mingkwan Wannabor- worn Piyasan Praserttham Bunjerd Jongsomjit Zhengguo Cai Haruki Yano Takeshi Shiono	Macromol. Chem. Phys., 214 , 22 (2013) pp. 2584-2590
F27 Copolymerization of Norbornene with omega-Alkenylaluminum as a Precursor Comonomer for Introduction of Carbonyl Moieties	Jang-Woo Lee Sasiradee Jantasee Bunjerd Jongsomsit Ryo Tanaka Yuushou Nakayama Takeshi Shiono	J. Polym. Sci. Part A: Polym. Chem., 51 , 23 (2013) pp. 5085-5090
F28 Modification effect of spherical zirconia with SiCl ₄ as a support of methylaluminoxane for heterogeneous single-site catalyst	Sasiradee Jantasee Bunjerd Jongsomjit Haruki Yano Takeshi Shiono	Eur. Polym. J., 49 , 12 (2013) pp. 4195-4200
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F40 In situ spectroscopic observation of pressure-induced condensation of trimethylsilanol and behavior of dehydrated molecular water	Ayako Shinozaki Naoki Noguchi Hiroyuki Kagi	Chemical Physics Letters, 574 (2013) pp. 66-70
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F59 Superconductivity of metal nitride chloride beta-MNCl (M = Zr, Hf) with rare-earth metal RE (RE = Eu, Yb) doped by intercalation	Shuai Zhang Masashi Tanaka Takahiro Onimaru Toshiro Takabatake Yoshikazu Ishikawa Shoji Yamanaka	Superconductor Science & Technology, 26 , 4 (2013) pp. Art. No. 045017
F60 Conversion of ethanol into propylene over TON type zeolite	N. Tsunoji Y. Furumoto, Y. Ide M. Sadakane T. Sano	J. Jpn. Petrol. Inst., 56 (2013) pp. 22-31
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F68 Characterization of layered silicate HUS-5 and formation of novel nanoporous silica through transformation of HUS-5 ion-exchanged with alkylammonium cations	N. Tsunoji M. Fukuda K. Yoshida Y. Sasaki T. Ikeda Y. Ide M. Sadakane T. Sano	J. Mater. Chem. A, 1 (2013) pp. 9680-9688
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F74 Orthorhombic Mo ₃ VO _x catalyst most active for dehydrogenation of ethane among related complex metal oxides	Takeshi Konya Tomokazu Katou Toru Murayama Satoshi Ishikawa Masahiro Sadakane Douglas Buttrey Wataru Ueda	Catal. Sci. & Tech., 3 (2013) pp. 380-387
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G49 Phosphate recovery as concentrated solution from treated wastewater by a PAO-enriched biofilm reactor	Hiroya Kodera Masashi Hatamoto Kenichi Abe Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Water Research, 47 , 6 (2013) pp. 2025-2032
G50 Enhancement of denitrification in a down-flow hanging sponge reactor by effluent recirculation	Naoki Ikeda Teppei Natori Tutomu Okubo Ami Sugo Masataka Aoki Masanori Kimura Takashi Yamaguchi Hideki Harada Akiyoshi Ohashi Shigeki Uemura	Water Science & Technology, 68 , 3 (2013) pp. 591-598
G51 Physiological characterization of an anaerobic ammonium-oxidizing bacterium belonging to the "Candidatus Scalindua sp."	Tomonori Kindaichi Takanori Awata Mamoru Oshiki Noriatsu Ozaki Akiyoshi Ohashi Satoshi Okabe	Proceedings of the 3rd International Conference of Nitrification (ICON3), (2013) pp. 66-66
G52 Physiological characterization of an anaerobic ammonium-oxidizing bacterium enriched from coastal sediments, Hiroshima, Japan	Takanori Awata Mamoru Oshiki Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi Satoshi Okabe	Proceedings of the 2nd International Anammox Symposium (IANAS 2013), (2013) pp. 67-67

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G54 Biological manganese oxidation using a down-flow hanging sponge reactor supplied with methane	Daisuke Komizo Thi Thuy Linh Cao Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE 2013, (2013) pp. 155-159
G55 Degradation of polycyclic musks and triclosan on soil surfaces under artificial light conditions	Fumitaka Morishita Noriatsu Ozaki Tomonori Kindaichi Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE 2013, (2013) pp. 165-169
G56 Improvements in anammox process using a membrane bioreactor	Yumiko Goto Takanori Awata Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE 2013, (2013) pp. 218-221
G57 The uncertainty of local flow parameters during inundation flow over complex topographies with elevation errors	Ryota Tsubaki Yoshihisa Kawahara	J. Hydrology, 486 , 12 (2013) pp. 71-87
G58 Estimation of detachment rate of algae due to grinding by sediment transport using spectral image analysis	Shota Ishio Ryota Tsubaki Yoshihisa Kawahara Yusuke Nakadoi	Proc. 12th International Symposium on River Sedimentation, 12 (2013)
G59 Experimental study of turbulent flows in an open channel with different vegetation patches,	Katsuma Matsubara Yoshihisa Kawahara Takuya Yamamoto Ryota Tsubaki	Proc. 35th IAHR World Congress, 35 (2013)
G60 Numerical prediction of heavy rainfall using Weather and Research Forecasting model,	Makoto Kita Yoshihisa Kawahara Ryota Tsubaki Tomoki Ushiyama	Proc. 35th IAHR World Congress, 35 (2013)
G61 On the spatial distribution of aquatic plant in gravel river	Ryota Tsubaki Yoshihisa Kawahara	Proc. 35th IAHR World Congress, 35 (2013)
G62 Effect of vegetation configuration on turbulent flows in a rectangular open channel	Satoshi Yokojima Yoshihisa Kawahara Takuya Yamamoto	Proc. 35th IAHR World Congress, 35 (2013)
G63 Hydrological impacts of a changing climate on floods and droughts in Philippine river basins	Sanchez Patricia Ann Jaranilla Koike Toshio Nyunt Cho Thanda Rasmy Mohammed Hasegawa Izumi Matsumura Akiko Ogawada Daikichi	Annual Journal of Hydraulic Engineering, 69 , 4 (2013) pp. I.13-I.18
G64 Bias correction method for climate change impact assessments in the Philippines	Nyunt Cho Thanda Koike Toshio Sanchez Patricia Ann Jaranilla Yamamoto Akio Nemoto Toshihoro Kitsuregawa Masaru	Annual Journal of Hydraulic Engineering, 69 , 4 (2013) pp. I.19-I.24
G65 Identifying gaps and opportunities between statistical and dynamical downscaling approaches over Shikoku island, Japan	Rasmy Mohammed Nyunt Cho Thanda Sanchez Patricia Ann Jaranilla Koike Toshio Hara Masayuki Fujita Mikiko Kawase Hiroaki	Annual Journal of Hydraulic Engineering, 69 (2013) pp. I.133-I.138

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G67 Bias correction and Spatial Disaggregation for Climate Change Impact Assessments at a basin scale	Nyunt Cho Thanda Koike Toshio Yamamoto Akio Nemoto Toshihoro Kitsuregawa Masaru	European Geosciences Union General Assembly 2013, 15 (2013)
G68 Image analysis and reconstruction of the 2008 Toga River flood in an urbanized area	Ichiro Fujita Yohei Kunita Ryota Tsubaki	Australian Journal of Water Resources, 16 (2013) pp. 151-162
G69 Continuous monitoring of a dam flush in a shallow river using two crossing ultrasonic transmission lines	Kiyosi Kawanisi Mahdi Razaz Jyunki Yano Kazuhiko Ishikawa	Measurement Science and Technology, 24 , 5 (2013) pp. 1-10
G70 An acoustic travel time method for continuous velocity monitoring in shallow tidal streams	Mahdi Razaz Kiyosi Kawanisi Ioan Nistor Soroosh Sharifi	Water Resources Research, 49 , 8 (2013) pp. 4885-4899
G71 Variability in salt flux and water circulation in the Ota Estuary, Japan	Mohammad Soltaniasl Kiyosi Kawanisi Junki Yano Kazuhiko Ishikawa	Water Science and Engineering, 6 , 3 (2013) pp. 283-295
G72 Investigation of salt intrusion variability using acoustic tomography system	Mohammad Soltaniasl Kiyosi Kawanisi Mahdi Razaz	Journal of Japan Society of Civil Engineers, Ser.B1 (Hydraulic Engineering), 69 , 4 (2013) pp. 91-96
G73 An application of a shallow acoustic tomography: Continuous monitoring of streamflow and water temperature in a mountain river	Kiyosi Kawanisi Kazuhiko Ishikawa Mahdi Razaz Junki Yano	Proc. of UAC-2013, 1 (2013) pp. 539-546
G74 Continuous velocity measurement with travel-time method in stratified shallow flows	Mahdi Razaz Kiyosi Kawanisi Ioan Nistor Collin Rennie	Proc. of UAC-2013, 1 (2013) pp. 555-562
G75 Prediction of the retention volume of sediment during water-based sediment injection	Narong Touch Tadashi Hibino	Journal of Porous Media, 16 (6) (2013) pp. 547-557
G76 Modeling the settling velocity of organic settling matter with the consideration of organic properties	Tadashi Hibino Narong Touch Katsuaki Komai K.H. Kim	Coastal Engineering Journal, 55 , 4 (2013) pp. 1350015/1-1350015/14
G77 Permeability reduction by sediment retention in saturated sand	Narong Touch Tadashi Hibino Shinya Nakashita	Transport in Porous Media, 98 , 3 (2013) pp. 615-630
G78 Experimental investigation on effects of acid/base waters on the bottom sediment of Kaita Cove (Hiroshima, Japan)	Narong Touch Tadashi Hibino kouhei Ueno Shougo Fukui	Estuarine, Coastal and Shelf Science, 135 (2013) pp. 18-23
G79 Countermeasure for Solving Sludge Problems using Microbial Fuel Cell Technology	Tadashi Hibino Narong Touch Kohei Ueno Shogo Fukui Yoshiyuki Nagatsu	Proceedings of the 1st Asia Future Conference 2013, (2013) pp. 8-10
G80 Stabilization of the output voltage of sediment microbial fuel cell using alkaline material	Narong Touch Yoshiyuki Nagatsu Takayuki Nakaoka Tadashi Hibino	Proceedings of the 4th International Microbial Fuel Cell Conference, (2013) pp. 66-67

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G82 A method for investigation of sediment retention in sandy tidal flats	Narong Touch Takayuki Nakaoka Yoshiyuki Nagatsu Tadashi Hibino	Proceedings of the 7th International Conference on Asian and Pacific Coasts, (2013) pp. 254-260
G83 A method using granulated coal ash for disposal of the sludge carried by Tsunami	Tadashi Hibino Narong Touch Takayuki Nakaoka Yoshiyuki Nagatsu	Proceedings of the 7th International Conference on Asian and Pacific Coasts, (2013) pp. 814-821
G84 Identification of the condition of sea bottom sediment based on ignition behavior	Takayuki Nakaoka Narong Touch Yoshiyuki Nagatsu Tadashi Hibino	Proceedings of the 7th International Conference on Asian and Pacific Coasts, (2013) pp. 341-351
G85 An Analysis on Unstated Concern and Stated Thought during a Discourse in Public Issue	Kota MORISAKI Makoto TSUKAI Yuji NAMBA	Group Decision and Negotiation – GDN 2013, (2013)
G86 Statistical Analysis on Multivariate Expressway Time Series Traffic Under the Different Toll Policies	Makoto TSUKAI Shinichi INOUE Masashi KUWANO Makoto OKUMURA	Asian Transport Studies, 2 , 4 (2013) pp. 411-420
G87 Improvement of Interregional Passenger Demand Model by Propensity Score Method	Yoshiharu KATAGAWA Makoto TSUKAI	Proceedings of the Eastern Asia Society for Transportation Studies, 10 (2013)
G88 Applicability of the Spatial Aggregation Model for Small Area Interpolation	Toshiaki TSUDA Makoto TSUKAI	The VIIth World Conference of the Spatial Econometrics Association, (2013)
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H3 Wind Effect on Directional Stability of a Ship Moving in a Channel	H. Yasukawa M. Sano H. Amii	3rd Int. Conf. on Ship Manoeuvring in Shallow and Confined Water, (2013)
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H6 Maneuvering motions of full hull ships in Cb-series	I. Yonemasu N. Hirata H. Yasukawa	International Conference on Marine Safety & Environment, (2013) pp. 57-62
H7 Fullscale Measurement of Maneuvering Motions of a Ship in Heeled Condition	H. Matsumoto N. Hirata H. Yasukawa	International Conference on Marine Safety & Environment, (2013) pp. 148-153
H8 Lateral Oscillation of an Ascending Anchor Chain	Susumu Tanaka Noritaka Hirata Koji Handa Hiroshi Seki	ClassNK TECHNICAL BULLETIN, 31 (2013) pp. 23-32
H9 A Hybrid Particle-Grid Scheme for Computing Hydroelastic Behaviors Caused by Slamming	Mutsuda,H. S. Baso K. Hashihira Y. Doi	5th International Conference on Computational Methods in Marine Engineering, MARINE2013, CD-R (2013)
H10 Wind Energy Harvesting Using Flexible Piezoelectric Device	Mutsuda,H. J. Miyagi Y. Doi Y. Tanaka	Journal of Energy and Power Engineering, Vol.7 (2013) pp. 1047-1051
H11 Ocean Power Generator Using Flexible Piezoelectric Device	H. Mutsuda R. Watanabe, S. Azuma Y. Tanaka Y. Doi	Proceedings of the ASME 32rd International Conference on Ocean, Offshore and Arctic Engineering, CD-R (2013)
H12 Development of Floating Tsunami Shelter with Mooring	Mutsuda,H. M. Kamata S. Fujii Y. Doi	Proceedings of the 23rd International Society of Offshore and Polar Engineers, 3 (2013) pp. 60-67
H13 Reduction of Tsunami Force Acting on Large-sized Tsunami Shelter	Hidemi MUTSUDA Masaya KAMADA Syunsuke FUJII Yasuaki DOI	The Coasts & Ports 2013 Conference, CD-R (2013)
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H17 Unsteady Aerodynamics Simulation of a Road Vehicle Running with Cyclic Yaw and Side-Slip Motions	Takuji Nakashima Yoshihiro Okada Takahide Nouzawa Makoto Tsubokura	Proceedings of 31st AIAA Applied Aerodynamics Conference, (2013) pp. AIAA-2013-3041
H18 Prediction and Improvement of Propulsive Performance of Wing Sails Considering Their Aerodynamic Interaction	Takahiro Miyasaka Takuji Nakashima Yasunori Nihei Yasuaki Doi	Proceedings of the 23rd International Society of Offshore and Polar Engineers, 4 (2013) pp. 800-807
H19 Aerodynamic Stability of Road Vehicles in Dynamic Pitching Motion	Seeyuan Cheng Makoto Tsubokura Yoshihiro Okada Takahide Nouzawa Takuji Nakashima Deog Hee Doh	Journal of Wind Engineering and Industrial Aerodynamics, 122 (2013) pp. 146-156
H20 Aerodynamic Pitching Stability of Sedan-Type Vehicles Influenced by Pillar-Shape Configurations	CHENG See Yuan TSUBOKURA Makoto OKADA Yoshihiro NAKASHIMA Takuji NOUZAWA Takahide	SAE Technical Paper (Proceedings of SAE 2013 World Congress & Exhibition), (2013) pp. 2013-01-1258
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H22 Chlorophyll-a estimation in Tachibana Bay by data fusion of GOCI and MODIS using linear combination index algorithm	Yuji Sakuno Keita Makio Kazuhiko Koike Maung-Saw-Htoo-Thaw Shigeru Kitahara	Advances in Remote Sensing, 2 (2013) pp. 292-296
H23 Chlorophyll data fusion in Tachibana Bay using COMS GOCI and MODIS data by the LCI method	Yuji Sakuno	2013 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2013), (2013) pp. 1594-1597
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H25 Ocean variability along the southern coast of Java and Lesser Sunda Islands	Fadli Syamsudin Arata Kaneko	Journal of Oceanography, 69 , 3 (2013) pp. DOI 10.1007/s10872-013-0192-6
H26 Mapping Tidal Current Structures in Zhitouyang Bay, China, using Coastal Acoustic Tomography	Xiao-Hua Zhu Arata Kaneko Qingsong Wu Chuanzheng Zhang Naokazu Taniguchi Noriaki Gohda	IEEE Journal of Oceanic Engineering, 38 , 2 (2013) pp. 285-296, doi: 10.1109/JOE.2012.2223911
H27 Mapping tidal current, vorticity and divergent using coastal acoustic tomography	Xiaohua Zhu Arata Kaneko Chuanzheng Zhang, Naokazu Taniguchi Noriaki Gohda	Proc. 1st International Conference on Underwater Acoustics., Corfu , Greece (2013) pp. 517-524

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H29 Ocean acoustic tomography experiments in the Kuroshio southeast of Taiwan	Naokazu Taniguchi Chen-Fen Huang Arata Kaneko Yih Yang Xiaohua Zhu Noriaki Gohda	Proc. 1st International Conference on Underwater Acoustics, Corfu , Greece (2013) pp. 533-538
H30 Inversion of the tidal current profile in the Jiaozhu Bay of Yellow Sea by the coastal acoustic tomography data	Ju Lin Huang Wang Xiaohua Zhu Arata Kaneko Xudong Liu	Proc. 1st International Conference on Underwater Acoustics, Corfu , Greece (2013) pp. 547-554
H31 Two-dimensional Fracture Mechanics Analyses using the Wavelet Galerkin Method and eXtended Finite Element Method	Satoyuki Tanaka Hiroshi Okada Shigenobu Okazawa Masahiko Fujikubo	International Journal for Numerical Methods in Engineering, 93 (2013) pp. 1082-1108
H32 Analysis of Three-dimensional Surface Crack in Welded Joint Structure using Shell-Solid Mixed Method	Satoyuki Tanaka Shigenobu Okazawa Hiroshi Okada Yang Xi Yasuaki Ohtsuki	International Journal of Offshore and Polar Engineering, 23 (2013) pp. 232-239
H33 Collapse Behaviour of Ship Hull Girder of Bulk Carrier under Alternative Heavy Loading Condition	Pei, Z. Iijima, K. Fujikubo, M. Tanaka, Y. Tanaka, S. Okazawa, S. Yao, T.	International Journal of Offshore and Polar Engineering, 23 (2013) pp. 224-231
H34 Elastic large deflection analysis of plates subjected uni-axial thrust using mesh-free Mindlin-Reissner formulation	Shota Sadamoto Satoyuki Tanaka Shigenobu Okazawa	Computational Mechanics, 52 (2013) pp. 1313-1330
H35 INTERACTION ANALYSIS WITH STABILIZED FINITE ELEMENT METHOD IN EULERIAN FRAMEWORK	Toru Hamasaki Shigenobu Okazawa Satoyuki Tanaka	International Innovative Scientific and Research Organization International Multi-Conferences, (2013) pp. 181-185
H36 OPTIMIZATION OF STRUCTURAL MEMBERS IN IMPACT ANALYSIS	Yuya Owada Shigenobu Okazawa Satoyuki Tanaka	International Innovative Scientific and Research Organization International Multi-Conferences, (2013) pp. 176-180
H37 Progressive collapse behavior of ship hull girder under oblique wave	Z. Pei K. Iijima M. Fujikubo S. Tanaka S. Okazawa T. Yao	Proceedings of The 27th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures, (2013) pp. 65-72
H38 Solid-Fluid interaction analysis in Eulerian framework based on stabilized finite element method	R. Watanabe S. Okazawa S. Tanaka T. Hamasaki	Proceedings of The 27th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures, (2013) pp. 73-80
H39 Study of buckling/post-buckling behaviors of plate structures using shell-solid mixed analysis	N. Kimura S. Tanaka S. Okazawa	Proceedings of The 27th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures, (2013) pp. 119-124

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H42 Nonlinear analysis of stiffened plate structures using meshfree approach	Shota Sadamoto, Satoyuki Tanaka Shigenobu Okazawa	Proceedings of 5TH ASIA PACIFIC CONGRESS ON COMPUTATIONAL MECHANICS & 4TH INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL MECHANICS, (CD-ROM),, (2013)
H43 Elastoplastic fracture mechanics analysis using X-FEM and wavelet Galerkin method	Shuya Ueda Satoyuki Tanaka Vu Cong Hoa Shigenobu Okazawa Hiroshi Okada	Proceedings of 5TH ASIA PACIFIC CONGRESS ON COMPUTATIONAL MECHANICS & 4TH INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL MECHANICS, (CD-ROM),, (2013)
H44 Seismic response analysis of parallel RC piers considering ground	Tatsuro Sugimoto Shigenobu Okazawa Shota Sadamoto Satoyuki Tanaka	Proceedings of 5TH ASIA PACIFIC CONGRESS ON COMPUTATIONAL MECHANICS & 4TH INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL MECHANICS, (CD-ROM),, (2013)
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H51 Study of an Explicit Meshless Method Using RPIM for Electromagnetic Fields	Y. Tanaka R. Tone Y. Fujimoto	IEEE Transactions on Magnetics, 49 , 5 (2013) pp. 1577-1580
H52 Forced vibration experiments on flexible piezoelectric devices operating in air and water environments	Y. Tanaka T. Oko H. Mutsuda A. A. Popov R. Patel S. Mcwilliam	16th international symposium on applied electromagnetics and meTJ-31.18-9.56okihiro ano4i

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I19 Performance of seismic analysis using E-Simulator on K computer	Hiroshi Akiba Tomoshi Miyamura Makoto Ohsaki Masayuki Kohiyama	Proc. Int. Conf. on Simulation Technology (JSST 2013), (2013)
I20 Analysis and design of deployable frames with partially rigid connections	Seita Tsuda Makoto Ohsaki Yoshihiro kanno	Proc. Annual Symposium of Int. Association of Shell and Spatial Structures (IASS Symposium 2013), (2013)
I21 Free-form design of tensegrity structures by non-rigid-body motion analysis	Jingyao Zhang Makoto Ohsaki	Proc. Annual Symposium of Int. Association of Shell and Spatial Structures (IASS Symposium 2013), (2013)
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I24 A study on the housing supply by a community, for continued existence of a local school	Yumiko Fukuda Fumika Kobayashi Aya Ishigaki Sachiko Yamamoto Reiko Shimokura	International Association for People Environment Studies international network symposium, (2013) pp. 82-83
I25 Analysis on Factors of Summer Temperature Distribution in the Basin City -For Making an Urban Environmental Climate Map of Hadano City, Kanagawa	Shohei Noguchi Takahiro Tanaka Satoru Sadohara	Proceedings of PLEA 2013, (2013)

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J2 Scaling Challenge of Self-Aligned STI cell (SA-STI cell) for NAND Flash Memories	S. Aritome T. Kikkawa	Solid-State Electronics, 82 (2013) pp. 54-62
J3 Advanced DC-SF Cell Technology for 3-D NAND Flash	S. Aritome Y. Noh H. Yoo E. S. Choi H. S. Joo Y. Ahn B. Han S. Chung K. Shim K. Lee S. Kwak S. Shin I. Choi S. Nam G. Cho D. Sheen S. Pyi J. Choi S. Park J. Kim S. Lee S. Hong S. Park T. Kikkawa	IEEE Transactions on Electron Devices, 60 , 4 (2013) pp. 1327-1333
J4 Planar UWB antenna array for breast cancer detection	T. Kikkawa T. Sugitani	2013 7th European Conference on Antennas and Propagation, (2013) pp. 339-343
J5 A breast cancer detection system using 198 ps Gaussian monocycle pulse CMOS transmitter and UWB antenna array	T. Sugitani S. Kubota M. Hafiz A. Toya T. Kikkawa	2013 URSI International Symposium on Electromagnetic Theory, (2013) pp. 372-375
J6 Improvement of Spatial Resolution of Breast Cancer Detection Using 4x4 UWB Antenna Array with Impedance Matching Layer	T. Sugitani S. Kubota X. Xiao T. Kikkawa	2013 International Conference on Solid State Devices and Materials, (2013)
J7 Low-k Mesoporous Pure Silica Zeolite Synthesis with Centrifugation Process of Zeolite Precursor	T. Sato S. Kuroki Y. Kayaba T. Kikkawa	2013 International Conference on Solid State Devices and Materials, (2013)
J8 On-Chip Folded Dipole Antennas for Inter-Chip UWB Signal Transmission	K. Hashimoto T. Sugitani S. Kubota T. Kikkawa	2013 International Conference on Solid State Devices and Materials, (2013)
J9 A 0-27 GHz -30 dB Isolation Tx/Rx Single Pole Double Throw (SPDT) Switch for Gaussian Monocycle Pulse Transmission	A. Azhari K. Sogo M. Wang A. Toya T. Kikkawa	2013 International Conference on Solid State Devices and Materials, (2013)
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J11 Mach-Zehnder Interferometer Optical Modulator With Cascade P/N Junctions	A. K. Sana R. Furutani Y. Amemiya S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2013), (2013) pp. 1004-1005
J12 Fabrication and Evaluation of Differential Si Ring Optical Resonator for Biosensors	T. Taniguchi Y. Amemiya T. Ikeda A. Kuroda S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2013), (2013) pp. 826-827
J13 Multi-Slot Stack-Type Ring Resonator for High Sensitivity Biosensor and Low Voltage Optical Modulator	Y. Amemiya T. Taniguchi T. Ikeda M. Fukuyama A. Kuroda S. Yokoyama	10th Int. Conf. on Group IV Photonics, (2013) pp. 9-10
J14 Low-k Mesoporous Pure Silica Zeolite with High Elastic Modulus Using 1,3,5,7-Tetra-Methyl-Cyclo-Tetra-Siloxane and Ultraviolet Treatments	Tadashi Sato Takafumi Yamamoto Yuki Hata Yutaka Seino Yasuhisa Kayaba Shin-Ichiro Kuroki Takamaro Kikkawa	ECS J. Solid State Sci. Technol., (2013) pp. N89-N92
J15 High performance poly-Si Thin Film Transistor with One-dimensionally Long Si Grains Using DLB Continuous-wave Laser Lateral Crystallization	Masayuki Yamano Shin-Ichiro Kuroki Tadashi Sato Koji Kotani	The proceedings of The Twentieth International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD13), (2013) pp. 199-202
J16 Low Ohmic Contact Formation of Ni Silicide on Partially Si Ion Implanted n+ 4H-SiC	Milantha de Silva Tadashi Sato Shin-Ichiro Kuroki Takamaro Kikkawa	Technical digest of The International Conference on Silicon Carbide and Related Materials 2013(ICSCRM2013), (2013) pp. 62
J17 Phosphorous Ion Implantation into NiGe Layer for Ohmic Contact Formation on n-Ge	Yuya Minoura Takuji Hosoi Jin Matsugaki Shin-Ichiro Kuroki Takayoshi Shimura Heiji Watanabe	2013 International Workshop on DIELECTRIC THIN FILMS FOR FUTURE ELECTRON DEVICES: SCIENCE AND TECHNOLOGY (IWDTF13), (2013) pp. 101-102
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J20 Modeling of the Impurity-Gradient Effect in High-Voltage Laterally-Diffused MOSFETs	T. Iizuka K. Fukushima A. Tanaka T. Sakuda H. Kikuchihara M. Miyake H.J. Mattausch M. Miura-Mattausch	IEEE Trans. on Electron Devices, Vol. 60 , No. 2 (2013) pp. 684-690
J21 The Second Generation of HiSIM_HV Compact Models for High-Voltage MOSFETs	H.J. Mattausch M. Miyake T. Iizuka H. Kikuchihara M. Miura-Mattausch	IEEE Trans. on Electron Devices, Vol. 60 , No. 2 (2013) pp. 653-661
J22 K-means Clustering Algorithm for Multimedia Applications with Flexible HW/SW Co-design	F. An H.J. Mattausch	Journal of System Architecture, Vol. 59 (2013) pp. 155-164

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J23 Analysis and Modeling of Geometry Dependent Thermal Resistance in Silicon-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors	X. Zhou T. Inoue M. Kitamura K. Matsuura M. Miyake T. Iizuka T. Umeda H. Kikuchihara H.J. Mattausch J. He M. Miura-Mattausch	Jpn. J. Appl. Phys., Vol. 52, No. 4 SI, 04CC29 (2013) pp. 1-5
J24 Modeling of Trench-Gate Type HV-MOSFETs for Circuit Simulation	T. Iizuka K. Fukushima A. Tanaka H. Kikuchihara M. Miyake H.J. Mattausch M. Miura-Mattausch	IEICE Trans. on Electronics, Vol. E96-C, No. 5 (2013) pp. 744-751
J25 Power electronics education using the integrated circuit consistent education system and TCAD	Keisuke Konishi Takeshi Tanaka Tetsushi Koide	Proc. of IEEE the Frontiers in Education Conference (FIE2013), (2013) pp. 1456-1458
J26 Compact pipeline hardware architecture for pattern matching on real-time traffic signs detection	Anh-Tuan Hoang Mutsumi Omori Masaharu Yamamoto Tetsushi Koide	Proceeding of the 18th Workshop on Synthesis And System Integration of Mixed Information Technologies (SASIMI 2013), (2013) pp. 100-105
J27 Speed traffic-sign recognition algorithm for real-time driving assistant system	Masaharu Yamamoto Anh-Tuan Hoang Mutsumi Omori Tetsushi Koide	Proceeding of the 18th Workshop on Synthesis And System Integration of Mixed Information Technologies (SASIMI 2013), (2013) pp. 195-200
J28 Smoothing Posterior Probabilities with a Particle Filter of Dirichlet Distribution for Stabilizing Colorectal NBI Endoscopy Recognition	Tsubasa Hirakawa Toru Tamaki Bisser Raytchev Kazufumi Kaneda Tetsushi Koide Yoko Kominami Rie Miyaki Taiji Matsuo Shigeto Yoshida Shinji Tanaka	IEEE International Conference on Image Processing (ICIP2013), (2013)
J29 Development of feature extraction architecture for computer-aided diagnosis system for colorectal endoscopic images with NBI Magnification	Tsubasa Mishima Satoshi Shigemi Anh-Tuan Hoang Tetsushi Koide Toru Tamaki Bisser Raytchev Kazufumi Kaneda Yoko Kominami Rie Miyaki Taiji Matsuo Shigeto Yoshida Shinji Tanaka	Proc. of the 15th IEEE Hiroshima Student Symposium (HISS15th), (2013) pp. B82-1-B82-4
J30 Development of type identification architecture for computer-aided diagnosis system for colorectal endoscopic images with NBI Magnification	Satoshi Shigemi Tsubasa Mishima Anh-Tuan Hoang Tetsushi Koide Toru Tamaki Bisser Raytchev Kazufumi Kaneda Yoko Kominami Rie Miyaki Taiji Matsuo Shigeto Yoshida Shinji Tanaka	Proc. of the 15th IEEE Hiroshima Student Symposium (HISS15th), (2013) pp. B79-1-B79-4

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J31 Pipeline architecture for real-time speed traffic-sign detection on FPGA	Anh-Tuan Hoang Masaharu Yamamoto Mutsumi Omori Tetsushi Koide	Proc. of the 15th IEEE Hiroshima Student Symposium (HISS15th), (2013) pp. B86-1-B86-4
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J33 Biomolecule detection based on Si single-electron transistors for practical use	Anri Nakajima Takashi Kudo Sadaharu Furuse	Appl. Phys. Lett., 103 , 4 (2013) pp. 043702-1-043702-4
J34 Excellent retention characteristics of nanocomposite gate insulator consisting of fullerene-containing polystyrene	Anri Nakajima Daiki Fujii Masatoshi Uchino	Applied Physics Letters, 103 , 1 (2013) pp. 013302-1-013302-4
J35 Characteristics of metal-oxide-semiconductor field-effect transistors with a functional gate using trap charging for ultralow power operation	Takashi Kudo Takashi Ito Anri Nakajima	J. Vac. Sci. & Technol. B, 31 , 1 (2013) pp. 012206-1-012206-7
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Registered Patents

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