

Vol. 62, Supplement

(Only Data in English)

**Bulletin of the Graduate School of Engineering
Hiroshima University**

March, 2014

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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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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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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 International Symposium on System Integration, (2013) pp. 802-807
A56 Behavior Sequence Analysis of Incrementally Evolving Robotic Swarms in a Foraging Task	Toshiyuki Yasuda Kazuhiro Ohkura Nanami Wada Yoshiyuki Matsumura	Proceedings of 2013 IEEE/SICE International Symposium on System Integration, (2013) pp. 790-795
A57 A Self Adaptive Hybrid Artificial Bee Colony Algorithm for Solving CEC 2013 Real-Parameter Optimization Problems	Hai Shan Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of 2013 IEEE/SICE International Symposium on System Integration, (2013) pp. 706-711
A58 Coordinating the collective behavior of swarm robotics systems based on incremental evolution	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura	Proceedings of 2013 IEEE International Conference on Systems, Man, and Cybernetics, (2013) pp. 4024-4029
A59 Multi-Robot Cooperation Based on Continuous Reinforcement Learning with Two State Space Representations	Toshiyuki Yasuda Kazuhiro Ohkura Kazuaki Yamada	Proceedings of 2013 IEEE International Conference on Systems, Man, and Cybernetics, (2013) pp. 4470-4475
A60 A (μ , λ) Evolutionary and Particle Swarm Hybrid Algorithm, with an Application to Dinosaur Gait Optimization	Yoshiyuki Matsumura Ayumu Kobayashi Kiyotaka Sugiyama Todd Pataky Bill Sellers Toshiyuki Yasuda Kazuhiro Ohkura	2013 IEEE 6th International Workshop on Computational Intelligence and Applications (IWCIA) Proceedings, (2013) pp. 89-93
A61 Analyzing Collective Behavior in Evolutionary Swarm Robotic Systems Based on an Ethological Approach	Toshiyuki Yasuda Nanami Wada Kazuhiro Ohkura Yoshiyuki Matsumura	Proceedings of the 2013 IEEE Symposium Series on Computational Intelligence, (2013) pp. 148-155
A62 Speeding up of calculation for myu-synthesis of low order H-infinity controllers	Takuma Iwamoto Masami Saeki Satoshi Satoh Nobutaka Wada	SICE Journal of Control, Measurement, and System Integration, 6 , 3 (2013) pp. 202-207
A63 Rendering of unfalsified PID gain sets for parameter space control design	Masami Saeki	Asian Control Conference 2013, Istanbul Turkey, (2013)
A64 Reference model selection for a model-matching data-driven control design	Masami Saeki Naoki Yamanari Nobutaka Wada Satoshi Satoh	SICE Annual Conference 2013, Nagoya, (2013)

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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 Hiroataka 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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B25 Effect of CH ₃ COOH and K ₂ CO ₃ on hydrothermal pretreatment of water hyacinth (<i>Eichhornia crassipes</i>)	Phacharakamol Petch- pradab Phothisantikul Ranisorn Tuanpusa Minoru Nakashima Tawatchai Charinpanitkul Yukihiko Matsumura	Ind. Eng. Chem. Res., 52 , 14 (2013) pp. 5009-5015
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
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B34 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. 3369-3377
B35 Effects of Inert Gases on the Vortex Bursting in Small Diameter Tubes	Daisuke Shimokuri Yuuji Karatsu, Satoru Ishizuka	Proceedings of the Combustion Institute, 34 (2013) pp. 3403-3410
B36 Fundamental investigation on the Fuel-NO _x emission characteristics of non-preheating oxy-fuel combustion with a swirl type tubular flame	Shinichi Fukuba Daisuke Shimokuri Satoru Ishizuka	Proceedings of the 9th Asia-Pacific Conference on Combustion, (2013) pp. 66
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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B45 Characterization of a microhollow cathode discharge plasma in helium or air with water vapor	D. Fukuhara S. Namba K. Kozue T. Yamasaki K. Takiyama	Plasma Sci. Technol., 15 (2013) pp. 129-132
B46 An analytic formula to describe transient rotational dynamics of diatomic molecules in an optical frequency comb	A. Ichihara L. Matsuoka Y. Kurosaki K. Yokoyama	Chinese Journal of Physics, 51 (2013) pp. 1193-1203
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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
B56 Estimation of close-in fallout ^{137}Cs deposition level due to the Hiroshima atomic bomb from soil samples under houses built 1-4 years after the explosion,	M. Yamamoto M. Hoshi K. Zhumadilov S. Endo A. Sakaguchi T. Imanaka Y. Miyamoto	Revisit the Hiroshima A-bomb with a Database Vol. 2, Hiroshima City 2013, ISBN: 978-4-9905935-1-3 (2013) pp. 35-43
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C58 A Tuning Method of PID parameters by FRIT based on Control Performance Index	Yoshihiro Ohnishi Toru Yamamoto	Proc. of SICE Annual Conference, (2013)
C59 Sustainable Production Planning Using the Ranked Positional Weight Technique and Bayesian Estimation	Takayuki Kataoka Atsushi Hanafuji Masakazu Kanezashi Katsumi Morikawa Katsuhiko Takahashi	International Journal of Japan Association for Management Systems, 5 , 1 (2013) pp. 25-30
C60 Green Supplier Selection: Becoming Green While Costless	Sumarsono Sudarto T. Yuri M. Z. Amar Rachman Katsuhiko Takahashi Katsumi Morikawa	Proceedings of the 13th European Workshop on Efficiency and Productivity Analysis (EWEP A 2013), (2013)
C61 An Integrated Technology and Financial Support Model in Technology Transfer	R. B. Seno Wulung Katsuhiko Takahashi Katsumi Morikawa	Proceedings of the 19th ICE and IEEE-ITMC(International Technology Management Conference), (2013)

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C63 The impact of relationship strategies coevolution on survivability of firms inside supply networks	Mohamad Sofitra Katsuhiko Takahashi Katsumi Morikawa	Proceeding of 17th International Conference on Industrial Engineering Theory, Applications and Practice (IJIE2013), (2013) pp. 353-363
C64 Designing a conceptual model of integration between corporate social responsibility and supply chain in relationship to sustainable indicators	Sumarsono Sudarto Katsuhiko Takahashi Katsumi Morikawa	Proceeding of 17th International Conference on Industrial Engineering Theory, Applications and Practice (IJIE2013), (2013) pp. 377-386
C65 Work policy for self-balancing production line with worker's learning	Daisuke Hirotsu Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 14th Asia Pacific Industrial Engineering & Management Systems Conference (APIEMS 2013), (2013)
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C70 Security issues for mega penetration of photovoltaic power generation in future electric power systems. A case study of stability for power swing oscillation using the IEEJ WEST 10-machine model	Yoshiharu Okumoto Naoto Yorino Yutaka Sasaki Yoshifumi Zoka Shoki Fujita Toshihiro Yamanaka	ELECTRICAL ENGINEERING IN JAPAN, 184 , 3 (2013) pp. 1-13
C71 A Study of Reallocation Planning for Section Switches Considering Employment Cost and Intermittent Renewable Energy	Kazunori Kurihara Yutaka Sasaki Yoshifumi Zoka Naoto Yorino	ELECTRICAL ENGINEERING IN JAPAN, 184 , 2 (2013) pp. 36-43
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C79 Bioassay System Based on Behavioral Analysis and Bioelectric Ventilatory Signals of a Small Fish	Zu Soh Shigehisa Kitayama Akira Hirano Toshio Tsuji	IEEE Transactions on Instrumentation and Measurement, 62 , 12 (2013) pp. 3265-3275
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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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C97 A Real-Time Microscopic PIV System Using Frame Straddling High-Frame-Rate Vision	Motofumi Kobatake Tadayoshi Aoyama Takeshi Takaki Idaku Ishii	Journal of Robotics and Mechatronics, 25 , 4 (2013) pp. 586-595
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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
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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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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
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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
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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
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F49 Photocatalytic decomposition of 2-propanol and acetone in air by nanocomposites of pre-formed TiO ₂ particles and mesoporous silica	Hiroyuki Sakai Yuji Kubota Kosuke Yamaguchi Hiroshi Fukuoka Kei Inumaru	Journal of Porous Materials, 20 (2013) pp. 693-699
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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. Tsumoji Y. Furumoto, Y. Ide M. Sadakane T. Sano	J. Jpn. Petrol. Inst., 56 (2013) pp. 22-31
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F64 Combustion of volatile organic compounds over composite catalyst of Pt/ γ -Al ₂ O ₃ and beta zeolite	Y. Takamitsu S. Yoshida W. Kobayashi H. Ogawa T. Sano	J. Environ. Sci. Health, Part A, 48 (2013) pp. 667-674
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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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F73 High potential of interzeolite conversion method for zeolite synthesis	T. Sano M. Itakura M. Sadakane	J. Jpn. Petrol. Inst., 56 (2013) pp. 183-197
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
F75 Assembly of a pentagonal polyoxometalate building block, [Mo ₆ O ₂₁] ⁶⁻ , into crystalline Mo-V oxides	Masahiro Sadakane Keisuke Endo Katsunori Kodato Satoshi Ishikawa Toru Murayama Wataru Ueda	Euro. J. Inorg. Chem., (2013) pp. 1731-1736

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F77 Synthesis of novel orthorhombic Mo and V based complex oxides coordinating alkylammonium cation in its heptagonal channel and their application as a catalyst	Satoshi Ishikawa Toru Murayama Shunpei Ohmura Masahiro Sadakane Wataru Ueda	Chem. Mater., 25 (2013) pp. 2211-2219
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G2 Fracture Energy of Concrete and Shear Strength of RC Beams Internally Cured Using Porous Ceramic-Roof Tile Waste Aggregate	Mwangi Martin Macharia Yuko Ogawa Kenji Kawai Ryoichi Sato	Proceedings of 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures, (2013)
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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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H41 Analysis of two-dimensional crack problems using X-FEM and wavelet Galerkin method	Satoyuki Tanaka Hiroshi Okada Shigenobu Okazawa	Proceedings of XFEM, GFEM and fictitious domain methods: recent developments and applications (XFEM2013), (2013)
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)
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H48 A Study on Optimizing the Structures which Set the Number of Member Subjects and Plate Thickness to the Design Variable	Ryota Nonami Mitsuru Kitamura Akihiro Takezawa Shinichi Hirakawa	Proceedings of 10th World Congress on Structural and Multidisciplinary Optimization, (2013)
H49 Topology optimization of dielectric ring resonators in application on laser resonators and optical sensors	Akihiro Takezawa Masanobu Haraguchi Toshihiro Okamoto Mitsuru Kitamura	Proceedings of 10th World Congress on Structural and Multidisciplinary Optimization, (2013)
H50 PZT layout optimization in semi-active vibration control systems of large space truss structures based on ground structure approach	Akihiro Takezawa Kanjuro Makihara Nozomu Kogiso Mitsuru Kitamura	Proceedings of 10th World Congress on Structural and Multidisciplinary Optimization, (2013)
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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
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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)
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