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Published Papers

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A1 Experiments on detonation initiation and propagation in extremely thin channels	Shunsuke Hasegawa Masashi Shimizu Akio Susa Takuma Endo	Science and Technology of Energetic Materials, 72 , 2 (2011) pp. 62-67
A2 Experiments on Pulse Detonation Turbine Engine	Takuma Endo Akio Susa Akihiko Mitsunobu Tomoaki Takahashi	Proceedings of the 2nd Workshop on Detonations and Detonation Engines, (2011) pp. 8-11
A3 Moving-Component-Free Pulse-Detonation Combustors and Their Use in Ground Applications	Takuma Endo Akio Susa Tomoya Akitomo Tetsuya Okamoto Kyohei Kanekiyo Yukio Sakaguchi Hiroyuki Yokoyama Shin-ichi Kato Akihiko Mitsunobu Tomoaki Takahashi Tatsuo Hanafusa Shuko Munehiro	Proceedings of the 23rd International Colloquium on the Dynamics of Explosions and Reactive Systems, (2011)
A4 Experiments on Hydrodynamic Stability of Laser-Driven Detonations in Nitrogen and Helium Gases	Tomohisa Honda Akira Kawaguchi Yoshiki Hanta Akio Susa Shin-ichi Namba Takuma Endo Hiroyuki Shiraga Keisuke Shigemori Mayuko Koga	Proceedings of the 23rd International Colloquium on the Dynamics of Explosions and Reactive Systems, (2011)
A5 Oscillating propagation of near-limit detonations of CH ₄ /O ₂ system in a small diameter tubes	Akio Susa Shunsuke Hasegawa Hiroyuki Yokoyama Takuma Endo Y. Ogawa Y. Morii Nobuyuki Tsuboi	Proceedings of the 23rd International Colloquium on the Dynamics of Explosions and Reactive Systems, (2011)
A6 Development of Pulse-Detonation Technology in Valveless Mode and Its Application to Turbine-Drive Experiments	Takuma Endo Akio Susa Kyohei Kanekiyo Yoshiki Hanta Akihiko Mitsunobu Tomoaki Takahashi	Proceedings of the 2011 International Workshop on Detonation for Propulsion, (2011)
A7 Finite element stress analysis and strength evaluation of epoxy-steel cylinders subjected to impact push-off loads	L. Liao T. Sawa	International Journal of Adhesion & Adhesives, 31 , 5 (2011) pp. 322-330
A8 Stress Analysis and Sealing Performance Evaluation in Rectangular Box-Shape Bolted Flange Connection With Gasket Subjected to Internal Pressure	T. Sawa R. Kurosawa W. Maezaki	Journal of Pressure Vessel Technology, 133, 133 , 2 (2011) pp. 021201-1-021201-8
A9 3-D FEM stress analysis and strength evaluation of single-lap adhesive joints subjected to impact loads	L. Liao T. Kobayashi T. Sawa Y. Goda	International Journal of Adhesion & Adhesives, 31 , 7 (2011) pp. 612-619
A10 Study on the Effect of Strain Rate of Adhesive Material on the Stress State in Adhesive Joints	Y. Goda T. Sawa	The Journal of Adhesion, 87 , 7-8 (2011) pp. 766-779

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A11 FEM Stress Analysis of the Characteristics of Bolted Joints Under External Loadings (In the Case Where Two Hollow Cylinders Are Clamped)	T. Sawa K. Kuwaki Y. Morozumi M. Okumura	ASME 2011 International Design Engineering Technical Conference & Computers and Information in Engineering Conference (IDETC2011), (2011)
A12 Effects of Strain Rate on the Stress Propagations in Bonded Shrink Fitted Joints Under Impact Push-Off Loadings	L. Liao T. Sawa T. Kobayashi Y. Goda	ASME 2011 International Design Engineering Technical Conference & Computers and Information in Engineering Conference (IDETC2011), (2011)
A13 Leak Tightness Based Design Procedure for Gasketed Pipe Flange Connections	Toshiyuki Sawa Takashi Kobayashi Hirokazu Tsuji Satoshi Nagata	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A14 Finite Element Stress Analysis for Leak Tests of Pipe Flange Connections Subject to Internal Pressure and Bending Moment	Satoshi Nagata Toshiyuki Sawa Takashi Kobayashi Hirokazu Tsuji	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A15 Evaluation of Sealing Performance and FEM Calculations in Bolted Flange Connections With Ring Joint Gasket Subjected to Internal Pressure	Kentaro Tenma Tsutomu Kikuchi Toshiyuki Sawa Kazuhide Horiuchi	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A16 FEM Calculation and Evaluation of Sealing Performance in Oil Pan Wavy-Shaped Flange Gasketed Connections	Ryo Kurosawa Kentaro Tenma Toshiyuki Sawa	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A17 Effects of Nut Thinning due to Corrosion on the Strength Characteristics and the Sealing Performance of Bolted Flange Joints Under Internal Pressure	Tsutomu Kikuchi Toshiyuki Sawa Yuya Omiya	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A18 Sealing Performance and FE Analysis of Pipe Flange Connection With Gasket Under Cyclic Thermal Condition	Yuya Omiya Yoshio Takagi Toshiyuki Sawa Hiroyasu Tsuji	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A19 Stress Concentration at the Root of Bolt Thread Under Twist With Deformable Flanges	Yasumasa Shoji Toshiyuki Sawa	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A20 FEM Stress Analysis and the Sealing Performance Evaluation of Pipe Flange Connections Subjected to External Bending Moments and Internal Pressure	Kazuhide Horiuchi Yoshio Takagi Toshiyuki Sawa	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A21 New Analytical Approach to Predict Creep Void Growth in Heat-Affected Zone of High Cr Steel Weldments	Eiji Murakami Takeshi Iwamoto Toshiyuki Sawa	ASME 2011 Pressure Vessel & Piping conference (PVP2011), (2011)
A22 A study on capturing a transformation-thermomechanical behavior of TRIP steel during impact compression	Shiro Yamanaka Takeshi IWAMOTO Toshiyuki Sawa	Materials Research Innovations, Vol. 15 , Supplement 1 (2011) pp. s131-s134
A23 Bending deformation behavior of TRIP steel at several deflection rates	Shin-ya Hashimoto Takeshi IWAMOTO Toshiyuki Sawa	Materials Research Innovations, Vol. 15 , Supplement 1 (2011) pp. s122-s125
A24 Nonlinear responses of dual-pendulum dynamic absorbers	Takashi Ikeda	Trans. ASME, J. Computational and Nonlinear Dynamics, 6 , 1 (2011) pp. 011012-1-011012-11
A25 Nonlinear dynamic responses of elastic structures with two rectangular liquid tanks subjected to horizontal excitation	Takashi Ikeda	Trans. ASME, J. Computational and Nonlinear Dynamics, 6 , 2 (2011) pp. 021001-1-021001-15
A26 Intrinsic localized modes in nonlinear discrete mechanical systems	Takashi Ikeda Yuji Harata	Proceedings of the 7th European Nonlinear Dynamics Conference (ENOC2011), (2011)

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A27 Autoparametric resonances of elastic structures coupled with two sloshing modes in a square liquid tank	Takashi Ikeda Masaki Takashima Yuji Harata	Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2011), (2011)
A28 Parametric excitation based bipedal walking: Control method and optimization	Yuji Harata Yoshihisa Banno Kouichi Taji	Numerical Algebra, Control and Optimization, 1 , 1 (2011) pp. 171-190
A29 An optimizing method for a reference trajectory of parametric excitation walking	Kouichi Taji Yoshihisa Banno Yuji Harata	Robotica, 29 , 4 (2011) pp. 585-593
A30 Parametric excitation based inverse bending gait generation	Yuji Harata Fumihiko Asano Kouichi Taji Yoji Uno	Robotica, 29 , 6 (2011) pp. 831-841
A31 Development and experiment of a kneed biped walking robot based on parametric excitation principle	Yoshihisa Banno Yuji Harata Kouichi Taji Yoji Uno	Proceedings of the 2011 IEEE/RSJ International Conference on Intelligent Robots and Systems, (2011) pp. 2934-2939
A32 FEM Stress Analysis and Strength Prediction of Stepped-Lap Adhesive Joints of Similar Hollow Cylinders Under Static Tensile Loadings	Kazunari Kotajima Yasuhisa Sekiguchi Takashi Kobayashi Yuta Ueda Toshiyuki Sawa	Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition, (2011)
A33 Two-Dimensional FEM Stress Analysis of Adhesive Butt Joints Filled With Nano-Composite in Adhesive Subjected to Static Tensile Loading	Toshiyuki Sawa Shogo Tanabe Takashi Kobayashi Kazunari Kotajima Yasuhisa Sekiguchi	Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition, (2011)
A34 In Situ Diagnosis of a Gear-Tooth Surface Damage Using Laser Scattering	Eiichirou Tanaka Kazuteru Nagamura Kiyotaka Ikejo Ryozo Nemoto	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 5 , 3 (2011) pp. 199-213
A35 Vibration Analysis of Elliptical Gears	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo Yushiro Tachibana Toshiyuki Matsuki	Proceedings of The 4th International Conference on Manufacturing, Machine Design and Tribology (ICMDT2011), Gamagori, Aichi, JAPAN, April 24-27, (2011) pp. 19-20
A36 A new-type Torque Limiter with Friction Adjusting Mechanism for Robots	Nobuaki Imamura Akihiro Sato Akira Yoshida Kazuteru Nagamura	Proceedings of The 13th World Congress in Mechanism and Machine Science (IFTOMM2011), June 19-25, 2011, Guanajuato, Mexico, USB Memory A12-268, (2011) pp. 1-6
A37 Churning Loss of Spur Gear in Oil Bath Lubrication	Yuichi Ikeda Kiyotaka Ikejo Kazuteru Nagamura Shogo Tsuge	Extended Abstract of International Tribology Conference, Hiroshima 2011, Hiroshima, Japan, October 30 - November 3, 2011, USB Memory P07-08, (2011)
A38 Wear of Free Cutting Brass Spur Gears with Non-Involute Tooth Profile	Shinya Nakagawa Kazuteru Nagamura Kiyotaka Ikejo Natsuhiko Seyama Masaya Torii	Extended Abstract of International Tribology Conference, Hiroshima 2011 Hiroshima, Japan, October 30 - November 3, 2011, USB Memory P07-09, (2011)
A39 An Approach of Estimation of Distribution Algorithm for Job Shop Scheduling	Toru Eguchi Masahiro Fujimoto Takeshi Murayama	Proceedings of the 3rd International Symposium on Digital Manufacturing 2011, (2011) pp. 101-106

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A41 A Method of Constructing Cooperative Work Groups for Concurrent Engineering	Takeshi Murayama Toru Eguchi Akira Ogawa	Proceedings of the 3rd International Symposium on Digital Manufacturing 2011, (2011) pp. 410-415
A42 Numerical investigations of rarefied gas flows using the continuum description by the CIP Method	Youichi Ogata Takefumi Kawaguchi	Journal of Fluid Science and Technology, 6 , 2 (2011) pp. 215-229
A43 Quantitative Analyses of Fuel Spray - Ambient Gas Interaction by Means of LIF-PIV Technique	Jingyu Zhu Keiya Nishida Olawole Abiola Kuti Seoksu Moon	Atomization and Sprays, 21 , 6 (2011) pp. 447-465
A44 Effects of Injection Pressure and Ambient Gas Density on Fuel - Ambient Gas Mixing and Combustion Characteristics of D.I. Diesel Spray	Jungyu Zhu Olawole Abiola Kuti Keiya Nishida	CD-ROM Proceedings of 2011 JSAE/SAE International Powertrains, Fuels & Lubricants Meeting, JSAE 20119523 / SAE 2011-32-0523 (2011) pp. 1-18
A45 Experimental Study on Mixture Formation and Ignition Processes of Spray Injected by Hole-Type Nozzle for DISI Engine	Jiangping Tian Hajime Kataoka Keiya Nishida	CD-ROM Proceedings of 17th Small Engine Technology Conference, SETC 2011, (2011) pp. 1-8
A46 Experimental and Numerical Studies on Mixture Formation and Ignition Processes of Sprays Injected by Hole-Type Nozzle for DISI Engine	Jiangping Tian Hajime Kataoka Keiya Nishida Wuqiang Long	Proceedings of the 15th Annual Conference on Liquid Atomization and Spray Systems - Asia, ILASS-Asia 2011, (2011) pp. 327-338
A47 Effects of Injection Pressure and Ambient Gas Density on Mixing and Combustion Characteristics of D.I. Diesel Fuel Spray	Jingyu Zhu Keiya Nishida	CD-ROM Proceedings of the 4th International Symposium on Clean and High-Efficiency Combustion in Engines, ISCE '2011, (2011)
A48 Improving the Robustness of Instance-Based Reinforcement Learning Robots by Metalearning	Toshiyuki Yasuda Kousuke Araki Kazuhiro Ohkura	Journal of Advanced Computational Intelligence and Intelligent Informatics, 15 , 8 (2011) pp. 1065-1072
A49 Preservation and Application of Acquired Knowledge Using Instance-Based Reinforcement Learning for Multi-Robot Systems	Junki Sakanoue Toshiyuki Yasuda Kazuhiro Ohkura	Journal of Advanced Computational Intelligence and Intelligent Informatics, 15 , 8 (2011) pp. 1109-1115
A50 Implementing Genetic Algorithms to CUDA Environment Using Data Parallelization	Masashi Oiso Yoshiyuki Matsumura Toshiyuki Yasuda Kazuhiro Ohkura	Technical Gazette, 18 , 4 (2011) pp. 511-517
A51 Accelerating Steady-State Genetic Algorithms based on CUDA Architecture	Masashi Oiso Yoshiyuki Matsumura Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of 2011 IEEE Congress on Evolutionary Computation, (2011)
A52 Instance-Based Reinforcement Learning Technique with a Meta-Learning Mechanism for Robust Multi-Robot Systems	Toshiyuki Yasuda Motohiro Wada Kazuhiro Ohkura	Proceedings of the 12th Conference Towards Autonomous Robotic Systems, (2011) pp. 161-172
A53 Analyzing macroscopic behavior in a swarm robotic system based on clustering	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura	Proceedings of the SICE Annual Conference 2011, (2011) pp. 356-361
A54 An Application of Smart Technologies from Collective Intelligence of Evolutionary Robotics to Innovative Fiber Production Systems	Yoshiyuki Matsumura Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of 6th International Conference on Advanced Fiber/Textile Materials, (2011)

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A55 Self-Organized Task Allocation in Reinforcement Learning Robots and a Human Partner	Toshiyuki Yasuda Soichiro Nomura Kazuhiro Ohkura	Proceeding of the 14th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2011) pp. 152-159
A56 Evolving Robot Controllers for a Homogeneous Robotic Swarm	Kazuhiro Ohkura Toshiyuki Yasuda Tomonori Sakamoto Yoshiyuki Matsumura	Proceedings of 2011 IEEE/SICE International Symposium on System Integration, (2011) pp. 708-713
A57 Partial tuning of dynamical controllers by data-driven loop-shaping	Masami Saeki Yosuke Sugitani	SICE Journal of Control, Measurement, and System Integration, 4 , 1 (2011) pp. 71-76
A58 Robust performance design of a state predictive controller on parameter space	Masami Saeki Assi Mouhammad	the 18 th IFAC World Congress, (2011) pp. 7414-7419
A59 A data-driven PID control design by linear programming for stable plants	Masami Saeki Ryoyu Kishi	the 18 th IFAC World Congress, (2011) pp. 7420-7425
A60 Speeding up of calculation for μ -synthesis of low order H_{∞} controllers	Takuma Iwamoto Masami Saeki Satoshi Satoh	Proceedings of the SICE Annual Conference 2011, (2011) pp. 1762-1767
A61 Vehicle Yaw Control Using an Active Front Steering System with Measurements of Lateral Tire Forces	Nobutaka Wada Akihiro Takahashi Masami Saeki Masaharu Nishimura	Journal of Robotics and Mechatronics, 23 , 1 (2011) pp. 83-93
A62 Repetitive control of Hamiltonian systems based on variational symmetry	Kenji Fujimoto Satoshi Satoh	Systems & Control Letters, 60 , 9 (2011) pp. 763-770
A63 Periodic gait generation via repetitive optimal control of Hamiltonian systems	Satoshi Satoh Kenji Fujimoto Sang-Ho Hyon	Proceedings of the 18th IFAC World Congress, (2011) pp. 6912-6917
A64 Permeability of Sintered Porous Metal in Finishing Process with Grinding and Electric Discharge Surface Modification	Keiji Yamada Junji Tsuboi Katsuhiko Sekiya Yasuo Yamane	Proc. of the 6th Int. Conf. on Leading Edge Manufacturing in 21st Century, (2011)
A65 A Study on Aspects of Attrition Wear of Cutting Grains in Grinding Process	Keiji YAMADA Takashi UEDA Akira HOSOKAWA	International Journal of Precision Engineering and Manufacturing, 12 , 6 (2011) pp. 965-973
A66 Quantifying the technology level of production system for technology transfer	Yasuo Yamane Katsuhiko Takahashi Kunihiro Hamada Katsumi Morikawa Senator Nur Bahagia Lucia Diawati Andi Cakravastia	Industrial Engineering & Management Systems, 10 , 2 (2011) pp. 97-103

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B1 Development of Hot-wire Laser Welding Method for Lap Joint of Steel Sheet with Wide Gap	Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Daigo Fujita Takeshi Inoue Mitsugi Fukahori Yoichiro Kitahara	Quarterly J. Japan Welding Society, 29 , 3 (2011) pp. 58s-61s
B2 Development of High-efficiency and High-quality Hot-wire Laser Fillet Welding Process	Kota Kadoi Kenji Shinozaki Motomichi Yamamoto Katsura Owaki Koutarou Inose	Quarterly J. Japan Welding Society, 29 , 3 (2011) pp. 62s-65s
B3 Effect of Grain Size on Solidification Cracking Susceptibility of Type 347 Stainless Steel during Laser Welding	Kenji Shinozaki Peng Wen Motomichi Yamamoto Kota Kadoi Yusuke Kohno Takuo Komori	Quarterly J. Japan Welding Society, 29 , 3 (2011) pp. 90a-94s
B4 Effects of Tool Geometry and Process Conditions on Material Flow and Strength of Friction Stir Spot Welded Joint	Shohei Horie Kenji Shinozaki Motomichi Yamamoto Kota Kadoi Tom North	Quarterly J. Japan Welding Society, 29 , 3 (2011) pp. 119s-123s
B5 Bead Formation and Wire Temperature Distribution during Ultra-High-speed GTA Welding using pulse-heated hot-wire	Kenji Shinozaki Motomichi Yamamoto Koichi Mitsuhashi Toshiharu Nagashima Tatsunori Kanazawa Hitoshi Arashin	Welding in the world, 55 (2011)
B6 Hotwire laser welding for automotive	Yoichiro Kitahara Mitsugi Fukahori Kenji Shinozaki Motomichi Yamamoto	Industrial Laser Solutions, 26 , 5 (2011)
B7 Relationship between Foam Stabilization and Physical Properties of Particles on Aluminum Foam Production	Kota Kadoi Hideo Nakae	Materials Transactions, 52 , 10 (2011) pp. 1912-1919
B8 In-situ Temperature Measurement using High-speed Camera during Welding	Akira Fujinaga Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Kenji Mitsui Hiroyuki Usui	Proc. of 25th Asia-pacific Technical Exchange and Advisory Meeting on Marine Structure, (2011) pp. 68-75
B9 Development of High-efficiency / High-quality Fillet Welding Process using Hot-wire Laser Welding Method	Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Katsura Owaki Koutarou Inose	Proc. of 25th Asia-pacific Technical Exchange and Advisory Meeting on Marine Structure, (2011) pp. 564-569
B10 Development of High-efficiency / High-quality Fillet Welding Process using Hot-wire Laser Welding Method	Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Katsura Owaki Koutarou Inose	Proc. of 64th Annual Assembly & International Conference of the International Institute of Welding, (2011)
B11 Long time stability of Pb-free Sn-9Zn elements for AC-low voltage fuse performance	K. Matsugi Y. Iwashita Y. B. Choi G. Sasaki K. Fujii	Materials Transactions, 52 , 4 (2011) pp. 753-758

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B12 Preparation of unidirectional carbon fiber perform for aluminum matrix composites	M.H. Lee Y. B. Choi K. Sugio K. Matsugi G. Sasaki	Materials Transactions, 52 , 5 (2011) pp. 939-942
B13 Fabrication and characterization of unidirectional CF/Al composites	M.H. Lee Y. B. Choi K. Sugio K. Matsugi G. Sasaki	Sci. Eng. Compos. Mater., 18 (2011)
B14 Property-Control of TiNi System Intermetallics and their Characteristics	K. Matsugi T. Kashiwagi Y. B. Choi G. Sasaki	Materials Transactions, 52 , 12 (2011) pp. 2189-2196
B15 Evaluation of thermal conductivity of Cf/Al composites fabricated by low pressure infiltration methods	M. H. Lee Y. B. Choi K. Matsugi K. Sugio G. Sasaki	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. T6-1-IF0532- 1-5
B16 Tensile and trans-thickness tensile/inter-laminar shear failure behavior of nite-SiC/SiC composite	Y. B. Choi T. Hinoki K. Ozawa Y. Katoh K. Matsugi G. Sasaki	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. W22-1-IF0421- 1-4
B17 Fabrication process and microstructure of VGCFs/Al composites by spark sintering	G. Sasaki Z. F. Xu Y. B. Choi K. Sugio K. Matsugi	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. F12-3-AF0951- 1-5
B18 Fabrication of intermetallic compound dispersed aluminum matrix composites by porous nickel	S. Takiguchi Y. B. Choi K. Matsugi G. Sasaki W. J. Park W. J. Lee	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. P4-29-AF0539- 1-5
B19 Microstructure and mechanical properties of Al ₂ O ₃ /A336 composite by low pressure infiltration	T. Harimoto Y. B. Choi K. Matsugi G. Sasaki	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. P4-31-IF0554- 1-4
B20 Influence of interfacial reactant on the strength and fracture behavior of CF/Al composites	M. H. Lee Y. B. Choi K. Sugio K. Matsugi G. Sasaki	Proc. of 8th Korea-Japan Joint Symp. on Composite Materials, (2011) pp. 83-84
B21 Analysis of low pressure infiltration for molten aluminum to porous FeCrSi fiber	G. Sasaki N. Nishimura Y. B. Choi K. Sugio K. Matsugi	Proc. of 8th Korea-Japan Joint Symp. on Composite Materials, (2011) pp. 87-88
B22 Development of intermetallic compound dispersed aluminum matrix composites with a new process	Y. B. Choi S. Takiguchi K. Matsugi G. Sasaki	Proc. of 8th Korea-Japan Joint Symp. on Composite Materials, (2011) pp. 89-90
B23 Observation of Settling Behavior of Particles in Slurry under Centrifugal Force	Hiroyuki Y. Suzuki	J. Jpn. Soc. Microgravity Appl. (S84-S88), 28 , 2 (2011) pp. S84-S88
B24 Evaluation of Particle Spatial Distribution in Particle Dispersed Composites	K. Sugio G. Sasaki O. Yanagisawa	Proc. of 18th Int. Conf. on Composite Materials, (2011) pp. F24-2-AF1291-1-5
B25 Low Multiplicity Burst Search at the Sudbury Neutrino Observatory	B. Aharmim Ryuta Hazama et al.	Astrophysical Journal, 728 (2011) pp. 83-1-83-7

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B26 The MAJORANA Experiment	C.E. Aalseth Ryuta Hazama et al.	Nuclear Physics B (Proc.Suppl.), 217 (2011) pp. 44-46
B27 Astroparticle Physics with a Customized Low-Background Broad Energy Germanium Detector	C.E. Aalseth Ryuta Hazama et al.	Nuclear Instruments and Methods in Physics Research A, 652 (2011) pp. 692-695
B28 Radiological aspects of the LUSI brick and Ningyo-toge brick via low-background HPGe spectrometer	E. Simon Ryuta Hazama	Proceedings of the 12th Workshop on Environmental Radioactivity, Mar. 8-10, KEK, Japan, KEK-Proc., 2011-7 (2011) pp. 86-91
B29 Elucidation of thermal pretreatment kinetics of bio-oil feedstock premixed with calcium hydroxide and glycerol for reactive biodiesel production via ethanolysis in developing countries	Hendrex Kazembe-Phiri Yukihiko Matsumura Tomoaki Minowa	J. Jpn. Inst. Energy, 90 , 2 (2011) pp. 172-176
B30 Role of 5-HMF in supercritical water gasification of glucose	Athika Chuntanapum Yukihiko Matsumura	J. Chem. Eng. Jpn., 44 , 2 (2011) pp. 91-97
B31 Energy balance of a staged process for the supercritical water gasification of a hydrogen fermentation residue of food waste	Hiroto Munetsuna Masahiro Tamai Yoji Noda Yukihiko Matsumura	J. Jpn. Inst. Energy, 90 , 5 (2011) pp. 455-460
B32 Acid-catalyzed char formation from 5-HMF in subcritical water	Athika Chuntanapum Takayuki Shii Yukihiko Matsumura	J. Chem. Eng. Jpn., 44 , 6 (2011) pp. 431-436
B33 Reaction characteristics of glycerol pretreatment of bio-oil with calcium hydroxide for biodiesel production	Hendrex W. Kazembe-Phiri Yukihiko Matsumura Tomoaki Minowa	J. Jpn. Petrol. Inst., 54 , 4 (2011) pp. 266-271
B34 MD study of functionalized single-walled carbon nanotube	Shuhei Inoue Yukihiko Matsumura	J. Therm. Sci. Technol. (Tokyo, Jpn.), 6 , 2 (2011)
B35 Temperature effect on hydrothermal decomposition of glucose in sub- and supercritical water	Chutinan Promdej Yukihiko Matsumura	Ind. Eng. Chem. Res., 50 , 14 (2011) pp. 8492-8497
B36 Heat transfer characteristics of biomass slurry under high pressure and high temperature	Takashi Noguchi Yoji Noda Yoshihiko Yamasaki Shuhei Inoue Yoshifumi Kawai Yoshihisa Shimizu Tomoaki Minowa Yukihiko Matsumura	J. Jpn. Inst. Energy, 90 , 9 (2011) pp. 874-880
B37 New correlation for mass transfer characteristics of spray column	Tsuba Tanda Koichi Shirai Yukihiko Matsumura Hiroyuki Kitahara	Ind. Eng. Chem. Res., 50 , 23 (2011) pp. 13554-13560
B38 Synthesis of single-walled carbon nanotubes using laser-vaporized metal nanoparticle catalyst	Masamichi Kohno Teppei Kawahara Masahiro Tomoda Yasuyuki Takata Shuhei Inoue Shinzo Suzuki Shigeo Maruyama	JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, 25 , 1 (2011) pp. 11-15
B39 MD Study of Functionalized Single-Walled Carbon Nanotube	Shuhei Inoue Yukihiko Matsumura	Journal of Thermal Science and Technology, 6 (2011) pp. 256-267
B40 Flame propagation in a vortex flow within small diameter tubes	Daisuke Shimokuri Yuuya Honda Satoru Ishizuka	Proceedings of the Combustion Institute, 33 , 2 (2011) pp. 3251-3258
B41 NO _x emission characteristics and aerodynamic structure of a self-recirculation type burner for small boilers	Kenichi Shinomori Kousuke Katou Daisuke Shimokuri Satoru Ishizuka	Proceedings of the Combustion Institute, 33 , 2 (2011) pp. 2735-2742

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B42 An experimental study on Methane/Oxygen-Air Combustion with a rapidly mixed type tubular flame burner	Baolu Shi Tatsuya Kowari Daisuke Shimokuri Satoru Ishizuka	Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference 2011, (2011)
B43 Effects of the Air - Fuel Ejection Velocity Ratio on the Combustion Characteristics and the Unburned Gas Compositions of the Propane - Air Rapidly Mixed Tubular Flame Combustion	Yerei Wang Kimiaki Kimura Naoshi Gokita Daisuke Shimokuri Satoru Ishizuka	Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference 2011, (2011)
B44 Emission spectroscopy of a microhollow cathode discharge plasma in helium-water gas mixtures	S. Namba T.Yamasaki Y.Hane D.Fukuhara K.Kozue K.Takiyama	J. Appl. Phys., 110 (2011) pp. 073307
B45 Electron spectra of xenon clusters irradiated with a laser-driven plasma soft-x-ray laser pulse	S. Namba N. Hasegawa M. Kishimoto M. Nishikino K.Takiyama T. Kawachi	Phys. Rev. A, 84 (2011) pp. 053202
B46 Spectroscopic measurement of an inertial electrostatic confinement discharge	K. Takiyama S. Namba S. Furukawa Y. Kuramoto K. Nakanishi O. Tsunefuji	Proc. 30th International Conference on Phenomena in Ionized Gases, (2011)
B47 Microdosimetric evaluation of neutron field for BNCT at Kyoto university reactor by using the PHITS code	H. Baba Y. Onizuka M. Nakao M. Fukabori T. Satoh Y. Sakurai H. Tanaka S. Endo	Radiat. Prot. Dos., 143 (2011) pp. 528-532
B48 Development of monitoring method of spatial neutron distribution in neutrons-		

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B52 Estimation of beta-ray skin dose from exposure to fission fallout from the Hiroshima atomic bomb	S. Endo K. Tanaka K. Shizuma M. Hoshi T. Imanaka	Radiation Protection Dosimetry, doi:10.1093/rpd/ncr407 (2011) pp. 1-7
B53 ESR dosimetry study for the residents of Kazakhstan exposed to radioactive fallout on 24, August 1956	K. Zhumadilov A. Ivannikov D. Zharlyganova Zh. Zhumadilov V. Stepanenko Sh. Abralina L. Sadvokasova A. Zhumadilova S. Toyoda S. Endo T. Okamoto M. Hoshi	Radiat. Meas., 46 (2011) pp. 793-796
B54 A spectrometer for lifetime determination by β - γ - γ		

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B63 A User-friendly 3D Yield Function for Steel Sheets and Its Application	F. Yoshida S. Tamura T. Uemori H. Hamasaki	Proceedings of the 8th International Conference on Numerical Simulation of 3D Sheet Metal Forming Processes (NUMISHEET2011), (2011) pp. 807-814
B64 Springback analysis on U-bending with bottoming	T. Ogawa F. Yoshida	Proceedings of the 8th International Conference on Numerical Simulation of 3D Sheet Metal Forming Processes (NUMISHEET2011), (2011) pp. 1129-1136
B65 Viscoplastic behavior of highly ductile acrylic adhesive under cyclic torsion and its modeling	T. Tokuda Y. Yoshida M. Takiguchi M. Funai N. Mizutani F. Yoshida	Proceedings of the 8th International Conference on Technology of Plasticity, (2011) pp. 990-994
B66 Two-stage reliability based design optimization for tension leveling process	H. Hamasaki K. Gejima V. V. Toropov F. Yoshida	Proceedings of the 8th International Conference on Technology of Plasticity, (2011) pp. 309-314
B67 Forming limit of high strength steel sheets under non-proportional deformation	R. Hino A. Hirahara Y. Fujii F. Yoshida	Proceedings of the 8th International Conference on Technology of Plasticity, (2011) pp. 912-916
B68 Parameter Identification for Elastoplastic Constitutive Equation by means of Cyclic Bending Experiment and Optimization	Hiroshi Hamasaki Shuhei Nakamura Vassili V. Toropov Fusahito Yoshida	Proceedings of the 9th World Congress on Structural and Multidisciplinary Optimization, (2011)
B69 Optimum Draw-beads Design for Stepped-shape Beam Forming to Suppress Wrinkle and Torsional Springback	Shigeki Abe Ryutaro Hino Yuki Morishita Yasuhiro Sakamoto Hiroki Kondo Fusahito Yoshida	Proceedings of the 9th World Congress on Structural and Multidisciplinary Optimization, (2011)
B70 3-Dimensional Observation of Fatigue Crack Propagation on Spot Welded Joints using High Strength Steel	Ryota Tanegashima Hiroyuki Akebono Masahiko Kato Aki Miyagaki Atsushi Sugeta	International Journal of Automotive Engineering, 2 , 3 (2011) pp. 61-67
B71 The Influence of the Load Variation on Fatigue Strength of the Spot Welded Joint using the High Strength Steel	Ryota Tanegashima Hiroyuki Akebono Masahiko Kato Atsushi Sugeta	Procedia Engineering, 10 (2011) pp. 3413-3418
B72 Investigation of influence of white layer geometry on spalling property in railway wheel steel	Takanori Kato Atsushi Sugeta Eisuke Nakayama	Wear, 271 (2011) pp. 400-407
B73 The Influence of the Load Variation on Fatigue Strength of the Spot Welded Joints using the High Strength Steel	Ryota Tanegashima Hiroyuki Akebono Masahiko Kato Atsushi Sugeta	Proc. 11th ICM, (2011)
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C2 Interactive fuzzy random two-level linear programming through fractile criterion optimization	Masatoshi Sakawa Hideki Katagiri Takeshi Matsui	Mathematical and Computer Modelling, 54 , 11-12 (2011) pp. 3153-3163
C3 Interactive multiobjective fuzzy random programming through the level set-based probability model	Hideki Katagiri Masatoshi Sakawa	Informaton Sciences, 181 , 9 (2011) pp. 1641-1650
C4 Operation planning of urban district heating and cooling plants considering the continuousness of load and driving	Keiichi Ishimaru Masatoshi Sakawa Hideki Katagiri Takeshi Matsui	Scientiae Mathematicae Japonicae, 73 , 1 (2011) pp. 59-74
C5 A Combined Fuzzy Analytic Network Process and Fuzzy-TOPSIS Model for Project Risk Assessment	Ebrahim Rezaee Nik Seyed Hessameddin Ze- gordi Ahad Nazari Masatoshi Sakawa Fereydoon Honari Choo- bar	International Journal of Modeling and Optimization, 1 , 4 (2011) pp. 275-284
C6 An interactive satisficing method for multiobjective random fuzzy programming problems through the possibility-based probability model	Hideki Katagiri Masatoshi Sakawa Takeshi Matsui	Proceedings of 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011), (2011) pp. 1778-1782
C7 Interactive fuzzy programming through possibility measures and probability maximization for two-level linear programming problems involving fuzzy random variable coefficients	Masatoshi Sakawa Hideki Katagiri Takeshi Matsui	Proceedings of 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011), (2011) pp. 1830-1835
C8 A Dual Channel Defect Position Identification Method for Touch Panel Manufacturing Process	Hiroshi Hamori Masatoshi Sakawa Hideki Katagiri Takeshi Matsui	Proceedings of International Conference on Electronics Packaging (ICEP2011), (2011) pp. 732-736
C9 Interactive multiobjective random fuzzy programming problems through the possibility-based fractile model	Hideki Katagiri Masatoshi Sakawa Takeshi Matsui	Proceedings of The 2011 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2011), (2011) pp. 3144-3148
C10 Multiobjective evolutionary optimization of training and topology of recurrent neural networks for time-series prediction	Hideki Katagiri Ichiro Nishizaki Tomohiro Hayashida Takanori Kadoma	The Computer Journal, (2011)
C11 Maxima and Minima of Overall Survival Functions with Fixed Marginal Distributions and Transmission of Technology	Isao Higuchi Toshio Mikami	Communications in Statistics - Theory and Methods, 41 , 1 (2011) pp. 46-61
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C17 Design of a Self-Adjust Controller using Multiple Local Models for Nonlinear Systems	Shin-Ichi Imai Toru Yamamoto	Proc. of International Conference on Advanced Mechatronic Systems, (2011)
C18 Design and Experimental Evaluation of a Performance-Driven Adaptive Controller	Shin Wakitani Toru Yamamoto Takao Sato Nozomu Araki	Proc. of IFAC World Congress, (2011)
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C20 Design of Performance-Adaptive PID Controllers	Yoshihiro Ohnishi Toru Yamamoto Sirish L. Shah	Proc. of Int. Symp. on Advanced Control of Industrial Processes, (2011) pp. 331-336
C21 Design of a PID Tuner Based on Generalized Output Errors	Kayoko Hayashi Toru Yamamoto	Proc. of SICE Annual Conference, (2011) pp. 2614-2618
C22 Improvement of Detection Performance in DWT-Based Image Watermarking under Specified False Positive Probability	M. Nakamoto K. Sayama M. Muneyasu T. Harano S. Ohno	IEICE Trans. Fundamentals, E94-A , 2 (2011) pp. 661-670
C23 Closed-form approximation of linear phase IIR digital filters with guaranteed stability	M. Nakamoto S. Ohno	Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing, (2011) pp. 1645-1648
C24 Preamble based channel and CFO estimation for MIMO-OFDM Systems with null subcarriers	E. Manasseh S. Ohno M. Nakamoto	IEICE Transactions on Fundamentals, E94-A , 11 (2011) pp. 2271-2278
C25 Design of low PAPR preamble and pilot symbol for channel estimation in OFDM systems	E. Manasseh S. Ohno M. Nakamoto	International Journal of Innovative Computing, Information and Control, 7 , 1 (2011) pp. 39-50
C26 Preamble and pilot symbol design for channel estimation in OFDM systems with null subcarriers	S. Ohno E. Manasseh M. Nakamoto	EURASIP Journal on Wireless Communications and Networking, (2011) pp. 1-17
C27 How many known symbols are required for linear channel estimation in OFDM?	S. Ohno E. Manasseh M. Nakamoto	Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing, (2011) pp. 3580-3583
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C31 PCB assembly scheduling with alternative nozzle types for one component type	Shujuan Guo Katsuhiko Takahashi Katsumi Morikawa	Flexible Services and Manufacturing Journal, 23 , 3 (2011) pp. 316-345
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C37 Dual Sales Channel: Its Emergence, Current Advancement And Future Direction - A Review	Erwin Widodo Katsuhiko Takahashi Katsumi Morikawa I Nyoman Pujawan Budi Santosa	Proceedings of the 1st International Conference on Industrial Engineering and Service Science (IESS 2011), (2011) pp. 381-388
C38 Policy for adding a new worker with stochastic processing time to self-balancing production line	Daisuke Hirotani Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 12th Asia Pacific Industrial Engineering & Management Systems Conference (APIEMS 2011), (2011) pp. 809-814
C39 Adjusted-Stackelberg profit-sharing for coordinating dual sales channel	Erwin Widodo Katsuhiko Takahashi Katsumi Morikawa I Nyoman Pujawan Budi Santosa	Proceedings of the Asian Conference of Management Science & Applications (ACMSA2011), (2011)
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C41 Expected security cost-based FACTS device allocation using hybrid PSO	Rony Seto Wibowo Naoto Yorino Mehdi Eghbal Yoshifumi Zoka Yutaka Sasaki	IEEJ Trans. on Electrical and Electronic Engineering, 6 , 4 (2011) pp. 331-337
C42 Direct Computation of Critical Clearing Time for Transient Stability Analysis	Naoto Yorino Ardyono Priyadi Ridzuan Bin Abdul Mutalib Yutaka Sasaki Yoshifumi Zoka Hiroaki Sugihara	Proc. of the 17th Power Systems Computation Conference, (2011)
C43 A Study on the Unit Commitment Planning for a Small Isolated Power System with Intermittent Renewable Energy	Shinya Okada Koji Shima Habi Buddin Mohamad Hafiz Bin Yutaka Sasaki Yoshifumi Zoka Naoto Yorino	Proc. of the International Conference on Electrical Engineering, (2011)

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C45 System operation and planning issues in the Japanese Interconnected System in the aftermath of March 11 events	Naoto Yorino Hiroshi Okamoto	Proc. of the 11th International workshop on electric power control centers, (2011)
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C47 Noninvasive Biological Sensor System for Detection of Drunk Driving	Kohji Murata Etsunori Fujita Shigeyuki Kojima Shinitirou Maeda Yumi Ogura Tsutomu Kamei Toshio Tsuji Shigehiko Kaneko Masao Yoshizumi Nobutaka Suzuki	IEEE Transactions on Information Technology in BioMedicine, 15 , 1 (2011) pp. 19-25
C48 An artificial neural network approach for glomerular activity pattern prediction using the graph kernel method and the Gaussian mixture functions	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	Chemical Senses, 36 , 5 (2011) pp. 413-424
C49 Effects of ionizing radiation on pharyngeal pumping in <i>Caenorhabditis elegans</i>	Michiyo Suzuki Tetsuya Sakashita Yuya Hattori Toshio Tsuji Yasuhiko Kobayashi	18th International C. elegans Meeting, (2011) pp. 158-159
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C51 A CPG Synergy Model for Evaluation of Human Finger Tapping Movements	Keisuke Shima Yasuhiro Tamura Toshio Tsuji Akihiko Kandori Saburo Sakoda	Proceedings of the 33rd Annual International Conference of the IEEE EMBS, (2011) pp. 4443-4448
C52 A Motor-control Training Method for Smoothness and Timing of Voluntary Arm Movements in a Virtual Tennis Task	Yoshiyuki Tanaka Haruhito Inoue Toshio Tsuji Nobuaki Imamura	Proceedings of the 33rd Annual International Conference of the IEEE EMBS, (2011) pp. 1297-1300
C53 Robotic Rehabilitation System Using Human Hand Trajectory Generation Model in Virtual Curling Task	Yoshiyuki Tanaka Toru Sanemasa Toshio Tsuji Nobuaki Imamura	2011 IEEE/RSJ International Conference on Intelligent Robots and Systems, (2011) pp. 1717-1722
C54 On-Center/Off-Surround Neural Network Model For Olfactory Attention	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	3rd International Joint Conference on Computational Intelligence (IJCCI 2011) Proceedings, (2011) pp. 183-189
C55 Human-sized Anthropomorphic Robot Hand with Detachable Mechanism at the Wrist	Yuichi Kurita Yasuhiro Ono Atsutoshi Ikeda Tsukasa Ogasawara	Mechanism and Machine Theory, 46 , 1 (2011) pp. 53-66

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D6 A Graph Rewriting Approach for Converting Asynchronous ROMs into Synchronous Ones	Md. Nazrul Islam Mondal Koji Nakano Yasuaki Ito	IEICE TRANSACTIONS on Information and Systems, E94-D , 12 (2011) pp. 2378-2388
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D13 Adaptive Prefetching Scheme for Peer-to-Peer Video-on-Demand Systems with a Media Server	Ryusuke Uedera Satoshi Fujita	IEICE Trans. on Information and Systems, E94-D , 12 (2011) pp. 2362-2369
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D17 A Branch-and-Bound Algorithm for Solving the Multiprocessor Scheduling Problem with Improved Lower Bounding Techniques	Satoshi Fujita	IEEE Trans. Computers, 60 , 7 (2011) pp. 1006-1016
D18 A Two-Level Caching Protocol for Hierarchical Peer-to-Peer File Sharing Systems	Qiyang Wei TingTing Qin Satoshi Fujita	Journal of Convergence, 2 , 1 (2011) pp. 11-16
D19 Load Balancing Schemes for a Hierarchical Peer-to-Peer File Search System	Qi Cao Satoshi Fujita	International Journal of Grid and Utility Computing, 2 , 2 (2011) pp. 164-171
D20 Resource Assignment in Distributed Networks Under Cyclic Constraint	Satoshi Fujita	Proc. the 6th International Conference on Ubiquitous Information Technologies & Applications (6th CUTE), (2011) pp. 138-141
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D27 On Connected Domatic Partition of Regular Graphs	Satoshi Fujita	Proc. 14th Korea-Japan Joint Workshop on Algorithms and Computation (WAAC 2011), (2011) pp. 164-169
D28 A Two-Level Caching Protocol for Hierarchical Peer-to-Peer File Sharing Systems	Qiyang Wei Tingting Qin Satoshi Fujita	Proc. The 9th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA 2011), (2011) pp. 195-200
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D31 Asynchronous mobile robot gathering from symmetric configurations without global multiplicity detection	Sayaka Kamei Anissa Lamani Fukuhito Ooshita Sebastien Tixeuil	In Proceedings of the 18th International Colloquium on Structural Information and Communication Complexity (SIROCCO), (2011) pp. 150-161
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D33 Two Heuristic Algorithms for Minimizing Initial Markings of Timed Petri Nets	Satoru Ochiiwa Satoshi Taoka Toshimasa Watanabe	The 26th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), (2011) pp. 27-30
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D36 Some fully nonlinear elliptic boundary value problems with ellipsoidal free boundaries	Shigeru Sakaguchi Cristian Enache	Mathematische Nachrichten, 284 , 14,15 (2011) pp. 1872-1879
D37 Optimization problems on general classes of rearrangements	Shigeru Sakaguchi Fabrizio Cuccu Giovanni Porru	Nonlinear Analysis Theory, Methods Applications, 74 , 16 (2011) pp. 5554-5565
D38 GPU-based SoftAssign for Maximizing Image Utilization in Photomosaics	Marcos Slomp Michihiro Mikamo Bisser Raytchev Toru Tamaki Kazufumi Kaneda	International Journal of Networking and Computing, 1 , 2 (2011) pp. 211-229
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D40 POSE ESTIMATION BY LOCAL PROCRUSTES REGRESSION	Bisser Raytchev Kazuya Terakado Toru Tamaki Kazufumi Kaneda	The International Conference on Image Processing, (2011) pp. 3646-3649
D41 Realistic Image Synthesis Considering Spectral Distribution of Light	Kazufumi Kaneda	China-Japan Symposium on Visual Computing, (2011)
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D45 Diagnosable Concept Map toward Group Formation and Peer Help	Tsukasa Hirashima Kazuya Yamasaki Hiroyuki Fukuda Hideo Funaoi	Proc. of CSCL2011, (2011) pp. 880-881
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D48 Kit-Build External Expression of Problem Solving Process in Physics Learning	Tomoya Shinohara Sho Yamamoto Tsukasa Hirashima	Proc. of The 19th International Conference on Computers in Education, ICCE 2011, (2011) pp. 70-75
D49 Support for Concept Map Building based on Learner Building History	Youhei Mizuta Tsukasa Hirashima Hideo Funaoi	Proc. of The 19th International Conference on Computers in Education, ICCE 2011, (2011) pp. 76-80
D50 Development of Computer based Learning in School	Tsukasa Hirashima	Proc. of Seminar on Strengthening the ICT learning Resources for Increasing Learners' Learning, (2011)
D51 Comparison of Kit-Build and Scratch-Build Concept Mapping Methods on Memory Retention	Hideo Funaoi Kouhei Ishida Tsukasa Hirashima	Proc. of The 19th International Conference on Computers in Education, ICCE 2011, (2011) pp. 539-546
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D54 Simulating reversible Turing machines and cyclic tag systems by one-dimensional reversible cellular automata	Kenichi Morita	Theoretical Computer Science, 412 , 30 (2011) pp. 3856-3865
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D59 A Polynomial-Time Reduction from the SAT Problem to the Generalized One-Person Last-and-First Game	Chuzo Iwamoto Yusuke Sumida	Advances in Computer Science and Engineering, 6 , 2 (2011) pp. 105-114
D60 A Transferring Protocol with Local Information on an Ad-Hoc Sensor Network	Dansaku Nakayama Naoshi Sakamoto Katsunobu Imai	Proceedings of 2nd International Workshop on Advances in Networking and Computing (WANC), (2011) pp. 291-293
D61 On 1-resilient, radius 2 elementary CA rules	Enrico Formenti Katsunobu Imai Bruno Martin Jean-Baptiste Yunès	Proceedings of 17th International Workshop on Cellular Automata and Discrete Complex Systems (AUTOMATA 2011), (2011) pp. 41-54
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E14 Synthesis of Uniformly Porous NiO/ZrO ₂ Particles	R. Balgis F. Iskandar T. Ogi A. Purwanto K. Okuyama	Materials Research Bulletin, 46 , 5 (2011) pp. 708-715

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E26 Dewatering of inorganic sludge using ionic thermosensitive polymers	Shuji Sakohara Seiji Yagi Takashi Iizawa	Separation and Purification Technology, 80 (2011) pp. 148-154
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E43 Synthesis and characterization of microporous ZrO ₂ membranes for gas permeation at 200°C	C. Casado T. Yokoo T. Yoshioka T. Tsuru M. Asaeda	Sep. Sci. and Technol., 46 (2011) pp. 1224-1230

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E48 Investigation of Low-angle Laser Light Scattering Patterns Using the Modified Twomey Iterative Method for Particle Sizing	Tatsuo Igushi Hideto Yoshida	Review of Science Instruments, 82 (2011) pp. 015111
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E50 Theoretical Calculation of Uncertainty Region Based on the General Size Distribution in the Preparation of Standard Reference Particles for Particle Size Measurement	Hideto Yoshida Tetsuya Yamamoto Kunihiro Fukui	Particulate Systems Analysis, PSA-2011, (2011) pp. 1-6
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E54 Monitoring of C60 Aerosol Concentrations During 4-week Inhalation Study Using a Carbon Aerosol Analyzer with Adjusted Analytical Protocol	T. Myojo T. Oyabu A. Ogami M. Hirohashi M. Murakami M. Yamamoto M. Todoroki C. Kadoya K. Nishi S. Yamasaki Y. Morimoto I. Tanaka M. Shimada S. Endoh	Journal of Nanoparticle Research, 13 , 5 (2011) pp. 2063-2071
E55 Investigation of Gene Expression of MMP-2 and TIMP-2 mRNA in Rat Lung in Inhaled Nickel Oxide and Titanium Dioxide Nanoparticles	Y. Morimoto T. Oyabu A. Ogami T. Myojo E. Kuroda M. Hirohashi M. Shimada W. Lenggoro K. Okuyama I. Tanaka	Industrial Health, 49 , 3 (2011) pp. 344-352

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E59 Polyphenols and fatty acids responsible for anti-cyanobacterial allelopathic effects of a submerged macrophyte <i>Myriophyllum spicatum</i>	Satoshi Nakai Norihiko Seto Tetsuji Okuda Wataru Nishijima Masaaki Hosomi Mitsumasa Okada	14th World Lake Conference, (2011)
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E68 Mapping water quality using satellite remote sensing technique in eutrophic Ozama-Isabela and Haina rivers of Dominican Republic	Yuji Sakuno Esteban R. Mi Satoshi Nakai Hidemi Mutsuda Tetsuji Okuda Wataru Nishijima Rolando Castro Amarilis Garcia Rosanna Pe Marcos Rodriguez Conrado Depratt G	VII International Interdisciplinary Scientific Research Congress, 81 (2011)
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G16 Experimental Study on Remaining Strength Estimation of Corroded Wide Steel Plates under Tensile Force	Tatsumasa Kaita J.M.R.S. Appuhamy Kazuki Itogawa Mitao Ohga Katashi Fujii	Proc. of The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), 12 (2011)
G17 Analytical Study on Significance of Corroded Surface Measurement Intensity on Residual Strength Prediction	J.M.R.S. Appuhamy Tatsumasa Kaita Mitao Ohga Katashi Fujii	Proc. of The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), 12 (2011)
G18 An Evaluation Method for the Remaining Strength of a Plate Girder with Local Corrosion under Sleepers	Mitsuo Fukuda Katashi Fujii Taishi Nakayama Shigeyuki Matsui	Proc. of The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), 12 (2011)
G19 Improvement of Ductility of H-shaped Member Covered with Steel Tube	Yasunori Yamashita Katashi Fujii	Modern Methods and Advances in Structural Engineering and Construction (ISEC-6), 6 (2011) pp. 943-948
G20 A practical method to estimate strong ground motions after an earthquake based on site amplification and phase characteristics	Yoshiya Hata Atsushi Nozu Koji Ichii	Bulletin of the Seismological Society of America, 101 , 2 (2011) pp. 688-700
G21 An approach on the evaluation of the slope failure range due to earthquake	Yoshiya Hata Koji Ichii Kenichi Tokida	Proc. of the International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Semarang, Indonesia, (2011)
G22 Similarity Index of H/V Spectrum for Seismic Zoning of Highways	Koji ICHII Kentaro Tamori Susumu Shibao Yoshiya Hata	Proc. of the International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Semarang, Indonesia, (2011)
G23 Deformation Characteristics of Improved Ground by Sand Compaction Pile Method Using Iron and Steel Slag	Hiroki Kinoshita Koji ICHII Yasunori Takahashi Haruhiko Shinozaki	Proc. of the International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Semarang, Indonesia, (2011)
G24 Effect of Variation of the Determined Parameter on Numerical Analysis for Seismic Performance Evaluation	Takeko Mikami Koji Ichii Haruki Nishina Keisuke Kitade	Proc. of the International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Semarang, Indonesia, (2011)
G25 Interval of Analysis in the Damage Evaluation of Expressway Embankments	Yohei Murakami Koji Ichii Yoshihisa Maruyama Yoshiya Hata Yasuhiro Fukushima	10th 2011 International Conference on Civil and Environmental Engineering (ICCEE2011), (2011)
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G27 Experiment on the Applicability of SIFT-Based Image Analysis to Materials Used in Civil Engineering	Mitsunori Kadota Koji Ichii	10th 2011 International Conference on Civil and Environmental Engineering (ICCEE2011), (2011)
G28 Reproduction of microscopic structure of marine clays by cement addition	Yohei Imai Takashi Tsuchida Tsuyoshi Hiramoto	Proceedings of 14th Asian Regional Conference on Soil Mechanics and Foundation Engineering, (2011)
G29 Risk assessment of natural slopes by geotechnical data and rainfall analysis	Takashi Tsuchida Seiji Kano Masashi Kawaguchi	Proceedings of 14th Asian Regional Conference on Soil Mechanics and Foundation Engineering, (2011)

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G31 Ten year follow-up study of airfoam-treated lightweight soil	Yoichi Watabe H. Saegusa Hiroshi Shinsha Takashi Tsuchida	Ground Improvement, Proceedings of the Institution of Civil Engineers., 164 , G13 (2011) pp. 189-200
G32 Study on Landslide Risk Assessment of Valleys and Slopes during Heavy Rain Based on In-site Penetration Tests and Analysis	Shouichi Kawabata Takashi Tsuchida Shouta Nakagawa Takashi Hanaoka	10th 2011 International Conference on Civil and Environmental Engineering, ICCEE, (2011)
G33 Study on individual landslide risk assessment of natural valleys and slopes during heavy rain based on geotechnical investigation and analysis	Shouichi Kawabata Takashi Tsuchida Takashi Hanaoka Shouta Nakagawa	First International Conference on Geotechnique, Construction Materials and Environment GEO-MAT2011, (2011)
G34 Geotechnical investigation of valleys using lightweight dynamic cone penetration test for landslide risk assessment	Takashi Hanaoka Takashi Tsuchida Shoichi Kawabata Shota Nakagawa	First International Conference on Geotechnique, Construction Materials and Environment GEO-MAT2011, (2011)
G35 Lightweight Treated Soil Method for Seaport and Sea-side Airport Construction, from Research to Practice	Takashi Tsuchida	10th 2011 International Conference on Civil and Environmental Engineering, ICCEE, (2011)
G36 Enrichment and identification of methane-oxidizing bacteria by using down-flow hanging sponge bioreactors under low methane concentration	Masashi Hatamoto Yusuke Koshiyama Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Annals of Microbiology, 61 (2011) pp. 683-687
G37 Ecophysiology of uncultured filamentous anaerobes belonging to the phylum KSB3 that cause bulking in methanogenic granular sludge	Takeshi Yamada Kae Kikuchi Toshihiro Yamauchi Koji Shiraishi Tsukasa Ito Satoshi Okabe Akira Hiraishi Akiyoshi Ohashi Hideki Harada Yoichi Kamagata Kazunori Nakamura Yuji Sekiguchi	Applied and Environmental Microbiology, 77 , 6 (2011) pp. 2081-2087
G38 Enrichment using up-flow column reactors and community structure of marine anammox bacteria from coastal sediment	Tomonori Kindaichi Takanori Awata Katsuichiro Tanabe Yuji Suzuki Noriatsu Ozaki Akiyoshi Ohashi	Microbes and Environments, 26 , 1 (2011) pp. 67-73
G39 Enrichment of marine anammox bacteria in Hiroshima Bay sediments	Tomonori Kindaichi Takanori Awata Katsuichiro Tanabe Noriatsu Ozaki Akiyoshi Ohashi	Water Science & Technology, 63 , 5 (2011) pp. 965-970
G40 Dissolved methane oxidation and competition for oxygen in down-flow hanging sponge reactor for post-treatment of anaerobic wastewater treatment	Masashi Hatamoto Tomo Miyauchi Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Bioresource Technology, 102 (2011) pp. 10299-10304
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G42 A challenge to prompt nitrification in a trickling filter reactor treating a low-strength ammonia wastewater	Kenichi Abe Tomonori Kindaichi Noriatsu Ozaki Takashi Yamaguchi Akiyoshi Ohashi	The 4th IWA-ASPIRE Conference & Exhibition, 14-19-5 (2011)

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G50 Comparison of the equilibrium kinetics between Fe ²⁺ and various ferric species in river water and sewage effluents	Kento Hirota Noriatsu Ozaki Tomonori Kindaichi Akiyoshi Ohashi	International Conference on Civil and Environmental Engineering IC-CEE 2011, (2011) pp. 72-73
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I3 A Non-Interior implicit smoothing approach to complementarity problems for frictionless contacts	Yoshihiro Kanno Makoto Ohsaki	Comp. Meth. Appl. Mech. Engng., 200 (2011) pp. 1176-1185
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I6 Force identification of prestressed pin-jointed structures	Jingyao Zhang Makoto Ohsaki	Comp. & Struct., 89 (2011) pp. 2361-2368
I7 Multiobjective shape optimization of latticed shells for elastic stiffness and uniform member lengths	Makoto Ohsaki Shinnosuke Fujita	Proc. Int. Symposium on Algorithmic Design for Architecture and Urban Design (ALGODE TOKYO 2011), (2011)
I8 High-precision FE-analysis for seismic collapse simulation of steel building frames	Takuzo Yamashita Tomoshi Miyamura Makoto Ohsaki Masayoshi Kohiyama Daigoro Isobe Kunizo Onda Muneo Hori Jingyao Zhang Hiroshi Akiba Koichi Kajiwara	Proc. 3rd Int. Conf. on Computational Methods in Structural Dynamics and Earthquake Engineering, (2011)
I9 Optimization of energy dissipation property of eccentrically braced steel frames	Makoto Ohsaki Taku Nakajima	Proc. 9th World Congress of Structural and Multidisciplinary Optimization (WCSMO9), (2011)
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I13 E-simulator virtual shaking-table test: Comparative study on elastoplastic dynamic responses of super-highrise steel frame between virtual shaking-table test using E-simulator and beam element analysis	Masayoshi Kohiyama Tomoshi Miyamura Daigoro isobe Makoto Ohsaki Kunizo Onda Muneo Hori Hiroshi Akiba Koichi Kajiwara Tatsuhiko Ine	Proc. EuroSteel 2011, (2011)
I14 Finite element model of steel-concrete composite beam for high-precision seismic response analysis of four-story steel frame	Takuzo Yamashita Makoto Ohsaki Tomoshi Miyamura Masayoshi Kohiyama	Proc. Int. Symp. on Disaster Simulation & Structural Safety in the Next Generation (DS11), (2011)
I15 Form-finding methods for tensegrity structures: Our challenges	Jingyao Zhang Makoto Ohsaki	Structural Morphology Group International Seminar, (2011)
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I17 Stability of latticed shell with uniform-length hexagonal grid	Makoto Ohsaki Naoya Ashiya Shinya Matsumoto Shinnosuke Fujita	Proc. IABSE-IASS Symposium, (2011)
I18 Numerical examples of traditional timber building using frame analysis with semi-rigid spring elements	Shinya MATSUMOTO Yoshiyuki SUZUKI	International Symposium on Disaster Simulation & Structural Safety in the Next Generation 2011 (DS'11), (2011) pp. 89-92
I19 Large-scale FE analysis of steel building frames using E-Simulator	Tomoshi MIYAMURA Makoto OHSAKI Masayuki KOHIYAMA Daigoro ISOBE Kunihiko ONDA Hiroshi AKIBA Muneo HORI Koichi KAJIWARA Tatsuhiko INE	Progress in Nuclear Science and Technology, 2 (2011) pp. 651-656
I20 STRENGTH OF RC COLUMN WITH LOW STRENGTH CONCRETE AND PLAIN ROUND BARS	Hideo Araki Hayato Iki	Proceeding of fib Symposium, Prague, (2011)
I21 Strength of Masonry Walls Retrofitted with Epoxy Resin Injection	Hideo Araki Akira Yasojima Jun-ichi Kagawa	Proceedings of PROTECT2011 Workshop, (2011)
I22 A Study on the Preferable Urban Structure of Provincial Small Town in the Depopulation Age	Shimpei Iwamoto Takahiro Tanaka Daisaku Nishina	Proceedings of 10th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, (2011)
I23 Urban Environment Climate Maps (UECM)" for Supporting Urban Planning with Urban Climate": Trial for Mitigating Urban Heat Island in Shanghai, China	Kaoru Matsuo Takahiro Tanaka	Proceedings of 10th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, (2011)
I24 A Study on the Proper Land Use of the Hillside Urban Area in Depopulation Tendency -Evaluating the Future Scenarios from the View of Disaster Mitigation and Environment Conservation-	Iyo Yonemasu Takahiro Tanaka Daisaku Nishina	Proceedings of 10th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, (2011)
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I26 A Study on the Re-design of the Hillside Urban Area -Evaluating the Future Scenarios from the View of Disaster Risks and Environment-	Iyo Yonemasu Takahiro Tanaka Daisaku Nishina	Proceedings of UIA 2011 Tokyo, (2011)

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I28 Trials of Participatory Community Environmental Mapping in the Neighborhood	Takahiro Tanaka	The Record of the 7th Pacific Rim Community Design Network Conference, (2011) pp. 253-259
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J3 A 500 Mb/s Differential Input Non-coherent BPSK Receiver for UWB-IR Communication	M. Hafiz N. Sasaki T. Kikkawa	IEICE Transaction on Electronics, E94-C , 4 (2011) pp. 567-574
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J6 A 800 Mb/s CMOS detection scheme for UWB impulse-radio communication	M. Hafiz N. Sasaki T. Kikkawa	AEU - International Journal of Electronics and Communications, 65 , 5 (2011) pp. 398-405
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J8 Ionic Vibration Spectrum of Nanocrystalline MEL Pure Silica Zeolite Film	Y. Kayaba T. Sato Y. Seino T. Yamamoto T. Kikkawa	THE JOURNAL OF PHYSICAL CHEMISTRY, 115 , 23 (2011) pp. 11569-11574
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J11 A 2 Gb/s 1.8 pJ/bit Differential BPSK UWB-IR Transmitter using 65 nm CMOS Technology	M. Hafiz S. Kubota N. Sasaki K. Kimoto T. Kikkawa	IEICE Transactions on Electronics, 94-C , 6 (2011) pp. 977-984
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J27 Highly sensitive ion detection using Si single-electron transistors	Anri Nakajima	Applied Physics Letters, 98 , 12 (2011) pp. 123705-1-123705-3
J28 Alignment of In-plane Crystallographic Grain Orientations in Polycrystalline Si Films by Normal and Oblique-Angle Ion-Implantations	Anri Nakajima Shin-Ichiro Kuroki Shuntaro Fujii Takashi Ito	Extended Abstracts of the 2011 Int. Conf. on Solid State Devices and Materials, (2011) pp. 300-301
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J31 Analysis of Within-Die CMOS-Process Variation with Reconfigurable Ring-Oscillator Arrays using HiSIM Model	T. Ansari W. Imafuku A. Kawabata M. Yasuda T. Koide H. J. Mattausch	Jpn. J. Appl. Phys., Vol.50 , No.4 (2011) pp. Art. 04DE05
J32 Modeling of RESURF LDMOS for Accurate Prediction of Junction Condition on Device Characteristics	T. Saito A. Tanaka T. Hayashi H. Kikuchihara T. Kanamoto H. Masuda M. Miyake S. Amakawa H.J. Mattausch M. Miura-Mattausch	Jpn. J. Appl. Phys., Vol.50 , No.4 (2011) pp. Art. 04DP03
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J46 The Flexible Compact SOI-MOSFET Model HiSIM-SOI Valid for Any Structural Types	M. Miyake S. Kusu H. Kikuchihara A. Tanaka Y. Shintaku M. Ueno J. Nakashima U. Feldmann H.J. Mattausch M. Miura-Mattausch T. Yoshida	Proceedings of the IEEE International Conference on Simulation of Semiconductor Processes and Devices (SISPAD 2011), (2011)
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J48 Compact Multi-Bit Encoder for High Speed Frequency-Mapping Associative Memory	S. Sasaki M. Yasuda A. Kawabata T. Koide H.J. Mattausch	Extended Abstracts of the 2011 International Conference on Solid State Devices and Materials (SSDM 2011), (2011) pp. 1071-1072
J49 Compact Reaction-Diffusion Model for Accurate NBTI Prediction	C. Ma M. Miyake H.J. Mattausch K. Matsuzawa T. Iizuka T. Hoshida A. Kinoshita T. Arakawa J. He M. Miura-Mattausch	Extended Abstracts of the 2011 International Conference on Solid State Devices and Materials (SSDM 2011), (2011) pp. 877-878
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J51 Enhanced passive mixing in microfluidic droplet for the efficiency of a microbe counter	Yuto Takahata Katsuhito Aritome Ryo Miyake Yuji Murakami	Proceeding of ISMM 2011, (2011)
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J53 Magnetic beads manipulation for on-chip immunoassay	Tomohiro Ishikawa J. -S. Lee Ryo Miyake	Proceeding of ISMM 2011, (2011)
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J56 Integration and installation of on-site water quality monitoring network based on model-based design technique	Ryo Miyake Shugo Okabe Hidekazu Tsudome Yoshishige Endo Kazuma Mawatari Takehiko Kitamori	Proceeding of Transducers 2011, (2011) pp. 2390-2393
J57 Integration and installation of micro-fluidic devices	Ryo Miyake(invited)	Proceeding of ISMM 2011, (2011)
J58 Manipulation of dispersed magnetic beads for on-chip immunoassay	Tomohiro Ishikawa J. -S. Lee Ryo Miyake	Proceeding of SSDM 2011, (2011) pp. 1037-1038
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J60 Detection of organophosphorus compound based on a sol-gel silica planar waveguide doped with a green fluorescent protein and an organophosphorus hydrolase	Y. Enami K. Tsuchiya S. Suye	Applied Physics Letters, 98 , 23 (2011) pp. 233503
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J64 On-chip Immunoassay and Other Applications	Tomohiro Ishikawa	Proc. of International Workshop on Biomedical Sciences and Technologies, (2011)
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Apparatus for Evaluating Vascular Endothelial Function (US-2011-0066048-A1)	Toshio Tsuji Masao Yoshizumi Yukihito Higashi Masashi Kawamoto Hideo Ozawa Teiji Ukawa Tsuneo Takayanagi	2011.3.17
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