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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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A40 Development of a System that Evaluates Abutment Teeth for Dental Blood Clot	Takeshi Murayama Mana Kawakami Kozue Miyamoto Toru Eguchi Mitsuhiro Tamamoto	Proceedings of the 3rd International Symposium on Digital Manufacturing 2011, (2011) pp. 341-346
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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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 Asian-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 Asian-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	Tsubsa 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-gamma rays mixed field using imaging plate for NCT-Depression of the field	K. Tanaka S. Endo M. Hoshi J. Takada	Appl.Radiat.Isot., 69 (2011) pp. 1885-1887
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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
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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)
E60 Feasibility of using the allelopathic effect of <i>Myriophyllum spicatum</i> for control of cyanobacterial growth	Satoshi Nakai Norihiko Seto Tetsuji Okuda Wataru Nishijima Masaaki Hosomi Mitsumasa Okada	The 4th IWA-ASPIRE Conference & Exhibition, (2011)
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E63 PHOTODEGRADATION OF PERFLUOROOCTANOIC ACID USING Fe(II/III) IN COMBINATION WITH CHELATING AGENTS	Satoshi Nakai Esteban R. Mino Tomohiro Kose Tetsuji Okuda Wataru Nishijima Mitsumasa Okada	Proceedings of Dioxin 2011, (2011)
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E65 Use of waste gypsum for shear thickening of dredged soil by decarburization slag	Satoshi Nakai Masayuki Ozaki Tetsuji Okuda Wataru Nishijima Mitsumasa Okada	The 6th Joint China/Japan Chemical Engineering Symposium Open access (http://www.scej.org/content/view/1286/11/), (2011)
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E67 Responses of The Estuarine Tidal Flat Ecosystem Developed in The Mouth of Ohtagawa Flood Way to Salinity Changes by Flushing	Synkyu Fujita Yoichi Nakano Tetsuji Okuda Satoshi Nakai Tsuyoshi Imai Wataru Nishijima Mitsumasa Okada	Proceedings of the 20th Korea-Japan Joint Symposium on Water Environment, (2011) pp. 41-50
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E70 Effects of clean-air injection on particle-separation performance of novel cyclone with sintered metal cone	Kunihiro Fukui Hideto Yoshida Kenji Jikihara Tetsuya Yamamoto	Separation and Purification Technology, 80 , 2 (2011) pp. 356-363

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F64 Dye-sensitized solar cells based on new-type D- π -A fluorescent dyes with pyridine ring as electron-withdrawing anchoring group	Yousuke Ooyama S. Inoue T. Nagano K. Kushimoto J. Ohshita I. Imae K. Komaguchi Y. Harima	Angew. Chem., 50 (2011) pp. 7429-7433
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F80 Ethylbenzene dehydrogenation over Mg ₃ Fe _{0.5-x} CoxAl _{0.5} catalysts derived from hydrotalcites: Comparison with Mg ₃ Fe _{0.5-y} NiyAl _{0.5} catalysts	L.A. Atanda R.J. Balasamy A. Khurshid A.A. Al-Ali K. Sagata M. Asamoto H. Yahiro K. Nomura T. Sano K. Takehira S.S. Al-Khattaf	Appl. Catal. A, 396 (2011) pp. 107-115
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F85 Influence of structural differences and acidic properties of phosphotungstic acids on their catalytic performance for acylation of pyruvate ester to α -acyloxyacrylate ester	W. Ninomiya M. Sadakane Y. Ichi T. Yasukawa K. Ooyachi T. Sano W. Ueda	Catal. Today, 164 (2011) pp. 107-111
F86 Hydrothermal conversion of FAU zeolite into LEV zeolite in the presence of non-calcined seed crystals	A. Yashiki K. Honda A. Fujimoto S. Shibata Y. Ide M. Sadakane T. Sano	J. Cryst. Growth, 325 (2011) pp. 96-100
F87 Synthesis of high-silica CHA type zeolite by interzeolite conversion of FAU type zeolite in the presence of seed crystals	M. Itakura I. Goto A. Takahashi T. Fujitani Y. Ide M. Sadakane T. Sano	Microporous Mesoporous Mater., 144 (2011) pp. 91-96
F88 Incorporation of highly dispersed aluminum into inner surfaces of supermicroporous silica using anionic surfactant	S. Sumiya J. Fujiwara Y. Oumi M. Sadakane T. Sano	J. Porous Mater., 18 (2011) pp. 493-500
F89 Sunlight-induced efficient and selective photocatalytic benzene oxidation on TiO ₂ -supported gold nanoparticle under CO ₂ atmosphere	Y. Ide N. Nakamura H. Hattori R. Ogino M. Ogawa M. Sadakane T. Sano	Chem. Commun., 47 (2011) pp. 11531-11533

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F91 Thermal stability and acidic strength of Preyssler-type phosphotungstic acid, H14[P5W30O110Na] and its catalytic activity for hydrolysis of alkyl acetates	M. Sadakane Y. Ichi Y. Ide T. Sano	Z. Anorg. Allg. Chem., 637 (2011) pp. 2120-2124
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F97 Preparation and Formation Mechanism of Three-Dimensionally Ordered Macroporous (3DOM) MgO, MgSO ₄ , CaCO ₃ , and SrCO ₃ , and Photonic Stop Band Properties of 3DOM CaCO ₃ .	Masahiro Sadakane Rika Kato Toru Murayama Wataru Ueda	Journal of Solid State Chemistry, 184 (2011) pp. 2299-2305
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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
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H21 Large Eddy Simulation on the Unsteady Aerodynamics of a Heavy Duty Truck in Wind Gust	Makoto Tsubokura Prasanjit Das Tomofuyu Matsuuki Takuji Nakashima	Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference 2011 (AJK2011-FED), (2011)
H22 Simulation and Analysis of Effects of Dynamic Pitching for Idealized Sedan-Type Vehicle Models	Makoto Tsubokura Seeyuan Cheng Takuji Nakashima Yoshihiro Okada Takahide Nouzawa	Proceedings of SAE 2011 World Congress, SAE Paper no. 2011-01-0153, (2011)
H23 A Passive Pitch-Angle Control of Blades for the HAWT Using Fiber-Reinforced Rubber	Daisuke Yanagihara Hidetsugu Iwashita Yukio Watanabe	Journal of Environment and Engineering, 6 , 4 (2011) pp. 869-881
H24 Estimating the spatial distribution of pasture green biomass and quality by geostatistical analysis with field hyperspectral measurements	Hyo-Jin Lee Kensuke Kawamura Nariyasu Watanabe Seiichi Sakanoue Yuji Sakuno Shiro Itano Nobukazu Nakagoshi	Grassland Science, 57 , 3 (2011) pp. 142-149
H25 Evaluating spatio-seasonal patterns of river- and groundwater quality in the city of Jakarta, Indonesia, using a pollution index	Endan Suwandana Kensuke Kawamura Yuji Sakuno Prihatoma Raharjo	Journal of Japan Agricultural System Society, 27 , 3 (2011) pp. 91-102

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H27 Mapping herbage biomass and nitrogen status in an Italian ryegrass (<i>Lolium multiflorum</i> L.) field using a digital video camera with a balloon system	Kensuke Kawamura Yuji Sakuno Yoshikazu Tanaka Hyo-Jin Lee Jihyun Lim Yuzo Kurokawa Nariyasu Watanabe	Journal of Applied Remote Sensing, 5 (2011) pp. 18-25
H28 Initial study for the estimation of PM2.5 distribution in Hiroshima using GOSAT CAI data	Yuji Sakuno Hidemi Mutsuda Takaharu Miura	7th International Workshop on Greenhouse Gas Measurements for Space (IWGGMS7), (2011)
H29 Mapping water quality using satellite remote sensing technique in eutrophic Ozama-Isabela and Haina rivers of Dominican Republic	Yuji Sakuno Esteban R. Mino A. Satoshi Nakai Hidemi Mutsuda Tetsuji Okuda Wataru Nishijima Rolando Castro	VII International Interdisciplinary Scientific Research Congress, (2011)
H30 Monitoring of Water Quality of Ozama, Isabela and Haina rivers, Dominican Republic	Esteban R. Mino A. Yuji Sakuno 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, (2011)
H31 Cyanobacteria bloom mapping using satellite data in brackish Lake Shinji and Lake Nakaumi	Yuji Sakuno Hidenobu Kunii	Proceedings of 2011 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2011), (2011) pp. CD-R
H32 Field survey and satellite validation of water quality parameters of rivers in the surroundings of Santo Domingo Metropolitan area	Esteban R. Mino Yuji Sakuno Tetsuji Okuda Hidemi Mutsuda Satoshi Nakai Wataru Nishijima Marcos Rodriguez	9th International Conference on the Environmental Management of Enclosed Coastal Seas (EMECS 9), (2011) pp. CD-R
H33 A hand-held crop measuring device for assessing spatial variability of herbage biomass and LAI in an Italian ryegrass field	Jihyun Lim Kensuke Kawamura Hyo-Jin Lee Tomoki Tachikawa R. Yoshitoshi Yuji Sakuno Yuzo Kurokawa	The 32nd Asian Conference on Remote Sensing (ACRS), (2011) pp. CD-R
H34 Pollution Leading to the Caribbean Sea from rivers in the capital city of The Dominican Republic	Esteban R. Mino A. Yuji Sakuno Satoshi Nakai Hidemi Mutsuda Tetsuji Okuda Wataru Nishijima Rolando Castro	Proc. of International Sessions in Conference on Coastal Engineering, (2011)
H35 Reciprocal sound transmission measurement of mean current and temperature variations in the central part (Aki-nada) of the Seto Inland Sea, Japan	Yudi Adityawarman Arata Kaneko Koji Nakano Naokazu Taniguchi Katsuaki Komai Xinyu Guo Noriaki Gohda	Journal of Oceanography, 67 , 3 (2011) pp. 173-182

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H37 ACOUSTIC MEASUREMENT OF MEAN CURRENT AND TEMPERATURE VARIATION IN THE SETO INLAND SEA, JAPAN	Arata Kaneko Yudi Adityawarman Naokazu Taniguchi Noriaki Gohda	Proc. 4th International Conference on Underwater Acoustic Measurement, Kos , Greece (2011) pp. 385-392
H38 Inversion of internal wave parameter by acoustic transmission observation	Ju Lin Huan Wang Feng Zhu Arata Kaneko Xudong Liu	Proceedings of the 4th International Conference on Underwater Acoustic Measurement, Kos , Greece (2011) pp. 404-414
H39 Impact penetration simulation of steel target subjected to projectile by Eulerian mixture formulation	Shigenobu Okazawa	Joint International Workshop HPC for Natural Disaster Simulation and GPU Computing, Bangkok, Thailand, (2011) pp. 15
H40 A wavelet Galerkin method employing B-spline bases for solid mechanics problems without the use of a fictitious domain	Satoyuki Tanaka Hiroshi Okada Shigenobu Okazawa	Computational Mechanics, DOI: 10.1007/s00466-011-0671-9 (2011)
H41 Three-dimensional fracture mechanics analyses of surface cracks at welded joints in ship structure	S. Tanaka H. Okada S. Okazawa	Proceedings of 3rd International Conference on Marine Structures (MARSTRUCT 2011), (2011) pp. 335-340
H42 Hypervelocity Impact Penetration Analysis of Steel Plates	Shigenobu Okazawa Toru Hamasaki Satoyuki Tanaka	Proceedings of 16th International Conference on Finite Elements in Flow Problems (FEF 2011), (2011) pp. 305
H43 Collapse Analysis of Container Ship Model under Combined Torsion and Bending Applying Idealized Structural Unit Method	Pei, Z. Gao, C. Tanaka, Y. Tanaka, S. Okazawa, S. Iijima, K. Fujikubo, M. Yao, T.	The Proceedings of The 21 st (2011) International OFFSHORE AND POLAR ENGINEERING CONFERENCE & EXHIBITION, (2011) pp. 894-901
H44 Collapse Analysis of Double Bottom Structures Considering Shear, Lateral Pressure and Welding Residual Stresses	Gao, C. Pei, Z. Yasuoka, A. Tanaka, S. Okazawa, S. Iijima, K. Fujikubo, M. Yao, T.	The Proceedings of The 21 st (2011) International OFFSHORE AND POLAR ENGINEERING CONFERENCE & EXHIBITION, (2011) pp. 902-909
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H47 Influence of Number of Stiffeners on Collapse Behaviour and Ultimate Strength of Stiffened Plates subjected to Longitudinal Thrust	Aya Yasuoka Satoyuki Tanaka Shigenobu Okazawa Tetsuya Yao	Proceedings of the 25 th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures (TEAM 2011), (2011) pp. 158-165

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H51 Shape and Size Optimization of the Double Bottom Structure of Bulk Carrier at the Design Stage with Finite Element Analysis	Mitsuru Kitamura Tetsuya Uedera Kunihiro Hamada Akihiro Takezawa	The Proceedings of The Twenty-first (2011) International OFFSHORE AND POLAR ENGINEERING CONFERENCE, 4 (2011) pp. 839-844
H52 Application of Genetic Algorithm to Structural Design of 150KDWT Tanker Using PrimeShip-HULL Rule Calculation Software	Shinichi Hirakawa Mitsuru Kitamura Mitsue Maki	The Proceedings of The Twenty-first (2011) International OFFSHORE AND POLAR ENGINEERING CONFERENCE, 4 (2011) pp. 845-851
H53 Topology optimization for worst load conditions based on the eigenvalue analysis of an aggregated linear system	Akihiro Takezawa Satoru Nii Mitsuru Kitamura Nozomu Kogiso	Computer Methods Applied Mechanics in Engineering, 200 , 25-28 (2011) pp. 2268-2281
H54 A Structural Optimization Method Incorporating Level Set Boundary Expressions Based on the Concept of the Phase Field Method	Takayuki Yamada Shinji Nishiwaki Kazuhiro Izui Akihiro Takezawa	Journal of Environment and Engineering, 6 (2011) pp. 567-578
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H57 An experimental study of power generation and storage using a flexible piezoelectric device	Yoshikazu Tanaka Keitaro Matsumura Hidemi Mutsuda	Proceedings of 15th International Symposium on Applied Electromagnetics and Mechanics (ISEM2011), (2011) pp. 279-279
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H60 Optimization of Block Division considering Information Uncertainty	Varikkattu Karottu K. Hamada, K. Kitamura M.	Proceedings of the International Conference on Computer Applications in Shipbuilding 2011, III (2011) pp. 23-30
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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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I12 High-precision FE-analysis of steel frames: Collapse simulation considering composite beam effect	Makoto Ohsaki Tomoshi Miyamura Masayoshi Kohiyama Jingyao Zhang Daigoro Isobe Kunizo Onda Takuzo Yamashita Muneo Hori Hiroshi Akiba Koichi Kajiwara	Proc. EuroSteel 2011, (2011)

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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)
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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
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I20 STRENGTH OF RC COLUMN WITH LOW STRENGTH CONCRETE AND PLAIN ROUND BARS	Hideo Araki Hayato Iki	Proceeding of fib Symposium, Prague, (2011)
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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)
I25 Urban Environmental Climate Maps for Urban Planning and Design in Consideration of Urban Heat Island Mitigation: Case study in Yokohama	Takahiro Tanaka Satoru Sadohara Shusuke Inachi	Proceedings of UIA 2011 Tokyo, (2011) pp. 12-15
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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J2 Wireless inter-chip interconnects	T. Kikkawa	Microelectronic Engineering, 88 , 5 (2011) pp. 767-774
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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J5 Confocal Imaging System Using High-Speed Sampling Circuit and UWB Slot Antenna	A. Toya N. Sasaki S. Kubota T. Kikkawa	Japanese Journal of Applied Physics, 50 , 4 (2011) pp. 04DE02-1-04DE02-7
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
J7 A 1 Gb/s 3.8 pJ/bit differential input BPSK detection scheme for UWB-IR communication using 180 nm CMOS technology	M. Hafiz N. Sasaki T. Kikkawa	IEICE Transactions on Electronics, E94-C , 2 (2011) pp. 240-247
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
J9 Molecular Bonding Structure of Alkylene-Bridged Organosilicate Glass Films	Y. Kayaba F. Nishiyama Y. Seino T. Kikkawa	THE JOURNAL OF PHYSICAL CHEMISTRY, 115 , 26 (2011) pp. 12981-12989
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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
J12 A simple non-coherent solution to the UWB-IR communication	M. Hafiz N. Sasaki K. Kimoto T. Kikkawa	Proceedings of the 16th Asia and South Pacific Design Automation Conference, (2011) pp. 121-122
J13 A Novel 10 Gb/s Silicon On-chip UWB Twiggy Antenna for Intra-Package Communication	S. Kubota K. Kimoto N. Sasaki A. Toya T. Kikkawa	Proc. of 2011 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting, (2011) pp. 82-85

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J15 Electrical reliabilities of porous silica low-k films, " IEEE International Reliability Physics Symposium	T. Kikkawa Y. Kayaba K. Kohmura S. Chikaki	IEEE International Reliability Physics Symposium, (2011) pp. 2F.1.1-2F.1.4
J16 Strain Imaging of a Cu ₂ S Switching Device	K. Takata R. Tamura T. Kasama M. Fukuyama S. Yokoyama H. Kajiyama	Current Applied Physics, 11 , 6 (2011) pp. 1364-1367
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J18 Sensitivity Improvement of Biosensors Using Si Ring Optical Resonators	M. Fukuyama Y. Amemiya Y. Abe Y. Onishi A. Hirowatari K. Terao T. Ikeda A. Kuroda S. Yokoyama	Jpn. J. App. Phys., 50 , 4 (2011) pp. 04DL11-1-04DL11-5
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J20 A Study of Mach-Zehnder Interferometer Type Optical Modulator Applicable to an Accelerometer	M. Suzuki T. Takahashi S. Aoyagi Y. Amemiya M. Fukuyama S. Yokoyama	Jpn. J. App. Phys., 50 , 4 (2011) pp. 04DG14-1-04DG14-6
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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
J29 Prediction of Circuit-Performance Variations from Technology Variations for Reliable sub-100nm SOC Circuit Design	N. Sadachika S. Mimura A. Yumisaki K. Johguchi A. Kaya M. Miura-Mattausch H. J. Mattausch	IEICE Trans. on Electronics, Vol.E94-C , No.3 (2011) pp. 361-367
J30 An Associative Memory Based Learning Model with an Efficient Hardware Implementation in FPGA	A. Ahmadi H.J. Mattausch M. Saeidi M.A. Abedin T. Koide	Expert Systems with Applications, Elsevier, Vol.38 , No.4 (2011) pp. 3499-3513
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
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J33 An FPGA-implemented Associative-memory Based Online Learning Method	F. An H.J. Mattausch T. Koide	International Journal of Machine Learning and Computing, Vol.1 , No.1 (2011) pp. 36-42
J34 Quasi 2-Dimensional Compact Resistor Model for the Drift-Region in High-Voltage LDMOS Devices	A. Tanaka Y. Oritsuki H. Kikuchihara M. Miyake H.J. Mattausch M. Miura-Mattausch Y. Liu K. Green	IEEE Trans. on Electron Devices, 58 , No.7 (2011) pp. 2072-2080
J35 Software-Based Parallel Cryptographic Solution with Massive-Parallel Memory-Embedded SIMD Matrix Architecture for Data-Storage Systems	T. Kumaki T. Koide H.J. Mattausch M. Tagami M. Ishizaki	IEICE Trans. on Information & Systems, Vol. E94-D , No. 9 (2011) pp. 1742-1754

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