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Published Papers

A. Mechanical System Engineering

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A1 Cracking and local melting in Mg-alloy and Al-alloy during friction stir spot welding	M. Yamamoto K. Shinozaki A. Gerlich T.H. North	Welding in the World, 52 , 9/10 (2008)
A2 Selection of Welding Parameter during Friction Stir Spot Welding	A. Gerlich M. Yamamoto T. Shibayanagi T. H. North	SAE-2008-01-0146, (2008)
A3 Prediction of Hot Cracking Initiation during Dissimilar Laser Welding	Peng Wen Kenji Shinozaki Motomichi Yamamoto Yusuke Kouno Yasutaka Senda	2008 KWJS Asian Symposium : Trend of Welding Mechanics, (2008)
A4 Cracking in dissimilar Mg alloy friction stir spot welds	M. Yamamoto A. Gerlich T. H. North K. Shinozaki	Science Technology of Welding and Joining, 13 , 7 (2008) pp. 583-592
A5 Study of Solidification Cracking in Laser Dissimilar Welded Joint by using In-situ Observation and 3D FEM-Analysis	Peng Wen Motomichi Yamamoto Yasutaka Senda Tomoko Tamura Kenji Shinozaki Norio Nemoto	IIW-DOC-IX-H-697-08, (2008)
A6 Low-pressure infiltration of molten metal to porous FeCrSi preform	Y. B. Choi K. Matsugi G. Sasaki S. Kondoh	Materials Transactions, 49 , 2 (2008) pp. 390-392
A7 Aging behaviors in AZ91D/Al18B4O33w composite fabricated by squeeze casting	W.G. Wang K. C. Chang K. Matsugi G. Sasaki	Materials Transactions, 49 , 3 (2008) pp. 637-642
A8 Effects of aging treatment on the bending strength in AZ91D/ Al18B4O33w composite	W.G. Wang W. L. Li K. C. Chang K. Matsugi G. Sasaki	Materials Transactions, 49 , 4 (2008) pp. 850-853
A9 Melting and solidification of TiNi alloys by cold crucible levitation method, and evaluation of their characteristics	K. Matsugi H. Mamiya Y. B. Choi G. Sasaki O. Yanagisawa	International Journal of Cast Metals Research, 21 , 1-4 (2008) pp. 156-161
A10 Effect of fiber surface structure on interfacial reaction for vapor grow carbon fiber reinforced aluminum matrix composite	G. Sasaki K. C. Chang Y. B. Choi K. Matsugi	Proc. of US-Japan Conf. on Composite Materials 2008, (2008) pp. HTC-6-1-HTC-6-5
A11 Electrical resistivity of carbon nanofiber/aluminum matrix composites	Z. F. Xu Y. B. Choi K. Matsugi D. C. Li G. Sasaki	ICCHT2008-4th Int. Conf. on Cooling and Heating Technologies, (2008) pp. 311-317
A12 Investigation on infiltration of molten aluminum into a metal fiber preform	Y. B. Choi K. Matsugi G. Sasaki S. H. Park W. J. Park	16th Annual Int. Conf. on Composites /Nano Engineering, (2008)

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A13 Infiltration analysis of molten metal to fibrous preform by low pressure casting and experimental evaluation	Y. B. Choi G. Sasaki K. Matsugi N. Sorida	3rd Int. Conf. on Materials and Processing, (2008) pp. MSEC_ICM & P2008-72157-72162
A14 Effect of aging on microstructure of aluminum borate whisker reinforced AZ91D magnesium alloy composite	G. Sasaki K. Maruo Y. B. Choi K. Matsugi	3rd Int. Conf. on Materials and Processing, (2008) pp. MSEC_ICM & P2008-72413 - 72416
A15 Computer simulation of electron nanodiffraction from polycrystalline materials	Kenjiro Sugio Xiaoxu Huang	Proceedings of the 14th European Microscopy Congress, held in Aachen, Germany, 1-5 September 2008, (2008) pp. 227-228
A16 Prediction of Flow Behavior in the Heterogeneously Dispersed Al-10vol.%SiC Composites	Di Zhang Kenjiro Sugio Kazuyuki Sakai Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 49 , 3 (2008) pp. 671-680
A17 Effect of Volume Fraction on the Flow Behavior of Al-SiC Composites Considering the Spatial Distribution of Delaminated Particles	Di Zhang Kenjiro Sugio Kazuyuki Sakai Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 49 , 3 (2008) pp. 661-670
A18 EELS analysis of {1 1 1} Σ 3 and {1 1 2} Σ 3 twin boundaries and their junctions in phosphor-doped cast polycrystalline silicon	Isamu Kuchiwaki Kenjiro Sugio Osamu Yanagisawa Hiroshi Fukushima	Solar Energy Materials and Solar Cells, 92 , 1 (2008) pp. 71-75
A19 Nanostructure Based Materials Research by Positron Lifetime and High Resolution TEM Analyses	Hiroshi Fukushima Xu Zhefeng Isamu Kuchiwaki Yukihiro Kanechika Hiroyuki Oda Masanobu Azuma Yoshio Tanita Kenjiro Sugio Osamu Yanagisawa	Proceedings of the 17th Iketani Conference, (2008) pp. 152-156
A20 Independent Measurement of the Total Active ^8B solar Neutrino Flux Using an Array of ^3He Proportional Counters at the Sudbury Neutrino Observatory	B. Aharmim Ryuta Hazama et al.	Physical Review Letters, 101 (2008) pp. 111301-1-111301-5
A21 Dark matter search with CaF_2 scintillator at Osaka	I. Ogawa Ryuta Hazama K. Mukaida K. Kishimoto H. Sakai A. Katsuki T. Itamura S. Umehara S. Yoshida T. Kishimoto	Journal of Physics: Conference Series, 120 (2008) pp. 042019-042021
A22 PICO-LON Project for WIMPs search	K. Fushimi K. Yasuda Y. Kameda H. Ejiri Ryuta Hazama K. Ichihara K. Imagawa H. Ito N. Koori H. Nakamura S. Nakayama M. Nomachi T. Shima S. Umehara S. Yoshida	Journal of Physics: Conference Series, 120 (2008) pp. 042024-042026

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A23 Double beta decay experiments and ν -mass sensitivities	H. Ejiri K. Fushimi Ryuta Hazama H. Nakamura T. Shima	Journal of Physics: Conference Series, 120 (2008) pp. 052050-052052
A24 Study of Double Beta Decay of ^{48}Ca with CANDLES	Y. Hirano T. Kishimoto I. Ogawa Ryuta Hazama S. Umehara K. Matsuoka G. Ito Y. Tsubota	Journal of Physics: Conference Series, 120 (2008) pp. 052053-052055
A25 MOON for next-generation neutrino-less double-beta decay experiment	T. Shima P. J. Doe H. Ejiri S. R. Elliot J. Engel M. Finger M. Finger Jr. K. Fushimi V. M. Gehman M. B. Greenfield Ryuta Hazama et al.	Journal of Physics: Conference Series, 120 (2008) pp. 052055-052057
A26 Double beta decay of ^{48}Ca studied by $\text{CaF}_2(\text{Eu})$ scintillators	S. Umehara T. Kishimoto I. Ogawa Ryuta Hazama H. Miyawaki S. Yoshida K. Matsuoka K. Kishimoto A. Katsuki H. Sakai D. Yokoyama K. Mukaida S. Tomii Y. Tatewaki T. Kobayashi A. Yanagisawa	Journal of Physics: Conference Series, 120 (2008) pp. 052058-052060
A27 Study of Design for CANDLES Trigger System	G. Ito T. Kishimoto I. Ogawa S. Umehara Y. Hirano Y. Tsubota K. Matsuoka Ryuta Hazama	Journal of Physics: Conference Series, 120 (2008) pp. 052061-052062
A28 Neutrino-less double- β decay of ^{48}Ca studied by $\text{CaF}_2(\text{Eu})$ scintillators	S. Umehara T. Kishimoto I. Ogawa Ryuta Hazama H. Miyawaki S. Yoshida K. Matsuoka K. Kishimoto A. Katsuki H. Sakai D. Yokoyama K. Mukaida S. Tomii Y. Tatewaki T. Kobayashi A. Yanagisawa	Physical Review, C, 78 (2008) pp. 058501-1-058501-4

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A29 Online International Community and Alumni Database by Free Open Source Software	Ryuta Hazama Yasuhide Ito Zhenisbek Assylbekov	2008 JSEE Annual Conference International Session Proceedings, (2008) pp. 76-79
A30 Molecular dynamics simulation of metal coating on single-walled carbon nanotube	Shuhei Inoue Yukihiko Matsumura	Chemical Physics Letters, 464 (2008) pp. 160-165
A31 Effect of catalyst combination on growth of single-walled carbon nanotubes	Shuhei Inoue Yoshihiro Kikuchi Yukihiko Matsumura	Diamond & Related Materials, 17 (2008) pp. 1888-1890
A32 Mass Spectroscopy of Chemical Reaction of 3d Metal Clusters Involved in Chemical Vapor Deposition Synthesis of Carbon Nanotubes	Shuhei Inoue Shigeo Maruyama	Japanese Journal of Applied Physics, 47 , 4 (2008) pp. 1931-1936
A33 Molecular dynamics simulation of physical vapor deposition of metals onto a vertically aligned single-walled carbon nanotube surface	Shuhei Inoue Yukihiko Matsumura	Carbon, 46 (2008) pp. 2046-2052
A34 Molecular Dynamics Simulation for Metal Deposition Process on Vertically Aligned Single-walled Carbon Nanotubes Film	Shuhei Inoue Yukihiko Matsumura	Proc of 7th JSME-KSME Thermal and Fluid Engineering Conference, (2008)
A35 Elucidation of Catalytic Pyrolysis for Synthesizing Single-walled Carbon Nanotubes by Using Local Heating Process	Kazuma Yamada Shuhei Inoue Yukihiko Matsumura	Proc of 14th International Congress on Catalysis, (2008)
A36 Effects of Catalyst Supporters for Synthesizing single-walled Carbon Nanotubes in Catalytic Pyrolysis Process	Kazuya Nomura Shuhei Inoue Yoshihiro Kikuchi Yukihiko Matsumura	Proc of 14th International Congress on Catalysis, (2008)
A37 Behavior of 5-HMF in Subcritical and Supercritical Water	Athika Chuntanapum Tau Len-Kelly Yong Shigeru Miyake Yukihiko Matsumura	Ind. Eng. Chem. Res., 47 (2008) pp. 2956-2962
A38 Gasification of Catalyst-Suspended Chicken Manure in Supercritical Water	Akifumi Nakamura Eiji Kiyonaga Yukimasa Yamamura Yoshihisa Shimizu Tomoaki Minowa Yoji Noda Yukihiko Matsumura	J. Chem. Eng. Jpn., 41 , 5 (2008) pp. 433-440
A39 Detailed Analysis of Heat and Mass Balance for Supercritical Water Gasification	Akifumi Nakamura Eiji Kiyonaga Yukimasa Yamamura Yoshihisa Shimizu Tomoaki Minowa Yoji Noda Yukihiko Matsumura	J. Chem. Eng. Jpn., 41 , 8 (2008) pp. 817-828
A40 Behavior of inorganic elements in poultry manure during supercritical water gasification	Takashi Yanagida Tomoaki Minowa Akifumi Nakamura Yukihiko Matsumura Yuji Noda	J. Jpn. Inst. Energy, 87 , 9 (2008) pp. 731-736
A41 A novel method to determine the heat of reaction for supercritical water gasification	Yukihiko Matsumura Taichi Horimoto	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
A42 Reaction modeling on supercritical water gasification with suspended activated carbon catalyst	Yukihiko Matsumura Shotaro Hara Shuhei Inoue Tomoaki Minowa Yoji Noda Yoshihisa Shimizu	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)

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A43 Rheological behavior of chicken manure with suspended activated carbon as a feedstock of supercritical water gasification	Yukihiko Matsumura Yuji Kitagawa Shuhei Inoue Tomoaki Minowa Takashi Noguchi Yoji Noda Yoshihisa Shimizu	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
A44 Material recovery from solid and liquid residue of supercritical water gasification with chicken manure as by-product utilization	Takashi Yanagida Tomoaki Minowa Akifumi Nakamura Yukihiko Matsumura Yoji Noda	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
A45 Optimization of hydrothermal pretreatment of lignocellulosic materials for 2nd generation bioethanol production	Yukihiko Matsumura Daisuke Ikahisa Phacharakamol Petchpradab Koichi Yoshino Tawatchai Charinpanitkul	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
A46 Aspects important to Asian biomass utilization and activities of Asia Biomass Association	Yukihiko Matsumura	Proc. Int. Seminar on Rural Biomass Energy & ASEAN Plus Three (China, Japan and Korea) Forum on Biomass Energy, Jun. 18-21, Beijing, China, (2008) pp. 122-127
A47 Saccharification of rubber wood residue by hydrothermal pretreatment	Phacharakamol Petchpradab Tawatchai Charinpanitkul Nara Suankaew Yoshida Takuya Yukihiko Matsumura	Prep. International Symposium on Environmental Management: Hazardous Environmental Management toward Sustainability Sep. 22-23, 2008, Nakorn Nayok, Thailand., (2008) pp. 52
A48 Comparative Study on Contact Devices used in the Chemical Humidity Conditioning System	Risa Aikawa Yukihiko Matsumura Hiroyuki Kitahara	The 7th KSME-JSME Thermal and Fluids Engineering Conference, Oct. 13-16, 2008, Sapporo, Japan., (2008)
A49 Heat of Reaction of Methanol Oxidation in Supercritical Water	GoTsujiimoto Yukihiko Matsumura	Proc. 7th KSME-JSME Thermal and Fluids Engineering Conference, Oct. 13-16, 2008, Sapporo, Japan, (2008)
A50 Hydrothermal pretreatment of rubber wood for ethanol production	Yukihiko Matsumura Takuya Yoshida Minoru Nakashima Phacharakamol Petchpradab Tawatchai Charinpanitkul	AIChE 2008 100th Anniversary Meeting, Nov. 16-21, 2008, Pennsylvania, USA., (2008)
A51 Hydrothermal pretreatment of Eucalyptus globules	Yukihiko Matsumura Takuya Yoshida Minoru Nakashima	5th Biomass Asia Workshop, Dec. 4-6, 2008, Guangzhou, China, (2008)
A52 Hydrothermal Treatment of Biomass for Sustainable Development	Yukihiko Matsumura	International Conference on Environment 2008, Dec. 15-17, 2008, Penan, Malaysia, (2008)
A53 NO Reduction in Rapidly-Mixed Tubular Flame Combustion	Daisuke Shimokuri Satoru Ishizuka	Proceedings of the 7th JSME-KSME Thermal and Fluids Engineering Conference, JSME, 08-211 , GST10-3 (2008) pp. D213-1-D213-4
A54 Spray and Mixture Properties of Evaporating Fuel Spray Injected by Hole-Type Direct Injection Diesel Injector	Keiya Nishida Jian Gao Tetsuya Manabe Yuyin Zhang	International Journal of Engine Research, 9 , 4 (2008) pp. 347-360

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A55 An Experimental Study on Flat-Wall-Impinging Spray of Microhole Nozzles under Ultra-High Injection Pressures	Wu Zhang Keiya Nishida Jian Gao Daisuke Miura	Proceedings of Institute of Mechanical Engineers, Part D: Journal of Automobile Engineering, 222 , 9 (2008) pp. 1731-1741
A56 An Experimental Study on Mixture Formation Process of Flat Wall Impinging Spray Injected by Micro-Hole Nozzle under Ultra-High Injection Pressure	Wu Zhang Keiya Nishida Jian Gao Daisuke Miura	SAE Technical Paper, No.2008-01-1601 (2008) pp. 1-7
A57 Ignition and Combustion Characteristics of Wall-Impinging Sprays Injected by Group-Hole Nozzles for Direct-Injection Diesel Engines	Seoksu Moon Jian Gao Yuyin Zhang Keiya Nishida Yuhei Matsumoto	SAE Technical Paper, No.2008-01-2469 (2008) pp. 1-15
A58 Spray Evaporation and Combustion Characteristics of Group-Hole Nozzle for D.I. Diesel Engines	Yuhei Matsumoto Jian Gao Makoto Namba Keiya Nishida	Proceedings of the Seventh International Conference on Modeling and Diagnostics for Advanced Engine Systems, SC1-4 (2008) pp. 383-390
A59 Mixture Formation Process of Wall-Impinging Spray by D.I. Gasoline Injector (Comparison between Experiment and CFD Calculation)	Kiyotaka Sato Tadashi Tadokoro Hideaki Yokohata Masahisa Yamakawa Keiya Nishida	Proceedings of the Seventh International Conference on Modeling and Diagnostics for Advanced Engine Systems, SC3-3 (2008) pp. 437-444
A60 Effect of Temporal and Spatial Splitting of Fuel Injection on Mixture Formation in D.I. Diesel Spray	Keiya Nishida Yuhei Matsumoto Seoksu Moon Jian Gao	CD-ROM Proceedings of the 3rd International Symposium on Clean and High-Efficiency Combustion in Engines, ISCE 2008, (2008)
A61 Photoionized Xeon Cluster Plasmas Generated by a Soft X-ray Laser Pulse	S. Namba K. Takiyama N. Hasegawa M. Kishimoto M. Nishikino T. Kawachi K. Sukegawa H. Yamatani M. Tanaka Y. Ochi K. Nagashima	J. Phys. Conf. Series, 112 (2008) pp. 042057
A62 Characterization of out-of-band radiation and plasma parameters in laser-produced Sn plasmas for extreme ultraviolet lithography light sources	S. Namba S. Fujioka H. Sagaguchi H. Nishimura Y. Yasuda K. Nagai N. Miyanaga Y. Izawa K. Mima K. Sato K. Takiyama	J. Appl. Phys., 104 (2008) pp. 013305
A63 Effect of Disalignment due to Electron Collision on Laser-Induced Fluorescence Polarization Spectroscopy for Measuring Electric Field in Plasmas	S. Furukawa S. Namba K. Takiyama T. Oda	Jpn. J. Appl. Phys., 47 (2008) pp. 8570-8575

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A64 Absolute evaluation of out-of-band radiation from laser produced Sn plasma for extreme ultraviolet lithography application	H. Sagaguchi S. Fujioka S. Namba H. Tanuma H. Ohashi S. Suda M. Shimomura Y. Nagai Y. Kimura Y. Yasuda H. Nishimura T. Norimatsu K. Nishihara N. Miyanaga Y. Izawa K. Mima A. Sunahara	Appl. Phys. Lett., 92 (2008) pp. 111503
A65 A preliminary study on the use of ^{10}Be in forensic radioecology	N.E. Whitehead S. Endo K. Tanaka T. Takatsuji M. Hoshi S. Fukutani R.G. Ditchburn A.Zondervan	J. Environ. Radio. Act. , 99 (2008) pp. 260-270
A66 Iodine-129 measurement in soil samples from Dolon village near the Semi-palatinsk nuclear test site,	S. Endo J. Tomita K. Tanaka M. Yamamoto S. Fukutani T. Imanaka A. Sakaguchi H. Amano H. Kawamura H. Kawamura K. N. Apsalikov B. I. Gusev N. E. Whitehead S. Shinkarev M. Hoshi	Radiat. Environm. Biophys. , 47 (2008) pp. 359-365
A67 Gamma-ray exposure from neutron-induced radionuclides in soil in Hiroshima and Nagasaki based on DS02 calculations	T. Imanaka S. Endo K. Tanaka K. Shizuma	Radiat. Environm. Biophys. , 47 (2008) pp. 323-330
A68 Growth retardation and death of rice plants irradiated with carbon ion beams is preceded by very early dose- and time-dependent gene expression changes	R. Rakwal S. Kimura J. Shibato K. Nojima Yeon-Ki Kim B. H. Nahm Nam-Soo Jwa S. Endo K. Tanaka H. Iwahashi	Mol. Cells 25 (2), 272-278, 2008., 25 (2008) pp. 272-278
A69 Intercomparison study on ^{152}Eu gamma ray and ^{36}Cl AMS measurements for development of the new Hiroshima-Nagasaki atomic bomb dosimetry system 2002 (DS02)	M. Hoshi S. Endo K. Tanaka M. Ishikawa T. Straume K. Komura W. Ruehm E. Nolte T. Huber Y. Nagashima R. Seki K. Sasa K. Sueki H. Fukushima S. D. Egbert T. Imanaka	Radiat Environ Biophys. , 47 (2008) pp. 313-322

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A70 Skin dose from neutron-activated soil for early entrants following the A-bomb detonation in Hiroshima: contribution from β and γ rays	K. Tanaka S. Endo T. Imanaka K. Shizuma H. Hasai M. Hoshi	Radiat Environ Biophys. , 47 (2008) pp. 331-336
A71 Measurement of absorbed doses from X-ray baggage examinations to tooth enamel by means of ESR and glass dosimetry	K. Zhumadilov V. Stepanenko A. Ivannikov Z. Zhumadilov D. Zharlyganova S. Toyoda K. Tanaka S. Endo M. Hoshi	Radiat. Environ. Biophys. , 47 (2008) pp. 541-545
A72 Experimental derivation of relative biological effectiveness of A-bomb neutrons in Hiroshima and Nagasaki and implications for risk assessment	M. S. Sasaki T. Nomura Y. Ejima H. Utsumi S. Endo I. Saito T. Itoh M. Hoshi	Radiat. Res. , 170 (2008) pp. 101-117
A73 Spatial distribution of soil contamination by ^{137}Cs and $^{239,240}\text{Pu}$ in the village of Dolon near the Semipalatinsk nuclear test site: New information on traces of the radioactive plume from the 29 August 1949 nuclear test	M. Yamamoto J. Tomita A. Sakaguchi T. Imanaka S. Fukutani S. Endo K. Tanaka M. Hoshi B. I. Gusev A. N. Apsalikov	Health Phys. , 94 , 4 (2008) pp. 328-337
A74 Q_β measurements of $^{158,159}\text{Pm}$, $^{159,161}\text{Sm}$, $^{160-165}\text{Eu}$, ^{163}Gd and ^{166}Tb using a total absorption	H. Hayashi Y. Akita O. Suematsu M. Shibata M. Asai T.K. Sato S. Ichikawa I. Nishinaka Y. Nagame A. Osa K. Tsukada T. Ishii Y. Kojima A. Taniguchi	Eur. Phys. J. A, 34 (2008) pp. 363-370
A75 Search for isomeric transitions in fission products around mass number 150	Y. Kojima M. Shibata A. Taniguchi A. Murataka K. Ota K. Shizuma	Proc. Int. Conf. on Nuclear Data for Science and Technology 2007, (2008) pp. 115-118
A76 Q_β measurements of neutron-rich isotopes with a total absorption type Ge detector using the KUR-ISOL	H. Hayashi Y. Akita I. Miyazaki M. Shibata Y. Kojima A. Taniguchi	Proc. Int. Conf. on Nuclear Data for Science and Technology 2007, (2008) pp. 131-134

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A77 Volatile elements production rates in a proton-irradiated molten lead-bismuth target	Y. Tall S. Cormon M. Fallot Y. Foucher A. Guertin T. Kirchner L. Zanini M. Andersson K. Berg H. Franberg F. Groschel E. Manfrin W. Wagner M. Wohlmuther P. Everaerts U. Koester H. Ravn E. Noah Messomo C. Jost Y. Kojima	Proc. Int. Conf. on Nuclear Data for Science and Technology, (2008) pp. 1069-1072
A78 3-D FEM Stress Analysis and Strength of Adhesive-Rivets Combination Joints under Static and Impact In-plane Bending Moments	Ryo Nogaito Toshiyuki SAWA Atsushi KARAMI	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
A79 A Study on Evaluation of Impact Strength of Adhesive Joints Subjected to Impact Shear Loadings	Toshimasa NAGAI Toshiyuki SAWA Takeshi IWAMOTO Hideaki KURAMOTO	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
A80 A Three-Dimensional Finite Element stress Analysis of Plane-Woven CFRP Adhesive Laminated Plates and Hollow Cylinder under Out-of-plane Loading	Yukiya NOSHITA Toshiyuki SAWA Takeshi IWAMOTO	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
A81 The Effect of Clamping Force and Material Properties on the Tightness Performance a Flexible Box-shaped Flange Bolted Joint	Ryo Kurosawa Toshiyuki SAWA Yasuaki TATSUMI Satoshi NAGATA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A82 Stress Characteristics of Large Diameter Pipe Flange Connection with Non-asbestos Gasket under Elevated Temperature	Yoshio TAKAGI Toshiyuki SAWA Naoki KAWASAKI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A83 Mechanical Behavior of Rotational screw Thread Loosening in Bolted Joints under Repeated Temperature Changes	Toshiyuki SAWA Yusuke FUKUBA Mitsutoshi ISHIMURA Yasumasa SHOJI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A84 FEM Stress Analysis and Sealing Performance Evaluation in Pipe Flange Connections with Spiral Wound Gaskets subjected to External Bending Moments (Case Where Internal Fluid is Liquid)	Toshiyuki SAWA Takeshi IWAMOTO Kensuke FUNADA Yuya OMIYA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A85 Stress Analysis and Sealing Performance Evaluation of Pipe Flange Connection at Evaluated Temperature	Yoshio TAKAGI Hiroyasu TORII Toshiyuki SAWA Naoki KAWASAKI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A86 Effects of Temperature Change on Bolt Load and Gasket Load of Bolted Flange Connections	Satoshi NAGATA Toshiyuki SAWA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A87 Self-Loosening Mechanism of Nuts due to Impacts	Yasumasa SHOJI Toshiyuki SAWA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
A88 Stress analyses and strength estimations of some adhesive joints	Toshiyuki SAWA	Proc. The International Conference on Advanced Computational Engineering and Experimenting 2008, (2008)
A89 Two-dimensional stress analysis of adhesive joints subjected to cleavage loads	Masahiko AMAKURA Toshiyuki SAWA Takeshi IWAMOTO	Proc. The International Conference on Advanced Computational Engineering and Experimenting 2008, (2008)

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A91 A Numerical study of fibrous tissue formation type I collagen under mechanical stimuli by reaction & diffusion equations with motion of fibroblasts	Takeshi IWAMOTO Toshio TSUTA Toshiyuki SAWA	The Open Mechanics Journal, 2 (2008) pp. 47-56
A92 A Finite Element-based Level-set Method of an Interface Motion Driven by a Diffusion Field: Application to a Phase Transformation Problem	Takeshi IWAMOTO Mohammed Cherkaoui Esteban P. Busso	Computational Materials Science, 44, 2 (2008) pp. 792-801
A93 Dynamic Characteristics of Simple Cylindrical Hydraulic Engine Mount Utilizing Air Compressibility	Kzunari Nakahara Noritoshi Nakagawa Katsutoshi Ohta	Journal of System Design and Dynamics, 2, 5 (2008) pp. 1118-1136
A94 Eigenvalue Analysis for Structure of Centrifugal Fan	Takeo Fujii Ryuji Matsushita Noritoshi Nakagawa	Proc. of 15th International Congress on Sound and Vibration, (2008)
A95 Removal of Dust on Flat Board by Device of Focusing Ultrasonic Waves	Noritoshi Nakagawa Chaoqun Wu Yasuhisa Sekiguchi Yusuke Konishi	Proc. of the 9th International Congress on Motion and Vibration Control, (2008)
A96 Computational Simulation of Automotive Muffler Radiation Noise	Takashi Yasuda Noritoshi Nakagawa Chaoqun Wu Naoki Nakamura Masao Uchiyama	Proc. of 37th International Congress and Exposition on Noise Control Engineering (inter-noise 2008), (2008)
A97 Development of Damage Diagnosis on a Gear Tooth Surface by Using Laser Beam Reflection	Eiichirou Tanaka Kazuteru Nagamura Kiyotaka Ikejo Tatsuro Sugiyama Ryozo Nemoto	Proceeding of the International Conference on Noise and Vibration Engineering (ISMA2008), Leuven, Belgium, (2008)
A98 Autonomous Specialization in a Multi-Robot System based on Artificial Evolution	Toshiyuki Yasuda Tomoya Matsuda Yuichi Kawamatsu Yoshiyuki Matsumura Kazuhiro Ohkura	Proceedings of the 5th International Conference on Ubiquitous Robots and Ambient Intelligence, (2008) pp. 108-113
A99 Evolutionary Robotics Approach to Autonomous Task Allocation for a Multi-Robot System	Kazuhiro Ohkura Yoshiyuki Matsumura Toshiyuki Yasuda Tomoya Matsuda	Proceedings of Artificial Neural Networks in Engineering 2008, Intelligent Engineering Systems Through Artificial Neural Networks, 18 (2008) pp. 121-128
A100 Hybrid Optimization based on Fast Evolution Strategies and Particle Swarm Optimization", Proceedings of the 3rd International Conference on Bioinspired Optimization Methods and their Applications	Chunshi Feng Yoshiyuki Matsumura Takahiro Hamashima Kazuhiro Ohkura Shuang Cong	Proceedings of the 3rd International Conference on Bioinspired Optimization Methods and their Applications, (2008) pp. 29-39
A101 Application of Grid Task Scheduling Algorithm to Evolutionary Multi-robotics Problems	Yoshiyuki Matsumura Masaki Matsuda Masashi Oiso Kazuhiro Ohkura Noriyuki Fujimoto	Proceedings of World Automation Congress 2008, (2008)
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B101 Measuring Muscle Movements for Human Interfaces using a Flexible Piezoelectric Thin Film Sensor	Nan Bu Junpei Tsukamoto Naohiro Ueno Keisuke Shima Toshio Tsuji	Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, (2008) pp. 112-116
B102 Directional Properties of Human Hand Force Perception in the Maintenance of Arm Posture	Yoshiyuki Tanaka Toshio Tsuji	Neural Information Processing (14th International Conference, ICONIP 2007), (2008) pp. 933-942
B103 A Diagnosis Support System for Finger Tapping Movements Using Magnetic Sensors and Probabilistic Neural Networks	Keisuke Shima Toshio Tsuji Akihiko Kandori Masaru Yokoe Saburo Sakoda	ICBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), 23 (2008) pp. 682-686

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B105 A Novel Channel Selection Method Based on Partial KL Information Measure for EMG-based Motion Classification	Taro Shibanoki Keisuke Shima Toshio Tsuji Akira Otsuka Takaaki Chin	CBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), 23 (2008) pp. 694-698
B106 A Motion-based Evaluation System for Infant Movements Using Real-time Video Analysis	Yuko Osawa Keisuke Shima Nan Bu Tokuo Tsuji Toshio Tsuji Idaku Ishii Hiroshi Matsuda Kensuke Orito Tomoaki Ikeda Shunichi Noda	ICBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), 23 (2008) pp. 2043-2047
B107 EMG Pattern Classification using Hierarchical Network based on Boosting Approach	Masaru Okamoto Yukihiro Matsubara Keisuke Shima Toshio Tsuji	2008 International Symposium on Intelligent Informatics (ISHI2008), (2008)
B108 Neuro-based Pattern Classification Method for EMG Signals not Belonging to Predefined Classes	Masaru Okamoto Yukihiro Matsubara Nan Bu Toshio Tsuji	Proceedings of 11th International Conference on Human and Computers (HC-2008), (2008) pp. 163-168
B109 Development of a Training-Assist Robotic System Adapting to Individual Motor Abilities in Virtual Tennis Task	Masataka Ishii Yoshiyuki Tanaka Toshio Tsuji Nobuaki Imamura	Proceedings of the 4th International Workshop on Computational Intelligence and Applications 2008 (IW-CIA 2008), (2008) pp. 179-184
B110 Automatic Scratching Pattern Detection for Laboratory Mice Using High-Speed Video Images	Idaku Ishii Shogo Kurozumi Kensuke Orito Hiroshi Matsuda	IEEE Transactions on Automation Science and Engineering, 5 , 1 (2008) pp. 176-182
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C5 Optimized Component Labeling Algorithm for using in Medium Sized FPGAs	Yasuaki Ito Koji Nakano	Proc. of International Conference on Parallel and Distributed Computing, Applications and Technologies, (2008) pp. 171-176
C6 An Error Diffusion Based Algorithm for Hiding an Image in Distinct Two Images	Xia Zhuge Koji Nakano	Proc of Internatinal Conference on Computer Science and Software Engineering, (2008) pp. 684-687
C7 Processor, Assembler, and Compiler Design Education using an FPGA	Koji Nakano Yasuaki Ito	Proc. of International Conference on Parallel and Distributed Systems, (2008) pp. 723-728
C8 The Impact of Backup Routes on the Routing and Wavelength Assignment Problem	Simone Chagas Eber Cayo Koji Nakano Jacir Bordim	Proc. of Network Centric Ubiquitous Systems , (2008) pp. 519-523
C9 MAC Layer Misbehavior on Ad Hoc Networks	Nicole Nagel Ruzbeh Shokranian Jacir Bordim Koji Nakano	Proc. of Network Centric Ubiquitous Systems, 538 , 542 (2008)
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C19 Dynamic and Secure User Management in Networked Consumer Electronics	Tatsuya Tokunaga Satoshi Fujita	Proc. the 2008 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA 2008), 2 (2008) pp. 451-457
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C21 Vertex Domination in Dynamic Networks	Satoshi Fujita	Proc. Second International Workshop on Algorithms and Computation (WALCOM 2008), LNCS, 4921 (2008) pp. 1-12
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C23 A Self-Stabilizing Approximation for the Minimum Connected Dominating Set with Safe Convergence	Sayaka Kamei Hirotsugu Kakugawa	Proceedings of the 12th International Conference on Principles of Distributed Systems (OPODIS), (2008) pp. 496-511
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C34 Comparative study of path normalization for path prediction	Yuji Shinomura Tomotaka Harano Toru Tamaki Toshiyuki Amano Kazufumi Kaneda Seiichi Uchida	Proc. of FCV2008 ; the 14th Korea-Japan Joint Workshop on Frontiers of Computer Vision, (2008) pp. 284-289
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C37 An Experimental Use of Learning Environment for Problem-Posing as Sentence-Integration in Arithmetical Word Problems	Tsukasa Hirashima Takuro Yokoyama Masahiko Okamoto Akira Takeuchi	Proc. of ITS2008, (2008) pp. 687-689
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C42 Enhancement of the digital fortune line system for accelerating mutual examination of learners' conceptual ecologies	Etsuji Yamaguchi Hideo Funaoi Shigenori Inagaki Akiko Deguchi Naohisa Misawa Shinichi Kamiyama	Proceedings of International Conference on Computers in Education 2008, (2008) pp. 617-624
C43 Development and Evaluation of Concept Mapping Software for Supporting Reflection through Comparing with Other Learners' Thinking Process	Akiko Deguchi Hideo Funaoi Etsuji Yamaguchi Shigenori Inagaki	Proceedings of ED-MEDIA2008, (2008) pp. 4673-4678
C44 Teaching Method for Collaborative Note-taking Strategy to Improve Skill of Arranging Concepts	Takafumi Daikoku Hideo Funaoi Akiko Deguchi Shigenori Inagaki Etsuji Yamaguchi	Proceedings of ED-MEDIA2008, (2008) pp. 2557-2562
C45 A CSCL System for Emergent Division of Labor in Discovery Learning Activities	Hideo Funaoi Hideyuki Suzuki Yoshihiko Kubota Rintaro Hirasawa Hiroshi Kato	Proceedings of the Seventh IASTED International Conference on Web-Based Education, (2008) pp. 303-308

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C47 A Recursive Padding Technique on Nondeterministic Cellular Automata	Chuzo Iwamoto Harumasa Yoneda Kenichi Morita Katsunobu Imai	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, E91-A , 9 (2008) pp. 2335-2340
C48 Reversible computing and cellular automata - A survey	Kenichi Morita	Theoretical Computer Science, 395 , 1 (2008) pp. 101-131
C49 A 24-state universal one-dimensional reversible cellular automaton	Kenichi Morita	Proc. AUTOMATA 2008, Luniver Press, (2008) pp. 106-112
C50 Computing by swarm network	Teijiro Isokawa Ferdinand Peper Masahiko Mitsui Jian-Qin Liu Kenichi Morita Hiroshi Umeo Naotake Kamiura Nobuyuki Matsui	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, LNCS 5191 (2008) pp. 50-59
C51 An asynchronous cellular automaton implementing 2-state 2-input 2-output reversed-twin reversible elements	Jia Lee Ferdinand Peper Susumu Adachi Kenichi Morita	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, LNCS 5191 (2008) pp. 67-76
C52 A construction method of Moore neighborhood number-conserving cellular automata	Naonori Tanimoto Katsunobu Imai	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, LNCS 5191 (2008) pp. 244-251
C53 Simulations between triangular and hexagonal number-conserving cellular automata	Katsunobu Imai Bruno Martin	Proc. 3rd International Workshop on Natural Computing, IWNC 2008, Yokohama, (2008) pp. 16-26
C54 Calabi-Yau threefolds arising from fiber products of rational quasi-elliptic surfaces, II	Masayuki Hirokado Hiroyuki Ito Natsuo Saito	Manuscripta Math., 125 , 3 (2008) pp. 325-343
C55 Deformation of a singularity of type E8 and Mordell-Weil lattices in characteristic 2	Hiroyuki Ito	Math. Nachr., (2008)
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C62 Optimizing security measures in an intrusion tolerant database system	T. Uemura T. Dohi	Service Availability: 5th International Service Availability Symposium (ISAS 2008), Lecture Notes in Computer Science, 5017 (2008) pp. 26-42
C63 Analysis of a software system with rejuvenation, restoration and checkpointing	H. Okamura T. Dohi	Service Availability: 5th International Service Availability Symposium (ISAS 2008), Lecture Notes in Computer Science, 5017 (2008) pp. 110-128
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C85 Message sequence charts to specify the communicating threads for concurrent discrete wavelet transform based image compression and a verification analysis	Kamrul H Talukder Koichi Harada	Proc. SNPD2008, (2008) pp. 218-225
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C87 Multilinear face model	Ken Yano Koichi Harada	Proc. VIIP2008, (2008)
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C90 A computer-aided diagnosis system to screen for osteoporosis using dental panoramic radiographs	Takashi Nakamoto Akira Taguchi Masahiko Ohtsuka Yoshikazu Suei Mikio Tsuda Mitsuhiro Sanada Yoshiki Kudo Akira Asano Keiji Tanimoto	Dentomaxillofacial Radiology, 37 , 5 (2008) pp. 274-281
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C99 Algorithm for Computing Skyline ObjectSet on Numerical Databases	Md. Anisuzzaman Siddique Taufik Djatna Yasuhiko Morimoto	International Workshop on Data-Mining and Statistical Science, (2008) pp. 40-43

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D2 High Luminance YAG:Ce nanoparticles Fabricated from Urea Added Aqueous Precursor by Flame Process	A. Purwanto W.-N. Wang T. Ogi I. W. Lenggono E. Tanabe K. Okuyama	J. Alloys Compd, 463 (2008) pp. 350-357
D3 Investigation on the Correlation Between Droplet and Particle Size Distribution in Ultrasonic Spray Pyrolysis	W. N. Wnag A. Purwanto I. W. Lenggono K. Okuyama H. Chang H. D. Jang	Ind. Eng. Chem. Res., 47 , 5 (2008) pp. 1650-1659
D4 Preparation and Characterization of Nano-Pigment - Poly(Styrene-Co-n-Butyl Acrylate-Co-Methacrylic Acid) Composite Particles by High Speed Homogenization-Assisted Suspension Polymerization	H. Widiyandari F. Iskandar N. Hagura K. Okuyama	J. Appl. Polym. Sci., 108 , 2 (2008) pp. 1288-1297
D5 High Performance of GaN Thin Films Grown on Sapphire Substrates Coated with a Silica-Submicron-Sphere Monolayer Film	K. Ueda Y. Tsuchida N. Hagura F. Iskandar K. Okuyama Y. Endo	Appl. Phys. Lett., 92 , 10 (2008) pp. 101101
D6 Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning	M. M. Munir F. Iskandar K. M. Yun K. Okuyama M. Abdullah	Nanotechnology, 19 (2008) pp. 145603
D7 Beads Mill-Assisted Synthesis of Poly Methyl Methacrylate (PMMA)-TiO ₂ Nanoparticle Composites	M. Inkyo Y. Tokunaga T. Tahara T. Iwaki F. Iskandar C. J. Hogan K. Okuyama	Ind. Eng. Chem. Res., 47 (2008) pp. 2597-2604
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D9 Rapid Synthesis of Non-aggregated Fine Chlorapatite Blue Phosphors with High Quantum Efficiency	W.-N. Wnag F. Iskandar K. Okuyama Y. Shinomiya	Adv. Mater., 20 , 18 (2008) pp. 3422-3426
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D13 Photoluminescence Properties of Sub-micrometer Phosphors with Different Particle/Crystallite Sizes	T. Minami W.-N. Wang F. Iskandar K. Okuyama	Jpn. J. Appl. Phys., 47 , 9 (2008) pp. 7220-7223
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E140 Analysis on cold and hot water usage of students in each dwelling 50	Akiko Takaaze Saburo Murakawa Hiroshi Takata	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 50-57
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F2 Single bacterial cell detection using a mutant luciferase	Kenichi Noda Tadahiro Matsuno Hiroya Fujii Tomonari Kogure Masaaki Urata Yasuo Asami Akio Kuroda	Biotechnology Letters 30, (2008) pp. 1051-1054
F3 Continuous-flow ATP amplification system for increasing the sensitivity of quantitative bioluminescence assay	Tetsuya Satoh Yasuharu Shinoda Maxym Alexandrov Akio Kuroda Yuji Murakami	Analytical Biochemistry, 379 (2008) pp. 116-120
F4 On-Chip ATP Amplification	Yuji Murakami Yasuharu Shinoda Tetsuya Satoh Kenichi Noda Akio Kuroda	Micro Total Analysis Systems 2008, (2008) pp. 1275-1277
F5 Stress from Discontinuous SiN Liner for Fully Silicided Gate Process	T. Yamashita Y. Nishida T. Okagaki Y. Miyagawa J. Yugami H. Oda Y. Inoue K. shibahara	Jpn.J.App.Phys., 47 , 4B (2008) pp. 2569-2574
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F12 Conduction path fluctuation in Si two-dimensional tunnel junction array	Koki Matsushita Anri Nakajima	the 2008 International Micropro- cesses and Nanotechnology Confer- ence (MNC 2008)(Fukuoka, Octo- ber 27-30), (2008) pp. 122-123

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Registered Patents

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