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Published Papers

A. Mechanical System Engineering

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A1 Influence of fiber surface structure on interfacial structure between fiber and matrix in vapor grown carbon fiber reinforced aluminum matrix composite	K. C. Chang Z. F. Xu K. Matsugi G. Sasaki	Materials Transactions, 50 , 6 (2009) pp. 1510-1518
A2 Fabrication and electrical conductivity of vapor grown carbon fiber reinforced aluminum composites	Z. F. Xu Y. B. Choi K. Matsugi D.C. Li G. Sasaki	Materials Transactions, 50 , 9 (2009) pp. 2160-2164
A3 Densification of aluminum matrix composites by low-pressure infiltration method	G. Sasaki Y. B. Choi K. Matsugi	Proc. of 7th Japan-Korea Joint Symp. on Composite Materials, (2009) pp. 199-200
A4 Development of FeCrSi Fiber/ Aluminum Alloy Composites Fabricated by Gravity Casting	Sasaki Gen Choi Yongbum Matsugi Kazuhiro Yanagisawa Osamu	CD-ROM Proc. of ICCM-17, (2009)
A5 Effects of Infiltration Conditions on Mechanical Properties of A1203 Fiber Reinforced Aluminum Alloy Composites by Pressure Casting	Nobuyuki Fuyama Akira Terayama Toshio Fujii Tatsumi Hagiwara Yuki Omura Gen Sasaki	17th international Federation for Heat Treatment and Surface Engineering Congress 2008, (2009) pp. 353-356
A6 Tand thickness Tensile Properties of NITE SiC/SiC Composite Irradiated at High Temperature	Yong Bum Choi Tatsuya Hinoki Kazumi Ozawa Yutai Katoh	14th International Conference on Fusion Reactor Materials, (2009)
A7 Irradiation effect on tensile properties of NITE-SiC/SoC composites	Tatsuya hinoki Kazumi Ozawa Yongbum Choi Yutai Katoh Akira Kohyama	14th International Conference on Fusion Reactor Materials, (2009)
A8 Properites of advanced SiC fiber composites irradiated at high temperatures: results from US/Japan HFIR-18J experiment	Yutai Katoh Tatsuya Hinoki Kazumi Ozawa Yongbum Choi Akira Hasegawa Lance L. Snead	14th International Conference on Fusion Reactor Materials, (2009)
A9 Optimum sintering conditions for optical properties of translucent aluminum nitride ceramics	Yukihiro Kanechika Masanobu Azuma Hiroshi Fukushima	Chinese Science Bulletin, 54 , 5 (2009) pp. 842-845
A10 Ultra-violet wavelength shift for undoped CaF ₂ scintillation detector by two phase of liquid scintillator system in CANDELS	S. Yoshida T. Kishimoto I. Ogawa Ryuta Hazama S. Umehara K. Matsuoka D. Yokoyama K. Ichihara Y. Tatewaki	Nuclear Instruments and Methods in Physics Research A, 601 (2009) pp. 282-293
A11 Environmental Assessment of Natural Radioactivity in Soil Samples from the LUSI Mud Volcano, Indonesia	Ryuta Hazama K. Shizuma	Environment Asia, 2 (2009) pp. 45-49
A12 Measurement of the cosmic ray and neutrino-induced muon flux at the Sudbury neutrino observatory	B. Aharmim Ryuta Hazama et al.	Physical Review, D , 80 (2009) pp. 012001-1-012001-15

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A13 The MAJORANA Demonstrator: An R&D project towards a tonne-scale germanium neutrinoless double-beta decay search	C. E. Aalseth Ryuta Hazama et al.	AIP Conference Proceedings, 1182 (2009) pp. 88-91
A14 Environmental Radiation in East Asia: Assessment of Natural Radioactivity in Soil Samples from the LUSI Mud Volcano, Indonesia	Ryuta Hazama K. Shizuma K. Carattini	Proc. 10th Workshop on Environmental Radioactivity, Mar. 3-5, KEK, Japan, KEK-Proc., 2009-8 (2009) pp. 131-138
A15 Remove of Tritium from Tritiated Water and Isotope Separation by Microchips	Ryuta Hazama Y. Sakuma Y. Ogata M. Tokeshi	Annual Report of National Institute for Fusion Science, Oct., (2009) pp. 456
A16 Environmental Radiation in East Asia by in-situ gamma spectrometry and Radiological aspects of the usability of the LUSI mud as building material revisited	Ryuta Hazama K. Shizuma K. Carattini H. R. Santosa V. T. Noerwasito	Int. Conf. Sustainable Infrastructure and Built Environment in Developing Countries, Nov. 2-3, Bandung, Indonesia, (2009) pp. 114-120
A17 Radiological aspects of the usability of the LUSI mud as building material revisited	Ryuta Hazama K. Shizuma K. Carattini H. R. Santosa V. T. Noerwasito	Proc. Int. Symp. Engineering, Energy and Environment, Nov. 26-27, Rayong, Thailand, (2009) pp. 521-528
A18 Hydrothermal pretreatment of rubber wood for saccharification process	Phacharakamol Petch-pradab Takuya Yoshida Tawatchai Charinpanitkul Yukihiko Matsumura	Ind. Eng. Chem. Res., 48 , 9 (2009) pp. 4587-4591
A19 Recovery of activated carbon catalyst, calcium, nitrogen and phosphate from effluent following supercritical water gasification of poultry manure	Takashi Yanagida Tomoaki Minowa Yoshihisa Shimizu Yukihiko Matsumura Yoji Noda	Bioresource Technol., 100 , 20 (2009) pp. 4884-4886
A20 Reactor Development for Supercritical Water Gasification of 4.9 wt% Glucose Solution at 673 K by Using Computational Fluid Dynamics	Takuya Yoshida Yukihiko Matsumura	Ind. Eng. Chem. Res., 48 , 18 (2009) pp. 8381-8386
A21 Formation of tarry material from 5-HMF in subcritical and supercritical water	Athika Chantanapum Yukihiko Matsumura	Ind. Eng. Chem. Res., 48 (2009) pp. 9837-9846
A22 Experiments on a Gas Gun for Target Injection in Inertial Fusion Energy	Soichiro Sakae Hiroyuki Hayashi Tomoaki Kitabatake Takuya Matsumura Takuma Endo Takayoshi Norimatsu	Plasma and Fusion Research: Rapid Communications, 4 , Special Issue 1 (2009) pp. S1006-1-S1006-3
A23 Thrust Measurement of a Multicycle Partially Filled Pulse Detonation Rocket Engine	Jiro Kasahara Masao Hirano Akiko Matsuo Yu Daimon Takuma Endo	Journal of Propulsion and Power, 25 , 6 (2009) pp. 1281-1290
A24 Experiments on Structure of Laser-Driven Detonations	Takuma Endo Naohito Suwa Tomohisa Honda Shiro Taki Hiroyuki Shiraga Keisuke Shigemori Mayuko Koga	Proceedings of the 22nd International Colloquium on the Dynamics of Explosions and Reactive Systems, (2009)
A25 Propulsion Application of Pulse Detonation Technology	Takuma Endo	Proceedings of the 6th Asian-Pacific Conference on Aerospace Technology and Science, (2009)

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A26 High-Frequency Operation of Pulse Detonation Combustor in Valveless Mode	Akihiko Fujii Tomoya Akitomo Tetsuya Okamoto Akio Susa Takuma Endo Shiro Taki	Proceedings of the 6th Asian-Pacific Conference on Aerospace Technology and Science, (2009)
A27 Experiments on Detonation Initiation and Propagation in Extremely Thin Channels	Masashi Shimizu Shunsuke Hasegawa Soichiro Sakae Koichi Kaneshige Akio Susa Takuma Endo Shiro Taki	Proceedings of the 6th Asian-Pacific Conference on Aerospace Technology and Science, (2009)
A28 Effects of stretch and pressure on the characteristics of premixed swirling tubular methane-air flames	Yuyin Zhang Satoru Ishizuka Huayang Zhu Robert J. Kee	Proceedings of the Combustion Institute, 32 (2009) pp. 1149-1156
A29 Hydrogen addition effect on laminar burning velocity, flame temperature and flame stability of a planar and curved CH ₄ -H ₂ -air premixed flame	Yuyin Zhang Jianghong Wu Satoru Ishizuka	International Journal of Hydrogen Energy, 34 (2009) pp. 519-527
A30 Flowfield and combustion characteristic of a self-recirculation type low NO _x burner	Kenichi Shinomori Kousuke Katou Koui Hou Daisuke Shimokuri Satoru Ishizuka	Proceedings of the Seventh Asia-Pacific Conference on Combustion, (2009) pp. 119
A31 A computational study on laminar burning velocity, flame temperature and flame stability of hydrogen enriched natural gas	Yuyin Zhang Satoru Ishizuka	Proceedings of the Seventh Asia-Pacific Conference on Combustion, (2009) pp. 241
A32 Effect of swirl intensity on rapidly mixed tubular flame established in a 2-invch tubular flame burner	Daisuke Shimokuri Yoshiro Eto Satoru Ishizuka	Proceedings of the Seventh Asia-Pacific Conference on Combustion, (2009) pp. 267
A33 Flame Structure of Wall-Impinging Diesel Fuel Sprays Injected by Group-Hole Nozzles	Jian Gao Seoksu Moon Yuyin Zhang Keiya Nishida Yuhei Matsumoto	Combustion and Flame, 156 , 6 (2009) pp. 1263-1277
A34 An Experimental and Numerical Study on Sprays Injected from Two-Hole Nozzles for DISI Engines	Keiya Nishida Jiangping Tian Yasuki Sumoto Wuqiang Long Kiyotaka Sato Masahisa Yamakawa	Fuel, 88 (2009) pp. 1634-1642
A35 An Investigation of Mixture Formation and In-Cylinder Combustion Processes in Direct Injection Diesel Engines Using Group-Hole Nozzles	Jiang Gao Yuhei Matsumoto Makoto Namba Keiya Nishida	International Journal of Engine Research, 10 , 1 (2009) pp. 27-44
A36 Characteristics of Evaporating Diesel Spray: A Comparison of Laser Measurements and Empirical/Theoretical Predictions	Jiang Gao Keiya Nishida Seoksu Moon Yuhei Matsumoto	SAE International Journal of Engines, 2 , 1 (2009) pp. 805-818
A37 Experimental Study on Spray and Mixture Properties of the Goup-Hole Nozzle for Direct-Injection Diesel Engines, PartI: A Comparative Analysis with the Single-Hole Nozzle	Jian Gao Yuhei Matsumoto Keiya Nishida	Atomization and Sprays, 19 , 4 (2009) pp. 321-337
A38 Experimental Study on Spray and Mixture Properties of the Goup-Hole Nozzle for Direct-Injection Diesel Engines, PartII: Effects of Included Angle and Interval between Orifices	Keiya Nishida Jian Gao Yuhei Matsumoto	Atomization and Sprays, 19 , 4 (2009) pp. 339-355

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A39 Gas Entrainment Characteristics of Diesel Spray During End of Injection Transient	Seoksu Moon Keiya Nishida Yuhei Matsumoto Jeekuen Lee	Atomization and Sprays, 19 , 11 (2009) pp. 1013-1029
A40 Entrainment, Evaporation and Mixing Characteristics of Diesel Sprays around End-of-Injection	Seoksu Moon Yuhei Matsumoto Keiya Nishida	SAE Technical Paper, 2009-01-0894 (2009) pp. 1-20
A41 Optimization of Orifices Arrangement for the Maximized Spray Tip Penetration of Wall-Impinging Sprays Injected by Group-Hole Nozzles	Seoksu Moon Yuhei Matsumoto Jian Gao Keiya Nishida	CD-ROM Proceedings of the 11th International Conference on Liquid Atomization and Spray Systems, ICCLASS 2009, (2009) pp. 1-8
A42 Spray-Spray and Spray-Wall Interactions in Diesel Sprays from Micro-Hole Nozzles under Ultra-High Injection Pressures	Zhang Wu Keiya Nishida Jiangping Tian	CD-ROM Proceedings of the 11th International Conference on Liquid Atomization and Spray Systems, ICCLASS 2009, (2009) pp. 1-8
A43 Effect of Injection Pressure on Spray Flame Characteristics of Bio-Diesel Fuel Injected by Common Rail INjection System	Xiangang Wang Olawole Abiola Kuti Wu Zhang Keiya Nishida Zuohua Hunag	Proceedings of the 13th Annual Conference on Liquid Atomization and Spray Systems - Asia, ILASS-Asia 2009, (2009) pp. 145-154
A44 Effect of Split Injection on Combustion and Emission Characteristics of D.I. Diesel Engine	Sadahiro Akiba Keiya Nishida Xinyun Zi	Proceedings of 8th International Symposium on Maritime Engineering, ISME Busan 2009, (2009) pp. 1-6
A45 An Experimental Study on Sprays Injected from 2-Hole Nozzles	Jiangping Tian Wuqiang Long Yasuki Sumoto Keiya Nishida Kiyotaka Sato Masahisa Yamakawa	Transactions of CSICE, 27 , 5 (2009) pp. 401-407
A46 Characteristics of Mixture, Ignition and Combustion of Diesel Spray Injected by Micro-Hole Nozzle under Ultra-High Injection Pressure	Keiya Nishida Wu Zhang Olawole Abiola Kuti	CD-ROM Proceedings of 7th Asia-Pacific Conference on Combustion, (2009) pp. 1-4
A47 Spray and Evaporation Characteristics of Multi-Hole Injector for DISI Engines - Effect of Diverging Angle between Neighboring Holes-	Kiyotaka Sato Tadashi Tadokoro Masahisa Yamakawa Hideaki Yokohata Keiya Nishida Yasuki Sumoto Jiangping Tian	SAE Technical Paper, 2009-01-1500 (2009) pp. 1-13
A48 Transition from Thermal to Recombining Plasma in a Free Expanding Arc Jet Plasma Generator	S. Namba K. Nakamura K. Yashio S. Furukawa, K. Takiyama K. Sato	J. Plasma and Fusion Res. Series, 8 (2009) pp. 1348-1352
A49 Intensity and polarization of laser-induced fluorescence due to forbidden excitation of He atoms immersed in an electric field in plasmas	K. Takiyama S. Furukawa S. Namba T. Oda K. Kawasaki	Phys. Rev. E, 79 (2009) pp. 026402
A50 Spatially-resolved spectroscopic study of arcjet helium plasmas expanding through a rectangular-shaped converging-diverging nozzle	S. Namba N. Yashio K. Kozue K. Nakamura T. Endo K. Takiyama K. Sato	Jpn. J. Appl. Phys, 48 (2009) pp. 116005

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A51 Fast Neutrons Measured in Copper from the Hiroshima Atomic Bomb Dome	A. A. Marchetti J. E. McAninch G. Rugel W. Ruehm G. Korschinek R. E. Martinelli T. Faestermann K. Knie S. D. Egbert A. Wallner C. Wallner K. Tanaka S. Endo M. Hoshi K. Shizuma S. Fujita H. Hasai T. Imanaka T. Straume	Radiat. Res., 171 (2009) pp. 118-122
A52 A string-guide fast transport system and photoactivation of short-lived isomers ^{79m}Br and ^{77m}Se by ^{60}Co -ray irradiation	A. Murataka Y. Kojima S. Endo K. Shizuma	Nucl. Instrum. Meth. A, A610 (2009) pp. 645-659
A53 Microdosimetry on a Mini-Reactor UTR-KINKI for Educational Uses and Biological Researches	S. Endo K. Tanaka K. Fujikawa T. Horiguchi T. Itoh Y. Onizuka M. Hoshi A. Murataka Y. Kojima K. Shizuma	J. Radiat. Res., 50 (2009) pp. 83-87
A54 Characteristics of proton beam scanning dependent on Li target thickness from the viewpoint of heat removal and material strength for accelerator-based BNCT	K. Tanaka H. Yokobori S. Endo T. Kobayashi G. Bengua I. Saruyama Y. Nakagawa M. Hoshi	Appl. Radiat. Isot., 67 (2009) pp. 259-265
A55 Ultra low-dose radiation: Stress responses and impacts using rice as a grass model	R. Rakwal G. K. Agrawal J. Shibato T. Imanaka S. Fukutani S. Tamogami S. Endo, K. Sahoo Y. Masuo S. Kimura	Int. J. Mol. Sci., 10 (2009) pp. 1215-1225
A56 ESR dosimetry study for population living an around of Ust-Kamenogorsk city	K. Zhumadilov A. Ivannikov D. Zharlyganova Zh. Zhumadilov V. Stepanenko K. Apsalikov M. Rodzi A. Zhumadilova S. Toyoda S. Endo K. Tanaka T. Okamoto M. Hoshi	Radiat. Environm. Biophys., 48 (2009) pp. 419-425

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A57 Radiation Dose Measurement by Electron Spin Resonance Studies of Tooth Enamel in Lime and Non-lime Consuming Individuals from the Silchar Region of Northeast India	D. Bhattacharjee A. I. Ivannikov K. Zhumadilov V. F. Stepanenko K. Tanaka S. Endo M. Ohtaki S. Toyoda J. Bhattacharyya M. Hoshi	J. Radiat. Res., 50 (2009) pp. 559-565
A58 Q-beta-measurements with a total absorption detector composed of through-hole HPGe detector and anti-Compton BGO detector	H. Hayashi M. Shibata I. Miyazaki O. Suematsu Y. Kojima K. Kawade A. Taniguchi	Nucl. Instr. and Methods A, 606 (2009) pp. 484-489
A59 Thermal Stress Analysis and The Sealing Performance Evaluation of Bolted Flange Connection at Elevated Temperature	Yuya Omiya Toshiyuki Sawa	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77464], (2009)
A60 Stress Analysis and A Design Method for Bolted Flange Joints Subjected to Internal Pressure	T. Sawa T. Kobayashi H. Tsuji S. Nagata	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77587], (2009)
A61 A Simple Analytical And Design Method of Bolted Pipe Flange Connection	Y. Oyama T. Sawa T. Kobayashi S. Nagata	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77589], (2009)
A62 Self-Loosening Mechanism of Nuts Due to Cyclic Thermal Load	Y. Shoji T. Sawa	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77447], (2009)
A63 Three Dimensional Elastic-Plastic Finite Element Simulation on Bolt Tightening Beyond Yield	S. Nagata S. Kaneda H. Tsuji T. Sawa	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77689], (2009)
A64 Evaluation of Sealing Behavior of Gaskets at Elevated Temperature Based On The Test Method HPIS Z105 Proposed in Japan	H. Tsuji T. Honda A. Yamaguchi T. Kobayashi T. Sawa	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77846], (2009)
A65 The Sealing Performance Evaluation of Bolted Flexible Box-Shaped Flange Joints Under Thermal Conduction Conditions	R. Kurosawa Y. Omiya T. Sawa K. Tenma	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77292], (2009)
A66 Sealing Performance Evaluation of Pipe Flange of Pipe Flange Connection with Spiral Gasket Under Cyclic Thermal Condition	Y. Takagi H. Torii T. Sawa Y. Omiya	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77490], (2009)
A67 Deformation Characteristics of Pipe Flanges Due To Bolt Loads And Internal Pressure	T. Kobayashi K. Hamano K. Tsutomu T. Sawa S. Nagata	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77638], (2009)
A68 Evaluation of Sealing Performance of Pipe Flange Connection Subjected To External Bending	Y. Takagi T. Sawa K. Funada	Proceedings of ASME PVP 2008 Pressure Vessels & Piping Conference [PVP2009-77494], (2009)
A69 Two-dimensional stress analysis of adhesive butt joints filled with elastic circular fillers in the adhesive subjected to static tensile loadings	Toshiyuki Sawa Yosuke Akita Takeshi IWAMOTO	Journal of Adhesion Science and Technology, 23 , 2 (2009) pp. 195-214
A70 Nonlinear parametric vibrations of elastic structures containing two cylindrical liquid-filled tanks	Takashi Ikeda Shin Murakami Shin Ushio	Journal of System Design and Dynamics, 3 , 1 (2009) pp. 120-134

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A71 Nonlinear surface waves in a nearly square liquid tank under vertical excitation	Takashi Ikeda Raouf. A. Ibrahim	Proceedings of the 19th International Offshore (Ocean) and Polar Engineering Conference & Exhibition (ISOPÉ-2009), (2009)
A72 Nonlinear responses of dual pendulum dynamic absorbers	Takashi Ikeda	Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2009), (2009)
A73 Autoparametric interaction of a liquid surface in a rectangular tank with an elastic support structure under 1:1 internal resonance	Takashi Ikeda	Nonlinear Dynamics [Online First, 2009-11-8], (2009)
A74 Tooth Bending Strength and Surface Durability of Super-Carburized Steel Gear	Kiyotaka Ikejo Kazuteru Nagamura	Proceedings of MPT2009-Sendai the JSME International Conference on Motion and Power Transmissions, (2009) pp. 307-312
A75 Influence of Design Parameters on Strength and Driving Performance of Involute-Cycloid Composite Tooth Profile Gears	Natsuhiko Seyama Kazuteru Nagamura Kiyotaka Ikejo Koichi Isaki	Proceedings of MPT2009-Sendai the JSME International Conference on Motion and Power Transmissions, (2009) pp. 329-332
A76 Development of Damage Diagnosis on a Gear Tooth Surface by Using Laser Beam Reflection and Application to a Helical Gear	Eiichirou Tanaka Kazuteru Nagamura Kiyotaka Ikejo Tatsurou Sugiyama Ryozo Nemoto Kazuhiro Ohkubo Kazunari Okabe Satoshi Wada	Proceedings of MPT2009-Sendai the JSME International Conference on Motion and Power Transmissions, (2009) pp. 175-179
A77 Development of Close-Fitting-Type Walking Assist Machine Applied Hybrid Control System	Tadaaki Ikehara Eiichirou Tanaka Kazuteru Nagamura Takanobu Tamiya Naoki Fukaya Kenichi Hashimoto	Proceedings of MPT2009-Sendai the JSME International Conference on Motion and Power Transmissions, (2009) pp. 573-578
A78 Development of a Walking Assistance Apparatus using a Spatial Parallel Link Mechanism	Eiichirou Tanaka Tadaaki Ikehara Kazuteru Nagamura Kiyotaka Ikejo Kenichi Hashimoto Shozo Saegusa	Proceedings of MPT2009-Sendai the JSME International Conference on Motion and Power Transmissions, (2009) pp. 573-578
A79 Analysis and Prevention of Polygonal Wear on Roll Covered with Rubber	Kazuteru Nagamura Kiyotaka Ikejo Toshio Ueno Yoshitake Kobayashi	Proceedings of the 3rd International Conference on Manufacturing, Machine Design and Tribology (ICMDT2009), (2009) pp. 301
A80 Wear Test and Calculation of the Involute Spur Gear	Natsuhiko Seyama Kazuteru Nagamura Kiyotaka Ikejo Masanori Taguchi Masaya Torii	Proceedings of the 3rd International Conference on Manufacturing, Machine Design and Tribology (ICMDT2009), (2009) pp. 125
A81 Self-Locking of 2S-C Type Planetary Gear Train Composed of External Gears	Kiyotaka Ikejo Kazuteru Nagamura Tuneji Yada Yoshiya Kagari	Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2009, (2009)
A82 Tooth Surface Temperature and Tooth Root Stress of Spur Gear with Large Face Width	Kiyotaka Ikejo Kazuteru Nagamura Kouhei Yamaguchi Fumihiko Yokoyama Hideki Ogata Takashi Nakajima	Proceedings of World Tribology Congress 2009, (2009) pp. 495

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A84 Effect of Wall Temperature Condition on the Evolution of a Supersonic Turbulent Boundary Layer	Yusuke Tokura Hiroshi Maekawa Daisuke Watanabe Youichi Ogata	Proceedings of Sixth International Conference on Flow Dynamics, (2009) pp. 140-141
A85 Numerical Analysis of Wall Effect on Rarefied Gas using CIP Method	Youichi Ogata Shuyu Nagaoka Yoshihiro Matsumoto	Proc.of 15th International Conference on Finite Elements in Flow Problems, (2009)
A86 Conservative Semi-Lagrangian CIP to the Shallow Water Equations	Takashi Yabe Youichi Ogata	Proc.of 15th International Conference on Finite Elements in Flow Problems, (2009)
A87 Application of Multi-Agent Technology and Heterarchical Architecture for Production Scheduling	Zlatan Car Kazuhiro Ohkura Branimir Barisic	Engineering Review, 29 , 1 (2009) pp. 1-9
A88 Evaluation of Generation Alternation Models in Evolutionary Robotics	Masashi Oiso Yoshiyuki Matusmura Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 4th International Workshop on Natural Computing, (2009) pp. 236-243
A89 Cooperative Behavior Acquisition and Network Analysis in Swarm Robotics	Kazuhiro Ohkura Toshiyuki Yasuda Tomoya Matsuda Yoshiyuki Matusmura	Proceedings of Complex '09, (2009) pp. 367-372
A90 Analyzing the Process of Autonomous Specialization in Reinforcement Learning Robots	Toshiyuki Yasuda Shuhei Sakimoto Kazuhiro Ohkura	Proceedings of the 3rd International Symposium on Mobiligence, (2009) pp. 143-148
A91 Job Shop Scheduling Using Estimation of Distribution Algorithms	Masahiro Fujimoto Toru Eguchi	Proceedings of ICCAS-SICE International Joint Conference 2009, (2009)
A92 Integrated Production Planning and Scheduling Using Backward/Forward Scheduling Simulation	Shinji Hirano Shigeo Kobayashi Toru Eguchi	Proceedings of ICCAS-SICE International Joint Conference 2009, (2009)
A93 Virtual disturbance loop-shaping for multi-loop PID control	Masami Saeki	Proceedings of the 2009 IEEE International Conference on Networking, Sensing and Control, (2009) pp. 533-538
A94 Design method of fault detector for injection unit	Kiyoshi Ochi Masami Saeki	SICE Journal of Control, Measurement, and System Integration, 2 , 2 (2009) pp. 72-77
A95 Experimental study of virtual disturbance loop-shaping method for angular velocity control of a belt-drive system	Yosuke Sugitani Masami Saeki	ICROS-SICE International Joint Conference, (2009) pp. 914-919
A96 Tuning of dynamical controllers by a data-driven loop-shaping method for a single input plant	Masami Saeki Yosuke Sugitani	Joint 48th IEEE Conference on Decision and Control and 28th Chinese Control Conference, (2009) pp. 690-695
A97 A recursive algorithm of exactness verification of relaxations for robust SDPs	Izumi Masubuchi Carsten W. Scherer	Systems & Control Letters, 58 (2009) pp. 592-601
A98 Gain-scheduled controller synthesis via Lyapunov matrices that depend on the filtered scheduling parameter	Izumi Masubuchi Iori Kurata	Proc. of 2009 International Conference on Networking, Sensing and Control, (2009) pp. 416-421
A99 Stability analysis of nonlinear systems via locally defined density functions	Izumi Masubuchi	Proc. of the ICROS-SICE International Joint Conference 2009, (2009) pp. 2454-2457

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A102 Mirror Finishing of Austenitic Stainless Steel with a Cermet Insert	Katsuhiko Sekiya Ryo Tezuka Yasuo Yamane Keiji Yamada	Key Engineering Materials, 407-408 (2009) pp. 384-387
A103 The Relationship between Dynamic Components od Cutting Force and Adhesion of Tool-Chip Interface	Ryo Tezuka Katsuhiko Sekiya Keiji Yamada Yasuo Yamane	Key Engineering Materials, 407-408 (2009) pp. 469-472
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A105 Gloss Evaluation Method for Metal Surface with Hairline Using Paterned Area Illumination	Tadanori Sugino Yumi Satozono Yasuo Yamane	Key Engineering Materials, 407-408 (2009) pp. 723-726
A106 Influence of Additional Electrical Current on Machinability of BN Free-Machining Steel in Turning	Ryutaro Tanaka Lin Youngchuan Akira Hosokawa Takashi Ueda Keiji Yamada	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 3 , 2 (2009) pp. 171-178
A107 Dental Treatment with Laser Beam - Monitoring Enabling Safe Hard-Tooth-Tissue Removal -	Keiji Yamada Takashi Ueda Akira Hosokawa Tatsuaki Furumoto Ryutaro Tanaka	Int. J. of Automation Technology, 3 , 5 (2009) pp. 494-501
A108 Detection of Chatter by the Measurement of Acceleration of the Spindle Head in the Axial Direction	Katsuhiko Sekiya Yuka Nakahara Ryo Tezuka Keiji Yamada Yasuo Yamane	Proc. of the 5th Int. Conf. on Leading Edge Manufacturing in 21st Century, (2009) pp. 477-482
A109 New Method for Controling Air Permeability of Porous Metal with Laser	Keiji Yamada Nobuyuki Ohnishi Junji Tsuboi Yasuo Yamane Katsuhiko Sekiya	ASPEN 2009, 3rd Int. Conf. of Asian Society for Precision Engineering and Nanotechnology, (2009)
A110 Transfer of Tool Geometry onto the Machined Surface in Continuou Turning of Adhesive Metals	Katsuhiko Sekiya Ryo Tezuka Keiji Yamada Yasuo Yamane	ASPEN 2009, 3rd Int. Conf. of Asian Society for Precision Engineering and Nanotechnology, (2009)
A111 A Study of High Temperature Viscoplastic Deformation of Beta Titanium Alloy Considering Yield-Point Phenomena	X. T. Wang H. Hamasaki M. Yamamura R. Yamauchi T. Maeda Y. Shirai F. Yoshida	Key Engineering Materials, 410/411 (2009) pp. 177-185
A112 Yield-Point Phenomena of Ti-20V-4Al-1Sn at 1073 K and Its Constitutive Modelling	X. T. Wang H. Hamasaki M. Yamamura R. Yamauchi T. Maeda Y. Shirai F. Yoshida	Materials Transactions, 50 , 6 (2009) pp. 1576-1578

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D3 Direct synthesis of hBN/MWCNT composite particles using spray pyrolysis	F. Iskandar S. G. Kim A. B. D. Nandiyanto Y. Kaihatsu T. Ogi K. Okuyama	J. Alloys Compd., 471 , 1-2 (2009) pp. 166-171
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D7 Production of Morphology-Controllable Porous Hyaluronic Acid Particles using a Spray Drying Method	F. Iskandar A. B. D. Nandiyanto W. Widiyastuti S. Y. Lee K. Okuyama	Acta Biomaterialia, 5 , 4 (2009) pp. 1027-1034
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D38 A New Correlation and Prediction Method for the Solubility of Metal Complexes in Supercritical Carbon Dioxide Using Regular Solution Theory with the COSMO-RS Method	Masashi Haruki Kazuya Kishimoto Fumiya Kobayashi Shin-ichi Kihara Shigeki Takishima	Journal of Chemical Engineering of Japan, 42 , 5 (2009) pp. 309-318
D39 Solubility of β -Diketonate Complexes for Cobalt(III) and Chromium(III) in Supercritical Carbon Dioxide	Masashi Haruki Fumiya Kobayashi Masaaki Okamoto Shin-ichi Kihara Shigeki Takishima	Proceedings of the 5th International Symposium of Molecular Thermodynamics and Molecular Simulation, (2009)
D40 Thermosensitive properties of N,N-dimethyl-acrylamide gel having poly(N-isopropylacrylamide) Chains grafted on gel network	Atushi Takahashi Chuhei Ootsuki Shuji Sakohara	The 5th Joint China/Japan Chemical Engineering Symposium, S3 (2009) pp. 1-4
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D157 Removal of Aluminum from Water Treatment Residuals for Reusing as Plowed Soil	Tetsuji Okuda Wataru Nishijima Naoyuki Saka Mayo Sugimoto Satoshi Nakai Mitsumasa Okada	The 3rd IWA-ASPIRE Conference, (2009)
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