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Published Papers

A. Mechanical System Engineering

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A1 Similar and dissimilar spot welding of Mg alloys	P. Su A. Gerlich M. Yamamoto T.H. North	Internat. Conf. Magnesium Technology, Montreal, October 3rd/4th 2006, (2006)
A2 Modeling of precipitation and Cr depletion profiles of Inconel 600 during heat treatments and LSM procedure	G. Bao K. Shinozaki M. Inkyo T. Miyoshi M. Yamamoto Y. Mahara H. Watanabe	Journal of Alloys and Compounds, 419 (2006) pp. 118-125
A3 Simulation of Infiltration of Molten Alloy to Porous Preform Using Low Pressure	Yong Bum Choi Gen Sasaki Kazuhiro Matsugi Naoki Sorida Shunsaku Kondoh Toshio Fujii Osamu Yanagisawa	JSME International Journal, 49 , 1 (2006) pp. 20-24
A4 Analysis of Manufacturing Processes for Metal Fiber Reinforced Aluminum Alloy Composite Fabricated by Low-Pressure Casting	Yong Bum Choi Kazuhiro Matsugi Gen Sasaki Kazushi Arita Osamu Yanagisawa	Materials Transactions, 47 , 4 (2006) pp. 1227-1231
A5 Temperature Simulation of Pb-Free Sn-9Zn Elements for a Low Voltage Fuse	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa Yasuo Kumagai Koji Fujii	Materials Transactions, 47 , 9 (2006) pp. 2413-2420
A6 Effect of Al18B4O33 Whisker Surface Treatment on Aging Behavior of Al18B4O33 Whisker/ZK60 Magnesium Alloy Composites	W.G. Wang Y. Hasegawa Y.B. Choi N. Fuyama K. Matsugi O. Yanagisawa G. Sasaki	Key Engineering Materials, 326-328 (2006) pp. 1673-1676
A7 Low Pressure Casting Process of Fe-CrSi/A366.0 Alloy Composites and Their Characterization	Yong Bum Choi Gen Sasaki Kazuhiro Matsugi Shunsaku Kondoh Osamu Yanagisawa	Key Engineering Materials, 326-328 (2006) pp. 1741-1744
A8 Spark Sintering of Electroless Nickel or Tin Plated Metal, Carbide, Oxide and Sulfide Powders	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa	Proc. of 6th Pacific Rim Int. Conf. on Ceramic and Glass Technology, 194 (2006) pp. 197-208
A9 Spark Sintering Rate of Pure Copper Powder Compact	Kazuhiro Matsugi Hideaki Kuramoto Gen Sasaki Osamu Yanagisawa	Proc. of 6th Pacific Rim Int. Conf. on Ceramic and Glass Technology, 194 (2006) pp. 161-172
A10 Influence of Preform Preparation Condition on Infiltration of Molten Aluminum	Takashi Yamanaka Yong Bum Choi Kazuhiro Matsugi Osamu Yanagisawa Gen Sasaki	Proc. of 3rd Int. Conf. on Advanced Forming and Die Manufacturing Technology, (2006) pp. M3E-3-1-M3E-3-7

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A11 Surface Treatment of Al18B4O33 Whisker and Development of Al18B4O33/ZK60 Magnesium Alloy Matrix Composite	G. Sasaki W.G. Wang Y. Hasegawa Y.B. Choi N. Fuyama K. Matsugi O. Yanagisawa	Proc. of 3rd Int. Conf. on Advanced Forming and Die Manufacturing Technology, (2006) pp. M1E-4-1-M1E-4-5
A12 First observation of plasma motion in GAMMA 10 using fast camera	Nobuhiro Nishino Y.Nakashima Y.Higashizono S.Kobayashi Islam Md. Khairul Y.Kubota M.Yoshikawa Y.Mishima T.Cho	Journal of Plasma and Fusion Research, 1 (2006)
A13 Model of filament structure in a turbulence plasma edge	Nobuhiro Nishino	Nuclear Fusion, 46 (2006) pp. S658-S664
A14 High-speed 2D measurement of edge turbulence phenomena with a fast camera in Heliotron J	Nobuhiro Nishino T. Mizuuchi Z. Feng S. Kobayashi K. Nagasaki H. Okada Y. Torii K. Kondo F. Sano	J. Nucl. Mater., (2006)
A15 2-d image diagnostic technique for edge turbulence using fast cameras	Nobuhiro Nishino T. Mizuuchi Z. Feng S. Kobayashi K. Nagasaki H. Okada F. Sano K. Kondo Y. Nakashima Y. Higashizono H. Kawano T. Cho M. Shoji K.Sasaki K.Hanada H.Zushi	Journal of Plasma and Fusion Research Series, 9 (2006)
A16 Development of High-speed Centrifugal Compaction Process of Alumina	Hiroyuki Y. Suzuki Hidenori Kuroki	Advances in Science and Technology, 45 (2006) pp. 421-426
A17 Molecular Dynamics Simulation of Grain Boundary Formation and Migration in Silicon	Kenjiro Sugio Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 47 , 11 (2006) pp. 2711-2717
A18 The Performance of Thin NaI(Tl) Scintillator Plate for Dark Matter Search	K. Fushimi H. Kawasuo E. Aihara R. Hayami M. Toi K. Yasuda S. Nakayama N. Koori M. Nomachi K. Ichihara Ryuta Hazama S. Yoshida S. Umehara K. Imagawa H. Ito	Journal of the Physical Society of Japan, 75 , 6 (2006) pp. 064201-1-064201-5

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A19 A Search for Neutrinos from the Solar hep Reaction and the Diffuse Supernova Neutrino Background with the Sudbury Neutrino Observatory	B. Aharmim Ryuta Hazama et al.	The Astrophysical Journal, 653 (2006) pp. 1545-1551
A20 CANDLES for double beta decay of ⁴⁸ Ca	S. Umehara T. Kishimoto I. Ogawa Ryuta Hazama S. Yoshida K. Matsuoka D. Yokoyama K. Mukaida K. Ichihara Y. Hirano A. Yanagisawa	Journal of Physics Conference Series, 39 (2006) pp. 356-358
A21 MOON for spectroscopic studies of double beta decays and the present status of the MOON-1 prototype detector	H. Nakamura H. Ejiri K. Fushimi K. Ichihara K. Matsuoka M. Nomachi Ryuta Hazama S. Umehara S. Yoshida T. Ogama T. Sakiuchi V. H. Hai Y. Sugaya	Journal of Physics Conference Series, 39 (2006) pp. 350-352
A22 WIMPs search by means of thin NaI(Tl) array	K. Fushimi H. Kawasuso E. Aihara R. Hayami N. Koori S. Nakayama K. Yasuda Ryuta Hazama K. Ichihara H. Nakamura M. Nomachi T. Ogama S. Umehara S. Yoshida H. Ejiri K. Imagawa H. Ito	Journal of Physics Conference Series, 39 (2006) pp. 120-122
A23 Oscillating Phenomenon of Conjugate Natural Convection of Liquid Metal in a Square Enclosure	Jun Kashima Ryuta Isago Yoshihiro Kikuchi	Proc. 5th Korea-Japan Symp. Nuclear Thermal Hydraulics and Safety (NTHAS5), 1 (2006) pp. 444-449
A24 Trial for diameter-selective synthesis of single-walled carbon nanotubes	Shuhei Inoue Takeshi Nakajima Yoshihiro Kikuchi	Carbon, 44 , 6 (2006) pp. 1287-1291
A25 Growth Mechanism and Selective Synthesis of SWNTs	Shuhei Inoue Takeshi Nakajima Kazuya Nomura Yoshihiro Kikuchi	Proc. of European Nano Systems 2006 (ENS 2006), 1 (2006) pp. 19-24
A26 Numerical Studies on Specific Impulse of Partially Filled Pulse Detonation Rocket Engines	Shigeru Sato Akiko Matsuo Takuma Endo Jiro Kasahara	Journal of Propulsion and Power, 22 , 1 (2006) pp. 64-69
A27 Effect of Split Injection Strategy on Combustion and Emission Characteristics of D.I. Diesel Engine	Sadahiro Akiba Keiya Nishida Xinyun Zi Wu Zhang	Proceedings of the 2nd International Symposium on Clean and High-Efficiency Combustion in Engines ISCE'2006, ISCE06-45 (2006) pp. 85-90

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A28 Combustion and Emission Formation Processes in D.I. Diesel Engine under Various Injection Strategies	Keiya Nishida Sadahiro Akiba Kazunori Hirabayashi Katsuya Marushita Wu Zhang	CD-ROM Proceedings of FISITA 2006 World Automotive Congress, F2006P278 (2006) pp. 1-10
A29 Effects of Hole Geometry and Its Internal Flow on Spray and Mixture Properties of Hole-Type Injectors for a DISI Engine	Kiyotaka Sato Jun Kanzaki Masahisa Yamakawa Keiya Nishida	CD-ROM Proceedings of 10th International Conference on Liquid Atomization and Spray Systems ICALSS-2006, ICLASS06-166 (2006) pp. 1-8
A30 Spray and Mixture Properties of Group-Hole Nozzle for D.I. Diesel Engine	Keiya Nishida Shinsuke Nomura Yuhei Matsumoto	CD-ROM Proceedings of 10th International Conference on Liquid Atomization and Spray Systems ICALSS-2006, ICLASS06-171 (2006) pp. 1-8
A31 Inclusive Data on Evaporating Fuel Spray Injected by Hole-Type D.I. Diesel Injector (Hole Geometry, Injection Rate, Liquid/Vapor Phase Concentration Distributions, Spray/Mixture Properties)	Jian Gao Yuhei Matsumoto Keiya Nishida	CD-ROM Proceedings of 10th International Conference on Liquid Atomization and Spray Systems ICALSS-2006, ICLASS06-173 (2006) pp. 1-8
A32 Spray Characteristics of a Group-Hole Nozzle for D.I. Diesel Engines	Yuyin Zhang Keiya Nishida Shinsuke Nomura Tomoaki Ito	Atomization and Sprays, 16 , 1 (2006) pp. 35-50
A33 Recent Developments of Tubular Flame Burners	Satoru Ishizuka	Proceedings of the 33rd KOSCO Symposium, 33 (2006) pp. 7-8
A34 Efficient Electron Heating in Nitrogen Clusters Irradiated with Intense Femtosecond Laser Pulse	S. Namba N. Hasegawa, K. Nagashima T. Kawachi M. Kishimoto K. Sukegawa K. Takiyama	Physical Review A, 73 (2006) pp. 013205
A35 Spectroscopic study of ablation and recombination processes in a laser-produced ZnO plasma	S. Namba R. Nozu K. Takiyama T. Oda	Journal of Applied Physics, 99 (2006) pp. 073302
A36 Spectroscopic study of debris mitigation with minimum-mass Sn laser-plasma for extreme ultraviolet lithography	S. Namba S. Fujioka H. Nishimura U. Yasuda K. Nagai N. Miyanaga Y. Izawa K. Mima K. Takiyama	Applied Physics Letters, 88 (2006) pp. 151503
A37 Development of supersonic metastable helium pulsed beam source for plasma diagnostics	S. Namba D. Andruczyk K. Takiyama D. Ueno S. Furukawa B. W. James	Japanese Journal of Applied Physics, 45 , 10B (2006) pp. 8099-8103
A38 A short-pulsed compact supersonic helium beam source for plasma diagnostics	D. Andruczyk S. Namba B. W. James K. Takiyama T. Oda	Plasma Device and Operations, 14 (2006) pp. 81-91

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A39 Observation of OH Radical Reactions with Atomic Hydrogen in He/H ₂ O Plasmas by LIF spectroscopy	Ken Takiyama Shinichi Namba Tutomu Yamasaki Akira Shoji Jun-Hyoun Kwon Rae-Eun Park Hideo Nojima	Jpn. J. Appl. Phys., 45 , 10B (2006) pp. 8260-8263
A40 Depolarization effect by electrons on electric field measurements in He plasmas using LIF polarization spectroscopy	K. Takiyama T. Yamasaki S. Furukawa, T. Nagashima S. Namba T. Oda	Proceedings of the 6th International Conference on Reactive Plasmas and 23rd Symposium on Plasma Processing, (2006) pp. 711-712
A41 Emission profile from micro-hollow cathode discharge plasmas in helium water vapor mixture	T. Yamasaki S. Namba K. Takiyama	Proceedings of the 6th International Conference on Reactive Plasmas and 23rd Symposium on Plasma Processing, (2006) pp. 345-346
A42 Spectroscopic studies of ionization and recombination dynamics in laser produced ZnO plasmas	S. Namba K. Uemura S. Furukawa K. Takiyama	Proceedings of the 6th International Conference on Reactive Plasmas and 23rd Symposium on Plasma Processing, (2006) pp. 386-387
A43 Elemental Analysis of Uranouchi Bay Seabed Sludge Using PIXE	M Hasnat Kabir Tadashi Narusawa Fumitaka Nishiyama Katsuhiko Sumi	International Journal of PIXE, 16 , 3&4 (2006) pp. 221-230
A44 Experimental apparatus at KUR-ISOL to identify isomeric transitions from fission products, and decay spectroscopy of ¹⁵¹ Ce	Y. Kojima M. Shibata A. Taniguchi Y. Kawase R. Doi A. Nagao K. Shizuma	Nuclear Instruments and Methods A, 564 (2006) pp. 275-282
A45 α decay of ²³⁸ Cm and the new isotope ²³⁷ Cm	M. Asai K. Tsukada S. Ichikawa M. Sakama H. Haba I. Nishinaka Y. Nagame S. Goto Y. Kojima Y. Oura M. Shibata	Physical Review C, 73 (2006) pp. 067301(1)-067301(4)
A46 EXPERIMENTAL EVALUATION OF SCREW THREAD LOOSENING IN BOLTED JOINTS WITH SOME PARTS AND ANALYTICAL APPROACH OF LOOSENING MECHANISM OF THE JOINTS UNDER REPEATED TRANSVERSE LOADINGS	Toshiyuki Sawa Mitsutoshi Ishimura Yasumasa Shoji Hiroshi Yamanaka	Proceedings of SAE 2006 World Congress, (2006)
A47 NEW DESIGN FORMULA FOR BOLTED JOINTS UNDER TENSILE LOADS	Toshiyuki Sawa	Proceedings of SAE 2006 World Congress, (2006)
A48 The effect of the thermal Expansion Coefficient on the Sealing Performance of Pipe Flange Connections with NiTi Shape Memory Alloy gaskets	Yoshio Takagi Teruhisa Tatsuoka Toshiyuki Sawa	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A49 Measurements of Thermal Properties of Gaskets for the Design of Bolted Flange Joints Under Thermal Conductions	Takahiro Ohmura Kanji Hanashima Junichi Nyumura Toshiyuki Sawa	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)

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A50 FEM Stress Analysis and an Evaluation of the Sealing Performance in Non-Circular Flange Connections with Gaskets Subjected to Internal Pressure	Toshiyuki Sawa Ryo Kurosawa Wataru Maezaki	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A51 Experimental Evaluation of Screw Thread Loosening in Bolted Joint with Some Parts for Preventing the Loosening Under Transverse Repeated Loadings	Toshiyuki Sawa Mitsutoshi Ishimura Hiroshi Yamanaka	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A52 Evaluation of Sealing Behavior of Gaskets Based on the Test Method HPIS Z104 Proposed in Japan	Takashi Kobayashi Toshiyuki Sawa Hirokazu Tsuji Shoichi Shigetome	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A53 Evaluation of the Sealing Performance in Bolted Flange Connection Under Heat Condition and Internal Pressure: The Effect of Scatter in Bolt Preloads	Toshiyuki Sawa Yoshio Takagi Katsuhiko Yamada	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A54 Effects of Scatter in Bolt Preload on the Sealing performance in Bolted Flange Connections with Cover of Pressure Vessel Under Internal pressure	Satoshi Nagata Toshiyuki Sawa Seiichi Hamamoto	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A55 New Tightening Diagram for Bolted Flange Gasket Joints	Yoshio Ueno Satoshi Nagata Takashi Kobayashi Toshiyuki Sawa	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A56 Elasto-Plastic FEM Stress Analysis of Pipe Flange Connections Under Internal Pressure	Toshiyuki Sawa Satoshi Nagata Naofumi Ogata	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A57 Load Factor Based Calculation for Gasketed Flange Connection with Cover Plate Subjected to Internal Pressure	Satoshi Nagata Toshiyuki Sawa	Proceedings of ASME PVP 2006/ICPVT 11 CONFERENCE, (2006)
A58 A Stress Analysis and Strength of Scarf Adhesive Joints Under Static Tensile Loadings	Toshiyuki Sawa Masahiro Sasaki Yuya Hirayama	Proceedings of The 3rd World Congress on Adhesion and Related Phenomena, (2006) pp. 132-136
A59 Two-dimensional Stress Analysis and the Strength Estimation of Adhesive Butt Joints Under Bending Moments	Toshiyuki Sawa Yosuke Akita	Proceedings of The 3rd World Congress on Adhesion and Related Phenomena, (2006) pp. 137-141
A60 Two-dimensional Stress Analysis of Single-lap Adhesive Joints Subjected to Tensile Loads	Toshiyuki Sawa Katsuyuki Nakano Shiro Iiduka	Proceedings of The 3rd World Congress on Adhesion and Related Phenomena, (2006) pp. 142-148
A61 A Stress Analysis and Strength Evaluation of Stepped-lap Adhesive joints Under Static Loadings	Toshiyuki Sawa Katsuyuki Nakano Shiro Iiduka	Proceedings of The 3rd World Congress on Adhesion and Related Phenomena, (2006) pp. 186
A62 Non-Rotational-Loosening Behavior of Bolted Joint Constructed from Steel Tube and Plates	Yasuo Fujioka Koichi Hara Toshiyuki Sawa	Proceedings of ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, (2006)
A63 FEM Analysis and an Evaluation of the Sealing Performance in Flexible Box-Shape Flanged Bolted Joints with Gaskets Subjected to Internal Pressure	Toshiyuki Sawa Yasuaki Tatsumi Ryo Kurosawa	Proceedings of ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, (2006)
A64 Two-Dimensional Stress Analysis of Adhesive Butt joints Filled with Elastic Circular Fillers in an Adhesive Subjected to Static Tensile Loadings	Toshiyuki Sawa Yosuke Akita	Proceedings of ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, (2006)
A65 A Stress Analysis and Strength Evaluation of Scarf Adhesive Joints Subjected to Static Tensile Loading	Toshiyuki Sawa Yuya Hirayama Masahiro Sasaki	Proceedings of ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, (2006)

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A66 New Development in Studies on the Characteristics of Bolted Pipe Flange Connections in JPVRC	Toshiyuki Sawa Satoshi Nagata Hirokazu Tsuji	Journal of Pressure Vessel Technology, 128 (2006) pp. 103-108
A67 A computational study of interface motion driven by diffusion and stress fields under finite deformation using the level-set method	Takeshi Iwamoto Mohammed Cherkaoui Esteban P. Busso	Proceedings of Plasticity 2006 (CD-ROM), (2006)
A68 Removal of Pipe Fouling Inside Pipes Using Ultrasonic Waves	Noritoshi Nakagawa Masaya Fujihara Chaoqun Wu Jun Satonobu	JSME International Journal, Series C, 49 , 3 (2006) pp. 713-718
A69 Dynamic Characteristics of Exhaust Hanger Composed of Rubber and Thin Metal Ring	Kazunari Nakahara Noritoshi Nakagawa Katsutoshi Ohta Tetsuya Miyake Ramanjaneyulu Kakarla	JSME International Journal, Series C, 49 , 3 (2006) pp. 750-757
A70 Study on Acoustic Cavitations in the Ultrasonic Radiation Field	Chaoqun Wu Noritoshi Nakagawa Masaya Fujihara	JSME International Journal, Series C, 49 , 3 (2006) pp. 758-763
A71 Identification Method of Plural Sound Sources by Using Measured Values with Error and Power Spectra Identification	Noritoshi Nakagawa Yasuhisa Sekiguchi	Proc. of the 13th International Congress on Sound and Vibration, (2006)
A72 Experimental Study on Frictional Vibration in Bearing Case of Centrifugal Fan	Takeo Fujii Noritoshi Nakagawa	Proc. of the 8th International Conference on Motion and Vibration Control (MOVIC 2006), (2006) pp. 398-403
A73 Observation of Multibubble Cavitation in the Ultrasonic Cleaning Tank	Noritoshi Nakagawa Chaoqun Wu Yasuhisa Sekiguchi	Proc. of the Fourth Joint Meeting: ASA and ASJ, (2006) pp. 1-12
A74 Foreword	Noritoshi Nakagawa	JSME International Journal, Series C, 49 , 3 (2006) pp. 633-633
A75 The Damage Diagnosis of Gear Tooth Surface by Using a Laser Beam Reflection	Eiichirou Tanaka Kazuteru Nagamura Kiyotaka Ikejo Ryozyo Nemoto	Proceedings of the International Conference on Mechanical Transmissions (IMCT'2006), (Chongqing, CHINA), 2 (2006) pp. 990-995
A76 Acoustic Wave Generation in a Compressible Wake	Hiroshi Maekawa Takashi Takiguchi Daisuke Watanabe	JSME International Journal Series B, 49 , 4 (2006) pp. 1086-1091
A77 Acoustic Waves Emanating from Transitional Structures in a Compressible Boundary-layer for High-speed Train	Daisuke Watanabe Hajime Takami Hiroshi Maekawa Katsuhiro Kikuchi Masanobu Iida Hiroki Suzuki	Proc. of 13th International Congress on Sound and Vibration (ICSV13), (2006)
A78 Low-Frequency Noise Radiated from a High-Speed Train Running in an Open Section	Hajime Takami Katsuhiro Kikuchi Masanobu Iida Hiroshi Maekawa Takeshi Kurita Yusuke Wakabayashi	Proc. of 13th International Congress on Sound and Vibration (ICSV13), (2006)
A79 Production Planning and Simulation for Reverse Supply Chain	Takeshi Murayama Mitsunobu Yoda Toru Eguchi Fuminori Oba	JSME International Journal Series C, 49 , 2 (2006) pp. 281-286
A80 Bi-criteria Scheduling for Meeting Due-dates and Minimizing Setup Times Using the Mixture of a Genetic Algorithm and a Priority Rule	Toru Eguchi Hiroaki Kawai Fuminori Oba	Proceedings of the 39th CIRP International Seminar on Manufacturing Systems, 241 , 266 (2006) pp. 241-246

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A81 Efficient Dynamic scheduling with Short Forecast Window using the Mixture of a Genetic Algorithm and a Priority Rule	Toru Eguchi Masashi Dougakiuchi Fuminori Oba Takeshi Murayama	Proceedings of the 2006 International Symposium on Flexible Automation, (2006)
A82 A Homogeneous Mobile Robot Team That is Fault-Tolerant	Toshiyuki Yasuda Kazuhiro Ohkura Kanji Ueda	The Advanced Engineering Informatics Journal, 20 , 6 (2006) pp. 301-311
A83 Estimating the Degree of Neutrality in Fitness Landscapes by the Nei's Standard Genetic Distance - An Application to Evolutionary Robotics	Yoshiaki Katada Kazuhiro Ohkura	Proceedings of the 2006 Congress on Evolutionary Computation, (2006) pp. 1590-1597
A84 An Ecological Approach to the Feature Analysis of Evolutionary Multi-Agent Systems	Masanori Goka Kazuhiro Ohkura	Proceedings of the 6th International Workshop on Emergent Synthesis, (2006) pp. 173-180
A85 Behavior Acquisition Based on Reinforcement Learning with Adaptive Action Generator	Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 6th International Workshop on Emergent Synthesis, (2006) pp. 283-288
A86 Fixed structured PID controller design for standard H-infinity control problem	Masami Saeki	Automatica, 42 , 1 (2006) pp. 93-100
A87 Gain scheduling controller design for two-rotor hovering system and its experimental verification	Makoto Yamashita Masami Saeki Nobutaka Wada Izumi Masubuchi	Journal of Robotics and Mechatronics, 18 , 5 (2006) pp. 589-597
A88 Properties of stabilizing PID gain set in parameter space	Masami Saeki	Proceedings of the 17th International Symposium on Mathematical Theory of Networks and Systems, (2006) pp. 2277-2283
A89 Static output feedback design for H_∞ control by descent method	Masami Saeki	Proceedings of the 45th IEEE Conference on Decision and Control, (2006) pp. 5156-5161
A90 Model Predictive Control for Linear Parameter Varying Systems using Parameter Dependent Lyapunov Function	Nobutaka Wada Koji Saito Masami Saeki	IEEE Transactions on Circuits and Systems, II-53 , 12 (2006)
A91 Constrained Control of Planar Systems Using Multi-level Variable Saturation Function	Nobutaka Wada Masami Saeki	Proc. of International Symposium on Mathematical Theory of Networks and Systems, (2006) pp. 1824-1828
A92 Dissipativity Inequalities for Continuous-Time Descriptor Systems with Applications to Synthesis of Control Gains	Izumi Masubuchi	Systems & Control Letters, 55 , 2 (2006) pp. 589-597
A93 Stability Analysis of Hybrid Automata with Set-Valued Vector Fields Using Sum of Squares	Izumi Masubuchi Tokihisa Tsuji	IEICE Transactions on Fundamentals, E89-A , 11 (2006) pp. 3185-3191
A94 Characterization of Positively Invariant Sets by Density Functions	Izumi Masubuchi	17th International Symposium on Mathematical Theory of Networks and Systems, (2006) pp. 1599-1607
A95 A Change-of-Variables Method for Output Feedback Synthesis of Descriptor Systems Based on Realization-Independent LMIs	Izumi Masubuchi	17th International Symposium on Mathematical Theory of Networks and Systems, (2006) pp. 2259-2270
A96 Density Functions Characterizing Positive Invariance and Regional Almost Attraction with Converse Results	Izumi Masubuchi	45th IEEE Conference on Decision and Control, (2006) pp. 5126-5131
A97 Reaction force estimation for injection unit by disturbance observer	Kiyoshi Ochi Masami Saeki	SICE-ICASE International Joint Conference 2006, (2006) pp. 4468-4472

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A99 Effect of Oil Mist on Tool Temperature in Cutting	Takashi Ueda Akira Hosokawa Keiji Yamada	Trans. of the ASME, J. of Manufac. Sci. and Eng., 128 , 1 (2006) pp. 130-135
A100 Thermal Damage of Silicon Wafer in Thermal Cleaving Process with Pulsed Laser and CW Laser	Keiji Yamada Takashi Ueda Akira Hosokawa Yasuo Yamane Katsuhiko Sekiya	Proc. of Photonics West 2006: Lasers and Applications in Science and Engineering, (2006)
A101 On-machine Evaluation Method for Misengagement of Toolholder by Inclusion of Chips	Keiji Yamada Yasuo Yamane Katsuhiko Sekiya Tadashi Makiyama	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 57-60
A102 Tool Life Detecting System Using Damage Sensor-Integrated Insert	Katsuhiko Sekiya Yasuo Yamane Ayumu Torimoto	JSME International Journal, Series C, 49 , 2 (2006) pp. 301-306
A103 Tool Wear under High-speed End Milling of Ti-6Al-4V Alloy	Katsuhiko Sekiya Yasuo Yamane Keiji Yamada Norihiko Narutaki	Material Science and Technology (MS&T) 2006: Product Manufacturing, (2006) pp. 57-60
A104 Reduction of Adhesion with an Amorphous Silicon Coated Tool	Ryo Tezuka Katsuhiko Sekiya Masahiko Kato Yasuo Yamane Keiji Nakasa Keiji Yamada	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 205-208
A105 Visualizing and Measuring of Splayed Mixture with Optical Dispersion Method for MQL Drilling	Tadashi Makiyama Katsuhiko Sekiya Keiji Yamada Yasuo Yamane	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 297-300
A106 Turning of BN Free-machining Steel	Ryutarō Tanaka Yasuo Yamane Katsuhiko Sekiya Norihiko Narutaki Tetsuo Shiraga	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 477-479
A107 Difficulty in Machining Calculated from Mechanical and Thermal Properties of Difficult-to-cut Material	Yasuo Yamane Katsuhiko Sekiya Norihiko Narutaki Emmanuel O. Ezugwu	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 497-501
A108 Development of Coated Tools that Generate Wear-resistant Protective Layers during High-speed Dry Machining	Shogo Nakashima Hiroshi Usuki Satoshi Furuya Yasuo Yamane Takashi Kano Kazuyuki Kubota Norihiko Shima	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 89-92
A109 Examination by Modeling on Cutting Temperature of the Titanium Alloys	Akihiko Ikuta Yasuhiro Fukaya Shohei Kobatake Kenji Shinozaki Hidenori Kuroki Yasuo Yamane Masatoshi Aritoshi Kazuya Hamaguchi	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 137-140
A110 Deterministic Ultra-precision Cutting of Cemented Carbide for Aspheric Mold	Kunitaka Kuriyama Masahiko Fukuta Yasuo Yamane	Proc. of the Eighth International Conference on Progress of Machining Technology, (2006) pp. 353-356

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A112 Identification of Plasticity Parameters of Metallic Coatings by means of Depth-Sensing Micro-Indentation	Hiroshi Hamasaki Fusahito Yoshida	Materials Science Forum, 505-507 (2006) pp. 757-762
A113 Influence of strain ratio on bending fatigue life and fatigue crack growth in TiNi shape-memory alloy thin wires	R. Matsui Y. Makino H. Tobushi Y. Furuichi F. Yoshida	Materials Transactions, 47 , 3 (2006) pp. 759-765
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B2 An Application of Tabu Search for Multi-Dimensional Competitive Facility Location Problem	Takeshi Uno Masatoshi Sakawa Kosuke Kato Seiichirou Hanaoka	Proceedings of Joint 3rd International Conference on Soft Computing and Intelligent Systems and 7th International Symposium on advanced Intelligent Systems, (2006) pp. 1519-1523
B3 Jumping pattern optimization for a serial link robot through soft computing technique	Takeshi Matsui Masatoshi Sakawa Takeshi Uno Kosuke Kato Mitsuru Higashimori Makoto Kaneko	Proceedings of Joint 3rd International Conference on Soft Computing and Intelligent Systems and 7th International Symposium on advanced Intelligent Systems, (2006) pp. 1514-1518

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B5 A comparative study on approximations of decision class and rule acquisition by rough sets model	Tatsuo Nishino Mitsuo Nagamachi Masatoshi Sakawa Kousuke Kato Hideo Tanaka	Kansei Engineering International, 5 , 4 (2006) pp. 51-60
B6 Approximate solution of reflecting Brownian motion using penalty method and numerical application to imperfect elastic barrier	Shuya Kanagawa Yasumasa Saisho Hiroaki Uesu	Dynamic Systems and Applications, 15 , 2 (2006) pp. 287-300
B7 Stochastic models describing human metabolism processes using stochastic differential equations	Toshihiko Kawamura Yasumasa Saisho	Stochastic Models, 22 , 2 (2006) pp. 273-287
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B10 Reliability evaluation of multi-component cold-standby redundant systems	Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	Applied Mathematics and Computation, 173 , 1 (2006) pp. 137-149
B11 Longest path analysis in networks of queues: dynamic scheduling problems	Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	European Journal of Operational Research, 174 , 1 (2006) pp. 132-149
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B14 Agent-based simulation for generalized matching pennies games	Ichiro Nishizaki Tsuyoshi Nakakura Tomohiro Hayashida	Proceedings of SCIS & ISIS 2006, CD-ROM (2006) pp. 1530-1535
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B76 An electrophysiological model of chemotactic response in Paramecium	Akira Hirano Toshio Tsuji Noboru Takiguchi Hisao Ohtake	Proceedings of the 2006 IEEE International Conference on Systems, Man, and Cybernetics, (2006) pp. 3612-3617
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B78 Behavioral effects of radiation exposure on food-NaCl associative learning of <i>Caenorhabditis elegans</i>	Tetsuya Sakashita Daisuke D. Ikeda Nobuyuki Hamada Michiyo Suzuki Toshio Tsuji Seiichi Wada Tomoo Funayama Yasuhiko Kobayashi	20th IUBMB International Congress of Biochemistry and Molecular Biology and 11th FAOBMB Congress, (2006) pp. 142-142
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B87 Torque Pattern Generation Towards the Maximum Jump Height	Mitsuru Higashimori Manabu Harada Idaku Ishii Makoto Kaneko	Proc. the IEEE Int. Conf. on Robotics and Automation, (2006) pp. 1096-1101
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C2 An Energy Efficient Leader Election Protocol for Radio Network with a Single Transceiver	Jacir L. Bordim Yasuaki Ito Koji Nakano	IEICE Trans. on Fundamentals, E89-A , 5 (2006) pp. 1355-1361
C3 Efficient Hardware Algorithm for N Choose K Counters	Yasuaki Ito Koji Nakano Youhei Yamagishi	Proc. of Workshop on Advances in Parallel and Distributed Computational Models (CD-ROM of International Parallel and Distributed Processing Symposium), (2006)
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C5 A Generic Solver based on Functional Parallelism for Solving Combinatorial Optimization Problems	Shigeaki Tagashira Masaya Mito Satoshi Fujita	IEICE Transaction on Information and Systems, E89-D , 6 (2006) pp. 1940-1947
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C7 A Localization Scheme for Sensor Networks Based on Wireless Communication with Anchor Groups	Hiroyuki Ochi Shigeaki Tagashira Satoshi Fujita	IEICE Transaction on Information and Systems, E89-D , 5 (2006) pp. 1614-1621
C8 Proxy-based Index Caching for Content-addressable networks	Shigeaki Tagashira Syuhei Shirakawa Satoshi Fujita	IEICE Transaction on Information and Systems, E89-D , 2 (2006) pp. 555-562
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C11 Efficient Support of Conjunctive Queries in P2P DHT by using Bloom Filter,	Koji Kobatake Shigeaki Tagashira Satoshi Fujita	Proc. The 18th IASTED Int'l Conf. on Parallel and Distributed Computing and Systems (PDCS' 2006), (2006) pp. 202-207
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C29 Visualizing Errors and its Evaluation	Hidenobu Kunichika Tsukasa Hirashima Akira Takeuchi	ITS2006, (2006) pp. 744-746
C30 Virtual Experimental Environment to Support Learning by Designing Physics Experiment	Takahito Toumoto Tomoya Horiguchi Tsukasa Hirashim Akira Takeuchi	ED-MEDIA2006, (2006)

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C32 Property Exchange Method for Automatic Generation of Computer-Based Learning Games	Takanobu Umetsu Tsukasa Hirashima Akira Takeuchi	ICCE2006, (2006)
C33 Visualizing Errors for Self-correcting Discrepancy between Thinking and Writing	Hidenobu Kunichika Tsukasa Hirashima Akira Takeuchi	ICCE2006, (2006)
C34 A Computer-Based Environment for Learning by Problem-Posing as Sentence-Integration	Tsukasa Hirashima Takuro Yokoyama Masahiko Okamoto Akira Takeuchi	ICCE2006, (2006)
C35 Practical Evaluation of Concept Mapping Software for Reconstructing Learning Process : Analysis of the Learners' Conceptual Understanding	Akiko Deguchi Shigenori Inagaki Etsuji Yamaguchi Hideo Funaoui	Paper presented at the meeting of the National Association for Research in Science Teaching (CD-ROM), (2006)
C36 Situated Evaluation of Concept Mapping Software with Bookmarking Function for Supporting Reflection and Dialogue: Interaction Analysis of Collaborative Learning Processes	Akiko Deguchi Shigenori Inagaki Etsuji Yamaguchi Hideo Funaoui	Proceedings of World Conference on Educational Multimedia, Hypermedia & Telecommunications 2006, (2006) pp. 2111-2118
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C74 A Learning Method based on Hopfield Neural Network and its Application in Point-feature Labeling Placement Problem	Zheng He Koichi Harada	IJCSNS Int. Jour. Compt. Sci. and Network Security, 6 , 3A (2006) pp. 10-16
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C84 A Performance Evaluation of Connected Component Labeling Algorithms of Grayscale Digital Mammograms	Roshan D Yapa Koichi Harada	Proc. Int. Inform. Tech. Conf., (2006) pp. 254
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C86 Computer-aided system for measuring the mandibular cortical width on dental panoramic radiographs in identifying postmenopausal women with low bone mineral density	Agus Zainal Arifin Akira Asano Akira Taguchi Takashi Nakamoto Masahiko Ohtsuka Mikio Tsuda Yoshiki Kudo Keiji Tanimoto	Osteoporosis International, 17 , 5 (2006) pp. 753-759
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C89 Analysis and evaluation of visual identification of texture using image processing methods	Chie Muraki Asano Akira Asano Mitsuji Muneyasu Takako Fujimoto	Proc. Joint 3rd International Conference on Soft Computing and Intelligent Systems and 7th International Symposium on advanced Intelligent Systems (SCIS & ISIS 2006), (2006) pp. 1789-1793
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C95 Observer performance in identifying postmenopausal women with osteoporosis by dental panoramic radiographs: Results from the Osteoporosis Screening Project in Dentistry (OSPD)	Akira Taguchi Akira Asano Masahiko Ohtsuka Takashi Nakamoto Yoshikazu Suei Mikio Tsuda Yoshiki Kudo	Proc. Sixth European Congress on Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ECCEO6); Osteoporosis International, 17, supp. 1 (2006) pp. 127
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C97 GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolutions R(00,10,01,20,02 — Ω) and R(00,10,01,20,11 — Ω) with $2 \leq m_1, m_2 \leq 4$	Masahide Kuwada Shujie Lu Yoshifumi Hyodo Eiji Taniguchi	Journal of the Japan Statistical Society, 36, 2 (2006) pp. 237-259
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D3 A Flame Spray Pyrolysis Process for Preparing Red-Emitting, Submicron-Sized Luminescent Strontium Titanate Particles	H. K. Chang I. W. Lenggoro K. Okuyama H. D. Jang	Jpn. J. Appl. Phys. Part 1, 45 , 2A (2006) pp. 967-973
D4 Effects of Ethanol Addition and Ba/Ti Ratios on Preparation of Barium Titanate Nanocrystals via a Spray Pyrolysis Method	W. N. Wang I. W. Lenggoro K. Okuyama Y. Terashi Y. C. Wang	J. Am. Ceram. Soc., 89 , 3 (2006) pp. 888-893
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D6 Evaporative Cooling of Micron-sized Droplets in a Low-Pressure Aerosol Reactor	S. P. Fisenko W. N. Wang I. W. Lenggoro K. Okuyama	Chem. Eng. Sci., 61 , 18 (2006) pp. 6029-6034
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D8 Filtration Efficiency of a Fibrous Filter for Nanoparticles	C. S. Kim L. Bao K. Okuyama M. Shimada H. Niinuma	J. Nanoparticle Res., 8 , 2 (2006) pp. 215-221
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D25 A bimodal catalytic membrane having a porous hydrogen-permselective silica layer and a bimodal catalytic support: Preparation and its application to steam reforming of methane	Toshinori Tsuru Hiroaki Shintani Tomohisa Yoshioka Masashi Asaeda	Applied Catalysis A: General, 302 (2006) pp. 78-85
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D30 Effect of blade rotation on particle classification performance of hydro-cyclones	Hideto Yoshida Yumi Norimoto Kunihiro Fukui	Powder Technology, 164 (2006) pp. 103-110
D31 Phillipsite Synthesis from Fly Ash Prepared by Hydrothermal Treatment with Microwave Heating	Kunihiro Fukui Kazuhiro Arai Keiji Kanayama Hideto Yoshida	Advanced Powder Technology, 17 , 4 (2006)
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D42 Fermi surface of the organic superconductor (MDT-ST)(I3)0.417 reconstructed by incommensurate potential	T. Kawamoto T. Mori K. Enomoto T. Konoike T. Terashima S. Uji A. Takamori K. Takimiya T. Otsubo	Phys. Rev. B, 73 , 024503 (2006)
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D45 Synthesis and Properties of Ethylenethiotetraselenafulvalene (ET-TSF) and Its conductive Radical Cation Salts	K. Takimiya M. Kodani S. Murakami T. Otsubo Y. Aso	Heterocycles, 67 , 2 (2006) pp. 655-663

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E5 Distribution of Chloride Ion in Cracked Reinforced Concrete Prism Transported by Cyclic Rain with Chloride Ion	Ippei Maruyama Kazuyuki Tanaka Ryoichi Sato	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2006) pp. 60-67
E6 Serviceability Performance of RC Flexural Members Improved by Using Low Shrinkage-High Strength Concrete	Makoto Tanimura Masahiro Suzuki Ryoichi Sato	Proceedings of the 2nd ACF International Conference on Recent Development of Concrete Technology and Structures, Bali, Indonesia, (2006) pp. HSP-39-HSP-52
E7 Application of Numerical Analysis for Deterioration of Erosion Depth of Mortar Specimens Exposed to Flowing Sulfuric Acid	Kenji Kawai Takeo Ishida Tatsuo Shinmi	Proceedings of Seventh CAN-MET/ACI International Conference on Durability of Concrete, Supplementary Papers, Montreal, Canada, (2006) pp. 511-525
E8 Case Studies on Environmental Design of Concrete Structures	Kenji Kawai Takafumi Sugiyama Koichi Kobayashi Susumu Sano	Proceedings of The Second fib Congress, Naples, 12p. (in CD-ROM), (2006)
E9 Effects of the Flow of Fluid on Concrete Deterioration Caused by Sulfuric Acid Attack	Kenji Kawai	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2006) pp. 51-60
E10 Case Studies on Environmental Impact Assessment of Precast Concrete Products with a Revegetation Function	Akihiro Fujiki Kenji Kawai	Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2006) pp. 233-238
E11 Inventory Data Related to Life Cycle of Reinforced Concrete Structures	Kenji Kawai Takafumi Sugiyama Koichi Kobayashi Susumu Sano	Proceedings of the 2nd ACF International Conference, Bali, (2006) pp. DSC-10-DSC-20
E12 Experimental Study on Decomposition Processes of Friedel's Salt due to Carbonation	Takeo Ishida Kenji Kawai Ryoichi Sato	Proceedings of International RILEM-JCI Seminar on Concrete Durability and Service Life Planning, ConcreteLife'06, Dead Sea, Israel, (2006) pp. 51-58
E13 Fundamental Study on Dissolution Rate of Carbon Dioxide Gas in High pH Solution	Takeo Ishida Kenji Kawai Ryoichi Sato	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2006) pp. 23-30
E14 Study on Decomposition of Cement Hydrates due to Carbonation	Takeo Ishida Kenji Kawai Ryoichi Sato	Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2006) pp. 43-50

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E15 Searching of the Collapse Modes and Paths for Smart Structures	Ichiro ARIO Piotr Pawlowski Jan Holnicki-Szulc	PROCEEDINGS OF COMPUTATIONAL ENGINEERING CONFERENCE OF JSCES, 11 (2006)
E16 POST-BUCKLING ANALYSIS OF THE HIGH-SYMMETRIC CAGE STRUCTURES	Ichiro Ario	INTERNATIONAL WORKSHOP ON COMPUTATIONAL MORPHOGENESIS, (2006)
E17 Dynamic Folding Analysis for Multi-Folding Structures under Impact Loadings	Ichiro Ario Andrew Watson	INTERNATIONAL CONFERENCE on VIBRO-IMPACT SYSTEMS, 1 (2006)
E18 Structural Stability of Multi-Folding Structures with Contact Problem	I. Ario A. Watson P. Pawlowski J. Holnicki	Proceedings of EUROMECH Colloquium 484, (2006)
E19 DYNAMIC ANALYSIS OF FOLDING PATTERNS FOR MULTI-FOLDING STRUCTURES	I. Ario P. Pawlowski J. Holnicki	Proceedings of European Conference on Computational Mechanics, 3 (2006)
E20 A Numerical Simulation of Local Strong Winds and Torrential Rains Affected by Geography	H. Nakamura K. Fujii I. Suizu	The International Symposium on Management System for Disaster Prevention, (2006) pp. CD-ROM
E21 Strength Prediction of Corroded Steel Member Deteriorated by Corrosion	O. Yamamoto K. Fujii H. Nakamura	The International Symposium on Management System for Disaster Prevention, (2006) pp. CD-ROM
E22 The Analytical Study on Bending Strength of Corroded Plate Girder	T. Kaita K. Tagaya H. Isami K. Fujii H. Kuboura	The International Symposium on Management System for Disaster Prevention, (2006) pp. CD-ROM
E23 Numerical and Experimental Studies on Active Control of Structures Using Hyper Vision Technology	J. Motoyama T. Nakayama H. Nakamura T. Tsuji I. Ishii	Proc. of International Conference on Civil and Environmental Engineering, (2006)
E24 Seismic Response Characteristics of a Multi-Span Continuous Rigid Frame Bridge Constructed on Soft Ground	K. Kinoshita Y. Fujiwara H. Nakamura	Proc. of International Conference on Civil and Environmental Engineering, (2006)
E25 Ultimate Behavior of Double-lined Perforated Rib Shear Connector	Y. Himukai K. Fujii H. Nakamura Y. Doukan	Proc. of International Conference on Civil and Environmental Engineering, (2006) pp. 275-280
E26 Experiments on the Ultimate Bending Strength of Corroded Thin Cylindrical Shells	K. Hashimoto K. H. Nakamura H. Fujii K. T. Kondoh	Proc. of International Conference on Civil and Environmental Engineering, (2006) pp. 263-268
E27 Ultimate Bending Strength of Plate Girder with Thick Flange	M. Irikawa K. Fujii Y. Ogawa H. Nakamura	Proc. of International Conference on Civil and Environmental Engineering, (2006) pp. 257-262
E28 Numerical methods for estimating retrofit effect of SG-Wall method	Mitsuharu Fukuda GuanLin Ye Koji Ichii Jyunichi Hironaka Yoshihisa Takaba	Proceedings of the 8th International Conference on Geosynthetics (8ICG), (2006) pp. 1371-1374
E29 Geosynthetics reinforcement for marine structure with soil stabilization	Yoshihisa Miyata Koji Ichii Yoshi Suzuki Takao Hirai Hideto Terakawa	Proceedings of the 8th International Conference on Geosynthetics (8ICG), (2006) pp. 883-886

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E31 SG-WALL: A NEW ATTEMPT OF A QUAY-WALL EXTENSION USING DREDGED MATERIAL	Koji Ichii Jyunichi Hironaka Yasuhisa Takaba Mitsuharu Fukuda	31st PIANC Congress CD-ROM, (2006)
E32 Upward movement of fines in sand under one-dimensional water pressure change	Tsuchida, T Yoshimuta, S. Asa-umi, R	Proceedings of International Conference on International Symposium, (2006)
E33 Investigation of Spacial Variability of Natural Masado Slopes	Athapaththu A.M.R.G Takashi Tsuchida Kazuaki Suga Takashi Sato	Proceedings of the 17th International Offshore (Ocean) and Polar Engineering Conference, (2006)
E34 A Study on Computation of Seismic Permanent Displacement of Embankments considering Horizontal and Vertical Seismic Motion	Yoshiya Hata Norihiro Yamashita Seiji Kano Takashi Tsuchida	First European Conference on Earthquake Engineering and Seismology, (2006)
E35 Evaluating the Inefficiency of Household Car Use Behavior Based on a Stochastic Frontier Model	Masashi Kuwano Akimasa Fujiwara Junyi Zhang	Proceedings of International Conference of Civil and Environmental Engineering , (2006) pp. 217-226
E36 Evaluating efficiency of household vehicle use	Masashi Kuwano Akimasa Fujiwara Junyi Zhang Backjin Lee	Proceedings of ICTTS 2002, Edited by B. Mao, Z. Tian, Z. Gao and H. Huang, Science Press, (2006) pp. 268-277
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E38 ransit-oriented development and its application in GuiYang,	Q. Fang Y. Sugie Z.Z. Yan J.Y. Zhang	Proceedings of ICTTS 2002, Edited by B. Mao, Z. Tian, Z. Gao and H. Huang, Science Press, (2006) pp. 246-255
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E40 Runoff and loads of nutrients and heavy metals from an urbanized area	H. Shirasuna T. Fukushima K. Matsushige A. Imai N. Ozaki	Water Science & Technology, 53 , 2 (2006) pp. 203-213
E41 Community structure, abundance, and in situ activity of nitrifying bacteria in river sediments as determined by the combined use of molecular techniques and microelectrodes.	Yoshiyuki Nakamura Hisashi Satoh Tomonori Kindaichi Satoshi Okabe	Environmental Science & Technology, 40 , 5 (2006) pp. 1532-1539
E42 Community structures and activities of nitrifying and denitrifying bacteria in industrial wastewater-treating biofilms.	Hisashi Satoh Takeshi Yamakawa Tomonori Kindaichi Tsukasa Ito Satoshi Okabe	Biotechnology and Bioengineering, 94 , 4 (2006) pp. 762-772
E43 Population dynamics and in situ kinetics of nitrifying bacteria in autotrophic nitrifying biofilms as determined by real-time quantitative PCR.	Tomonori Kindaichi Yoshiko Kawano Tsukasa Ito Hisashi Satoh Satoshi Okabe	Biotechnology and Bioengineering, 94 , 6 (2006) pp. 1111-1121
E44 Analysis of bacterial community structure of rising sludge in a wastewater treatment plant.	Hiroshi Kajihara Tomonori Kindaichi Noriatsu Ozaki	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2006, (2006) pp. 317-322

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E46 Development of a super high-rate ANAMMOX reactor and in situ analysis of biofilm structure and function.	Ikuo Tsushima Yuji Ogasawara Masaki Shimokawa Tomonori Kindaichi Satoshi Okabe	Proceedings of IWA international conference Biofilm Systems IV in Amsterdam., (2006) pp. 29-38
E47 Estimation of the emission factors of PAHs by the traffic activities with the model of atmospheric dispersion and deposition from heavy traffic road.	Noriatsu Ozaki Hiroki Tokumitsu Keisuke Kojima Tomonori Kindaichi	Proceedings of 10th International Conference Diffuse/Nonpoint Pollution and Watershed Management in Istanbul, (2006)
E48 Microbial community structure in a super high-rate ANAMMOX biofilm.	Tomonori Kindaichi Ikuo Tsushima Noriatsu Ozaki Satoshi Okabe	Proceedings of ISME 11th international symposium on microbial ecology in Vienna., (2006)
E49 A high-resolution finite-volume approach for shallow water flows with complex geometries based on a conservative CIP scheme	Tatsuhiko UCHIDA	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2006, (2006) pp. 121-130
E50 Numerical simulation of inundation in Takahara City due to storm surge	Yasushi ITO Yukihiro KINASHI Tatsuhiko UCHIDA Yoshihisa KAWAHARA	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2006, (2006) pp. 281-286
E51 Flood flow structure during rising and falling stages in a compound meandering channel	Yu MORISHITA Tatsuhiko UCHIDA Yoshihisa KAWAHARA Akihide WATANABE	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2006, (2006) pp. 287-292
E52 A CIP-based method for shallow water flows in complex geometries using Cartesian grids	Tatsuhiko UCHIDA	7th International Conference on Hydroscience and Engineering (ICHE-2006), (2006)
E53 Influence of tidal range and river discharge on transport of suspended sediment in the Ohta flood-way	Kiyosi Kawanisi Takanori Tsutsui Satoshi Nakamura Hitoshi Nishimaki	Journal of Hydroscience and Hydraulic Engineering, 24 , 1 (2006) pp. 1-9
E54 Variability of tidal current, density stratification and tidal flat sediment in a tidal river	Kiyosi Kawanisi	Environmental Problems in Coastal Regions, 6 (2006) pp. 129-138
E55 Settling and Reproduction of Floating Mud on the Sea Bottom	Tadashi Hibino Ryoji Takamido Hideo Matsumoto	ICCEE-2006(30th International Conference on Coastal Engineering), (2006)
E56 The characteristics of tidal wave propagation in the Ota River and the coastal aquifer	Katsuaki Komai Seiji Hanabata	The Proceedings of International Conference on Civil and Environmental Engineering, (2006) pp. 183-192
E57 Generation and propagation forecast of storm surge in the Seto Inland Sea	Katsuaki Komai Tadashi Hibino Hideo Matsumoto	30th International Conference on Coastal Engineering, (2006)
E58 Characteristics of suspended sediment transport and variability of tidal flat sediment in a tidal river	Kiyoshi Kawanishi Takanori Tsutsui	30th International Conference on Coastal Engineering, (2006)
E59 Effects of tidal range and river discharge on stability and transport of suspended sediment in the ohta flood-way	Daishi Araki Kiyosi Kawanisi	ICCEE 2006, (2006) pp. 305-310
E60 Measurement of concentration and size of suspended sediment using an acoustic Doppler velocimeter	Nozomu Inada Kiyosi Kawanisi	ICCEE 2006, (2006) pp. 311-315
E61 Modeling of Intertidal Flow and Geomorphology Using N+2-Field Model	Toshiyuki Takahashi Hiroshi Arai Hidemi Mitsuda Yasuaki Doi	The 7th Int. Conf. on Hydroscience and Engineering, (2006)

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E63 HIGH PERFORMANCE COMPUTATION OF UNSTEADYFLOW AROUND A FORMULA CAR USING LARGE-SCALE LES ON EARTH SIMULATOR	Makoto Tsubokura Toshio Kobayashi Nobuyuki Oshima Kozo Kitoh Huilai Zhang Keiji Onishi Takuji Tominaga (Nakashima)	Proceedings of the 12th International Symposium on Flow Visualization, (2006)
E64 Estimation of ultimate strength of continuous stiffened panel under combined transverse thrust and lateral pressure Part 1: Continuous plate	Masahiko Fujikubo Tetsuya Yao Mohammad Reza Khedmati Minoru Harada Daisuke Yanagihara	Marine Structures, 18 (2006) pp. 383-410
E65 Estimation of ultimate strength of continuous stiffened panel under combined transverse thrust and lateral pressure Part 2: Continuous stiffened panel	Masahiko Fujikubo Tetsuya Yao Mohammad Reza Khedmati Minoru Harada Daisuke Yanagihara	Marine Structures, 18 (2006) pp. 411-427
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E67 Evaluation of the Residual Strength of Corroded Steel Tubular Members in Marine Environment	Makoto Yamane Kimiharu Tanaka Baku Matsuda Masahiko Fujikubo Daisuke Yanagihara Naoki Iwao	Proc. of the Sixteenth Int. Offshore and Polar Engineering Conference, (2006)
E68 Development of ISUM Element for Rectangular Plate with Cutout	Kinya Ishibashi Masahiko Fujikubo Tetsuya Yao	Proc. of the Sixteenth Int. Offshore and Polar Engineering Conference, (2006)
E69 Quasi-Static Collapse Analysis of Plates by Explicit Dynamic Method	Shigenobu Okazawa Masahiko Fujikubo Yoshiaki Hase	Proc. of Asian Technical Exchange and Advisory Meeting on Marine Structure, 12 (2006) pp. 41-46
E70 Collapse Analysis of Ship's Hull Girder under Longitudinal Bending by Parallel Finite Element Method	Takahiro Kaida Daisuke Yanagihara Go Maeta Masahiko Fujikubo	Proc. of Asian Technical Exchange and Advisory Meeting on Marine Structure, 12 (2006) pp. 47-54
E71 Strength of Corroded Steel Tubular Member in Marine Environments	Baku Matsuda Makoto Yamane Masahiko Fujikubo Daisuke Yanagihara,	Proc. of Asian Technical Exchange and Advisory Meeting on Marine Structure, 12 (2006) pp. 55-62
E72 Thermo-elastic-viscoplastic Analysis for Evaluation of Hot Crack Susceptibility in Laser Welding	Moustafa Hassan Mitsuru Kitamura Motomochi Yamamoto	Proceedings of TEAM 2006, 20 (2006) pp. 337-344
E73 Optimization System for Ship Assembling Hierarchy Using Genetic Algorithm and Product Model	Wibisono M. Arif Hamada Kunihiro Mitsuru Kitamura	Proceedings of TEAM 2006, 20 (2006) pp. 220-227
E74 Shoes insole sensor using piezoelectric film	Setyanto, T.A. Amano, K. Fujimoto, Y. Watanabe, K. Hoshino,	Proc. of The Welfare Engineering Symposium, JSME, No.06-41 (2006) pp. 122-125

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E75 Coupled Vibration analysis of magnetizable plate in magnetic field using magnetic moment method	Yoshikazu Tanaka kouji Okamoto Yukio Fujimoto	Book of summaries of 7th international symposium on electric and magnetic fields, (2006) pp. 177-178
E76 Observation of corroded steel buildings standing near the sea	Kiichiro Sawada Akira Matsuo Masahiko Tanimoto Takao Takamatsu Hiroyuki Tamai Akio Nakayama	Fifth International Conference on BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, (2006) pp. 841-848
E77 A study on seismic performance of existing school gymnasiums which do not meet the present Japanese national seismic regulations	Akira Matsuo Akiko Horiguchi Kiichiro Sawada Sachi Murakami Takao Takamatsu Hiroyuki Tamai	Fifth International Conference on BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, (2006) pp. 869-876
E78 A SIMPLE ESTIMATION OF FABRICATION COST AND MINIMUM COST DESIGN FOR STEEL FRAMES	Kiichiro Sawada Hitoshi Shimizu Akira Matsuo Takaichi Sasaki Takashi Yasui Atsushi Namba	The Fourth China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, (2006) pp. 89-94
E79 A new attenuation relation for strong ground motion in Japan based on recorded data	Tatsuo Kanno Akira Narita Nobuyuki Morikawa Hiroyuki Fujiwara Yushimitsu Fukushima	Bulletin of the Seismological Society of America, 96 (2006) pp. 879-897
E80 Full Scale Tests for Existing Columns Reinforced with FRP	Hideo Araki Kenji Kabayama	Proceedings of the 2nd International Congress fib, (2006)
E81 Damping Characteristics of RC Columns Containing Coal Ash Subjected to Strong Motions	Kenji Kabayama Hideo Araki	Proceedings of the 2nd International Congress fib, (2006)
E82 Calculation Method for the Loads of Cold and Hot Water Consumption in Office Buildings based on the Simulation Technique	Saburo Murakawa Hiroshi Takata Kazuhiko, Sakamoto	Proceedings of the CIB- W62 International Symposium on Water Supply and Drainage for Buildings, (2006) pp. 1-14
E83 A Study on the Hot Water Consumption in a Hot Spa Facility	Naoki Yamamoto Saburo Murakawa Hiroshi Takata	Proceedings of the CIB- W62 International Symposium on Water Supply and Drainage for Buildings, (2006) pp. 1-10
E84 An Analysis of the Evaluation for the Improvement of Regional Landscapes Based on the Individual Characteristics	Hiroshi Oishi Saburo Murakawa Daisaku Nishina	Proceedings of the 7th International Symposium for Environment-Behavior Studies, (2006) pp. 76-84
E85 Comparative Analysis of the Reasons for Preference on River Landscapes among the Australian and Japanese Subjects	Daisaku Nishina Saburo Murakawa Hiroshi Oishi Takeshi Nitta	Proceedings of the 7th International Symposium for Environment-Behavior Studies, (2006) pp. 256-265
E86 Comparative Study on Fixation Behavior of River Landscape by Chinese, Japanese and European Testees	Hua Jin Zhuo Wang Saburo Murakawa Daisaku Nishina	Proceedings of the 7th International Symposium for Environment-Behavior Studies, (2006) pp. 272-277

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F2 Measurement and analysis of water adsorption in porous silica films	S. Kuroki T. Kikkawa	Journal of The Electrochemical Society, 153 , 8 (2006) pp. G759-G764
F3 Influence of CMP chemicals on the properties of porous silica low-k films	A. Ishikawa Y. Shishida T. Yamanishi N. Hata T. Nakayama N. Fujii H. Tanaka H. Matsuo K. Kinoshita T. Kikkawa	Journal of The Electrochemical Society, 153 , 7 (2006) pp. G692-G696
F4 Analysis of transmission characteristics of Gaussian monocycle pulses for silicon integrated antennas	K. Kimoto N. Sasaki P. K. Saha M. Nitta T. Kikkawa M. Sasaki	Japanese Journal of Applied Physics Part 1-Regular Papers Brief Communications & Review Papers, 45 , 4B (2006) pp. 3272-3278
F5 A 2.4 GHz differential wavelet generator in 0.18 μm complementary metal-oxide-semiconductor for 1.4 Gbps ultra-wideband impulse radio in wireless inter/intra-chip data communication	P. K. Saha N. Sasaki K. Kimoto T. Kikkawa	Japanese Journal of Applied Physics Part 1-Regular papers Brief Communications & Review Papers, 45 , 4B (2006) pp. 3279-3285
F6 Vapor phase reactions in polymerization plasma for divinylsiloxane-bis-benzocyclobutene film deposition	K. Kinoshita A. Nakano J. Kawahara N. Kunimi Y. Hayashi O. Kiso N. Saito K. Nakamura T. Kikkawa	Journal of Vacuum Science & Technology, A 24 , 6 (2006) pp. 2192-2198
F7 Plasma etch rates of porous silica low-k films with different dielectric constants	T. Ono H. Takahashi K. Kinoshita N. Fujii N. Hata T. Kikkawa	Japanese Journal of Applied Physics Part 1-Regular papers Brief Communications & Review Papers, 45 , 11 (2006) pp. 8873-8875
F8 Recovery from plasma-process-induced damage in porous silica low-k films by organosiloxane vapor annealing	T. Ono K. Kinoshita H. Takahashi N. Fujii Y. Sonoda Y. Oku K. Kohmura R. Yagi N. Hata T. Kikkawa	Japanese Journal of Applied Physics Part 1-Regular papers Brief Communications & Review Papers, 45 , 8A (2006) pp. 6231-6235

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F9 Signal transmission characteristics between Si chips with air gap using Si integrated dipole antennas	K. Kimoto T. Kikkawa	Japanese Journal of Applied Physics Part 1-Regular papers Brief Communications & Review Papers, 45 , 6A (2006) pp. 4968-4976
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F11 Pure-Silica Zeolite Films Prepared by a Vapor Phase Transport Method	Y. Cho K. Kohmura T. Kikkawa	Extended Abstracts of the 2006 International Conference on Solid State Devices and Materials, (2006) pp. 464-465
F12 Formation of Mesoporous Pure Silica Zeolite Film	T. Seo T. Yoshino N. Hata T. Kikkawa	Extended abstracts of the International Conference on Solid State Devices and Materials, (2006) pp. 462-463
F13 A Single-chip Gaussian Monocycle Pulse Transmitter using 0.18 μm CMOS Technology for Intra/Interchip UWB Communication	P. K. Saha N. Sasaki T. Kikkawa	2006 Symposium on VLSI circuits Digest of Technical Papers, (2006) pp. 252-253
F14 Analysis of Si Integrated Dipole Antennas for Ultrawideband Signal Transmission	K. Kimoto N. Sasaki P. K. Saha M. Nitta T. Kikkawa	Proc. of IEEE AP-S International Symposium with USNC/URSI National Radio Science and AMEREM Meetings, 5 (2006) pp. 4661-4664
F15 Influence of WLAN on Inter-chip UWB Signal Transmission with Si Integrated Antennas	M. Nitta K. Kimoto N. Sasaki T. Kikkawa	Proc. of IEEE AP-S International Symposium with USNC/URSI National Radio Science and AMEREM Meetings, 2 (2006) pp. 917-920
F16 Inter-chip Transmission Characteristics of Meander Dipole Antennas Integrated in 0.18 μm CMOS UWB Transceiver Chips	K. Kimoto N. Sasaki M. Nitta M. Fukuda T. Kikkawa	Ext. Abst. of the 2006 International Conference on Solid State Devices and Materials, (2006) pp. 66-67
F17 A Single-chip Ultra-Wideband Receiver using Silicon Integrated Antennas for Inter-chip Wireless Interconnection	N. Sasaki M. Fukuda M. Nitta K. Kimoto T. Kikkawa	Ext. Abst. of the 2006 International Conference on Solid State Devices and Materials, (2006) pp. 70-71
F18 A 0.18 μm CMOS Impulse Radio Based UWB Transmitter for Global Wireless Interconnections of 3D Stacked-Chip System	M. Fukuda P. K. Saha N. Sasaki T. Kikkawa	Ext. Abst. of the 2006 International Conference on Solid State Devices and Materials, (2006) pp. 72-73
F19 Effect of Frictional Force Vector on Delamination in Cu/Low-k Integration	H. Matsuo S. Kondou A. Ishikawa K. Fukaya N. Kobayashi T. Kikkawa	Materials for Advanced Metallization 2006, (2006) pp. 87-88
F20 Influence of Ultraviolet Irradiation on Porous Silica Low-k Dielectric Films	T. Nakayama N. Fujii H. Tanaka K. Takamura Y. Takasu Y. Seino N. Hata T. Kikkawa	Materials for Advanced Metallization 2006, (2006) pp. 191-192

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F21 Removal of etching/ashing residues and ashing/wet clean damage in porous silica low-k films	T. Yamanishi T. Ono K. Kohmura N. Fujii T. Nakayama H. Tanaka S. Chikaki T. Kikkawa	Materials for Advanced Metallization 2006, (2006) pp. 85
F22 Effect of Moisture Adsorption on the Properties of Porous Silica Ultralow-k Films	Y. Uchida S. Hishiya N. Fujii K. Takamura T. Nakayama H. Tanaka T. Kikkawa	Materials for Advanced Metallization 2006, (2006) pp. 77
F23 Plasma-enhanced polymerization thin film as a drift barrier for Cu interconnects	T. Yoshino J. Kawahara N. Hata Y. Shishida T. Kikkawa	Extended Abstracts of SSDM 2006, (2006) pp. 1038-1039
F24 Nondestructive characterization of dielectric stack structures with and without trench patterns by laser-pulse generated surface acoustic wave analysis	T. Takimura N. Hata Y. Shishida S. Chikaki T. Kikkawa	Extended Abstracts of SSDM 2006, (2006) pp. 1024-1025
F25 Nondestructive characterization of temperature-dependent backbone Si-O-Si structure in porous silica films by in-situ Fourier-transform infrared spectroscopy	S. Takada N. Hata X. Li N. Fujii T. Nakayama T. Kikkawa	Extended Abstracts of SSDM 2006, (2006) pp. 154-155
F26 The structural origin of Determining the coefficient of thermal expansion for porous silica low-k films	M. Yamaji N. Hata T. Nakayama Y. Shishida Y. Hyougou T. Kikkawa	Extended Abstracts of SSDM 2006, (2006) pp. 1010-1011
F27 Metal Gate Technology for 45nm and beyond	K. Shibahara	Proceedings of 2006 Int. Symp.on VLSI Technology, Systems, and Applications(VLSI-TSA 2006), (2006) pp. 105-106
F28 Mo Gate Deformation Induced by Laser Annealing Process	K. Shibahara A. Matsuno M. Hino K. Kurobe	Proceedings of 2006 Int. Symp.on VLSI Technology, Systems, and Applications(VLSI-TSA 2006), (2006) pp. 50-51
F29 Merits of Heat-assist for Melt Laser Annealing	K. Shibahara T. Eto K. Kurobe	IEEE Trans. Electron Devices, 53 , 5 (2006) pp. 1059-1064
F30 Xe Preamorphization Implantation for Transient Enhanced Diffusion Suppression of As in Ge Substrate	T. Fukunaga K. Hosawa T. Hosoi K. Shibahara	Ext. Abst. Int. Conf. on Solid State Devices and Materials(SSDM'06), (2006) pp. 452-453
F31 Pd ₂ Si Fully-Silicided Gate: Kinetics of Silicide Formation and Workfunction Tuning	T. Hosoi K. Sano K. Hosawa K. Shibahara	Ext. Abst. Int. Conf. on Solid State Devices and Materials(SSDM'06), (2006) pp. 218-219
F32 Effects of Pulse Duration on the Formation of Ultra Shallow Junction Formed by an Excimer Laser Anneal Method	A. Matsuno K. Shibahara	Jpn. J. of Appl. Phys., 45 , 11A (2006) pp. 8537-8541
F33 Fabrication of High-Density Diamond Nanotips by Electron Beam Lithography	T. Tabei T. Miyazaki Y. Nishibayashi S. Yokoyama	Jpn. J. Appl. Phys., 45 , 3A (2006) pp. 1771-1774

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F35 Structural and Optical Properties of Electro-Optic Material: Sputtered (Ba,Sr)TiO ₃	M. Suzuki Zhimou Xu Y. Tanushi S. Yokoyama	Jpn. J. Appl. Phys., 45 , 4B (2006) pp. 3488-3492
F36 Groove-Buried Optical Waveguides Based on Metal Organic Solution-Derived Ba _{0.7} Sr _{0.3} TiO ₃ Thin Films	Zhimou Xu M. Suzuki Y. Tanushi K. Wakushima S. Yokoyama	Jpn. J. Appl. Phys., 45 , 4B (2006) pp. 3482-3487
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