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CONTENTS

Published Papers	S 1
Published Books	S 50
Registered Patents	S 51

Contents

Published Papers	1
Mechanical System Engineering	1
Artificial Complex Systems Engineering	10
Information Engineering	17
Chemistry and Chemical Engineering	22
Social and Environmental Systems Engineering	34
Research Center for Nanodevices and Systems	43
Published Books	50
Registered Patents	51

Published Papers

A. Mechanical System Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A1 Effect of acoustic cavitation on ease of infiltration of molten aluminum alloys into carbon fiber using ultrasonic infiltration method	T. Matsunaga K. Ogata T. Hatayama K. Shinozaki M. Yoshida	Composites Part A, 38 (2007) pp. 771-778
A2 Wettability of basal and prismatic plane of graphite by molten aluminum - magnesium alloy	M. Yoshida T. Matsunaga K. Ogata T. Hatayama K. Shinozaki	Material Science Forum, 539-543 (2007)
A3 DEVELOPMENT OF AL/CU DISSIMILAR BRAZING JOINT CONTROLLED FORM OF INTERMETALLIC COMPOUND	K. Shinozaki K. Koyama	Material Science Forum, 539-543 (2007) pp. 4075-4080
A4 Cracking and Local Melting in Mg-alloy and Al-alloy during Friction Stir Spot Welding	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Proceedings of the 60th Annual, Assembly of International Institute of Welding (IIW), IIW-III-1429-07, (2007)
A5 Development of Ultra-High-Speed GTA Welding Process Using Pulse-Heated Hot-Wire	M. Yamamoto K. Shinozaki T. Myoga T. Kanazawa H. Arashin	Proceedings of the 60th Annual, Assembly of International Institute of Welding (IIW), IIW-XII-1927-07, (2007)
A6 Cracking in the stir zones of Mg alloy friction stir spot welds	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Journal of Materials Science, 42 , 18 (2007) pp. 7657-7666
A7 Mechanism of cracking in AZ91 friction stir spot welds	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Science and Technology of Welding and Joining, 12 , 3 (2007) pp. 208-216
A8 Formation and retention of local melted films in AZ91 friction stir spot welds	P. Su A. Gerlich M. Yamamoto T.H. North	Journal of Materials Science, 42 , 24 (2007) pp. 9954-9965
A9 Effect of welding parameters on the strain rate and microstructure of friction stir spot welded 2024 aluminum alloy	A. Gerlich P. Su M. Yamamoto T.H. North	Journal of Materials Science, 42 , 14 (2007) pp. 5589-5601
A10 Strain Rates and Grain Growth in Al 5754 and Al 6061 Friction Stir Spot Welds	A. Gerlich M. Yamamoto T.H. North	Metallurgical and Materials Transactions A, 38 , 6 (2007) pp. 1291-1302
A11 Eutectic Segregation and Cracking in AZ91 Friction Stir Spot Welds	M. Yamamoto P. Su A. Gerlich T.H. North	SAE Technical Series, SAE-2007-01-1700, (2007)
A12 Local melting and cracking in Al 7075-T6 and Al 2024-T3 friction stir spot welds	A. Gerlich M. Yamamoto T.H. North	Science and Technology of Welding and Joining, 12 , 6 (2007) pp. 472-480
A13 Cracking in Mg-alloy Friction Stir Spot Welding	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Proceedings of UIIW (University-Industry International Workshop) - Frontiers of Science & Technology of Welding- (Nantes, France), (2007)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A14 Liquid Penetration Induced Cracking in Mg-alloy Spot Welds	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Abstract Book of International Welding Joining Conference-Korea 2007, (2007) pp. 242-243
A15 Development of Evaluation Method for Solidification Cracking Susceptibility of Inconel600/SUS347 Dissimilar Laser Weld Metal by In-situ Obsevation	K. Shinozaki M. Yamamoto A. Kawasaki T. Tamura P. Wen	Abstract Book of International Welding Joining Conference-Korea 2007, (2007) pp. 20-21
A16 Impact and hot corrosion properties of levitation-melted NiAl polycrystals with different purity	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa	Materials Transactions, 48 , 2 (2007) pp. 195-204
A17 Effects of Ca addition on solidification structure of Cu-Sn-Zn bronze castings	Kazuhiro Matsugi Takayuki Hino Gen Sasaki Osamu Yanagisawa Minoru Kidani	Materials Transactions, 48 , 4 (2007) pp. 799-806
A18 Preparation of Ti matrix composites of Ti-B-C-N systems by spark sintering and their friction and wear characteristics	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa Dongchun Li Hideaki Kuramoto Takashi Oki	Materials Transactions, 48 , 5 (2007) pp. 1042-1049
A19 Electrical and thermal characteristics of Pb-Free Sn-Zn alloys for an AC-Low voltage fuse element	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa Yasuo Kumagai Koji Fujii	Materials Transactions, 48 , 5 (2007) pp. 1105-1112
A20 Surface treatment of Al18B4O33 whisker and development of Al18B4O33/ZK60 magnesium alloy matrix composite	Gen Sasaki Wenguang Wang Yusuke Hasegawa Yong Bum Choi Nobuyuki Fuyama Kazuhiro Matsugi Osamu Yanagisawa	J. Materials Processing Technology, 187-188 , 6 (2007) pp. 429-432
A21 Influence of preform preparation condition on infiltration of molten aluminum	Takasi Yamanaka Yong Bum Choi Kazuhiro Matsugi Osamu Yanagisawa Gen Sasaki	J. Materials Processing Technology, 187-188 , 6 (2007) pp. 530-532
A22 Interfacial reaction in AZ91D magnesium alloy matrix composite reinforced with aluminum borate whisker	Wen Guang Wang Kazuhiro Matsugi Hiroshi Fukushima Gen Sasaki	Materials Transactions, 48 , 7 (2007) pp. 1948-1954
A23 Electrical Conductivity of VGCF / Aluminum Composites Fabricated by Electro Spark Sintering	Gen Sasaki Fumiaki. Kondo Kazuhiro Matsugi Osamu Yanagisawa	Materials Science Forum, 561-565 , 11 (2007) pp. 729-732
A24 Low Pressure Infiltration of Molten Aluminum Alloy to Metal Fiber Preform	Gen Sasaki Yong Bun Choi Kazuhiro Matsugi Naoki Sorita Shunsaku Kondoh Osamu Yanagisawa	Materials Science Forum, 539-543 (2007) pp. 769-772
A25 Nanostructured gamma-alumina formed during anodic bonding of Al/Glass	Qing Feng Xing Gen Sasaki	Solid State Ionics, 178 , 3-4 (2007) pp. 179-185
A26 Mechanical Properties of Fe Based Fiber / Aluminum Alloy Composites Fabricated by Low-Pressure infiltration	Gen Sasaki Yong Bum Choi Kazuhiro Matsugi Kazushi Arita Toshio Fujii Osamu Yanagisawa	CD-ROM Proc. of ICCM-16, (2007) pp. MoHA1-05ge_sasakig224835p

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A27 Effect of Aging Behavior on Mechanical Properties of AZ91D/ Al18B4O33 Whisker Composites Fabricated by Squeeze Casting	Kouji Maruo Wen Guang Wang Nobuyuki Fuyama Kazuhiro Matsugi Gen Sasaki	CD-ROM Proc. of ICCM-16, (2007) pp. FrJM1-07ge_maruok224374p
A28 Effect of electrical potential to aluminum coated ionic conductor glass on interfacial phenomena	Akihisa Fujita Kazuhiro Matsugi Gen Sasaki	Proc. of Japan International SAMPE Symposium & Exhibition, (2007) pp. MCCHA_2_2
A29 Infiltration Behavior of Molten Aluminum Alloy to Porous Preform by Low Pressure	Gen Sasaki Takashi Yamanaka Yongbum Choi Kazuhiro Matsugi	Proc. of Japan International SAMPE Symposium & Exhibition, (2007) pp. MCCHA_2_3
A30 Compaction of ultra-fine WC powder by high-speed centrifugal compaction process	Hiroyuki Y. Suzuki Y. Kadono H. Kuroki	Mater. Sci. Forum, 534-536 (2007) pp. 249-252
A31 Flow pattern in green bodies made by high-speed centrifugal compaction process	Hiroyuki Y. Suzuki K. Urabe T. Takano H. Kuroki	Mater. Sci. Forum, 534-536 (2007) pp. 285-288
A32 Coarse Columnar Structure of Transformation-grown Ferrite and Very Low Carbon Content in Pure Iron of Armco Type	Hiidenori Kuroki Hiroyuki Y. Suzuki	Steel Research int., 78 , 7 (2007) pp. 572-573
A33 Effect of Spatial Distribution of SiC Particles on the Tensile Deformation Behavior of Al-10 vol%SiC Composites	Di Zhang Kenjiro Sugio Kazuyuki Sakai Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 48 , 2 (2007) pp. 171-177
A34 Evaluating Spatial Distribution Randomness of Overlap Permissive Second Phase in Three- and Two-dimensions	Kenjiro Sugio Yasutaka Momota Di Zhang Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 48 , 10 (2007) pp. 2762-2767
A35 Statistical Relationship between Three- and Two-Dimensional Spatial Distribution of Dispersed Phase	Kenjiro Sugio Yasutaka Momota Di Zhang Hiroshi Fukushima Osamu Yanagisawa	Materials Transactions, 48 , 10 (2007) pp. 2768-2777
A36 Determination of the ν_e and total ^8B solar neutrino fluxes with the Sudbury Neutrino Observatory Phase I data set	B. Aharmim Ryuta Hazama et al.	Physical Review, C, 75 (2007) pp. 045502-1-045502-69
A37 An array of low-background ^3He proportional counters for the Sudbury Neutrino Observatory	J. F. Amsbaugh Ryuta Hazama et al.	Nuclear Instruments and Methods in Physics Research, A, 579 (2007) pp. 1054-1080
A38 Multilayer Scintillator Responses for Mo Observatory of Neutrino Experiment Studied Using a Prototype Detector MOON-1	H. Nakamura Ryuta Hazama et al.	Journal of the Physical Society of Japan, 76 , 11 (2007) pp. 114201-1-114201-9
A39 Toward a multilateral linkage by "INTENG" network system	Ryuta Hazama Yasuhide Ito	Proceedings of 2007 JSEE Annual Conference, (2007) pp. 72-75
A40 Selective Synthesis of Single-walled Carbon Nanotubes by Blending Catalysts	Shuhei Inoue Takeshi Nakajima Kazuya Nomura Yoshihiro Kikuchi	Proc. of ASME-JSME Thermal Engineering Summer Heat Transfer Conference, (2007)
A41 Influence of the Catalyst Supporters upon the Catalyst Nano Particle for Synthesizing Single-walled Carbon Nanotubes	Shuhei Inoue Kazuya Nomura Yukihiko Matsumura	Proc. European Nano System 2007, (2007) pp. 33-37
A42 Homogeneous-Dilution Model of Partially Fueled Simplified Pulse Detonation Engines	Takuma Endo Tomoaki Yatsufusa Shiro Taki Akiko Matsuo Kazuaki Inaba Jiro Kasahara	Journal of Propulsion and Power, 23 , 5 (2007) pp. 1033-1041

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A43 Experiments on Water-Cooled Single-Tube Pulse Detonation Turbine Engine	Takuma Endo Takeshi Ofuka Akira Ochi Naoya Takaki Shintaro Onishi Tomoaki Yatsufusa Shiro Taki Seigo Kurachi Yoshito Umeda	Proceedings of the 6th Asia-Pacific Conference on Combustion, (2007) pp. 577-580
A44 Detonation Initiation in Tube by Coaxial Predetonator	Hirokazu Nishimura Takuya Matsumura Yutaka Koga Tomoaki Yatsufusa Takuma Endo Shiro Taki	Proceedings of the 21st International Colloquium on the Dynamics of Explosions and Reactive Systems, (2007)
A45 Generation of Quasi-Planar Laser-Driven Detonations	Takuma Endo Tomoaki Kitabatake Hiroyuki Shiraga Keisuke Shigemori	Proceedings of the 21st International Colloquium on the Dynamics of Explosions and Reactive Systems, (2007)
A46 Multi-Cycle Experiments on Multi-Tube Pulse Detonation Engine	Hisato Muro Taro Hino Ryo Hamazoe Mio Takemoto Hironobu Yamazumi Tomoaki Yatsufusa Takuma Endo Shiro Taki	The 7th International Symposium on Special Topics in Chemical Propulsion, (2007)
A47 Rapidly-Mixed Combustion in a Tubular Flame Burner	Satoru Ishizuka Tetuya Motodamari Daisuke Shimokuri	Proceedings of the Combustion Institute, 31 (2007) pp. 1085-1092
A48 The Effects of Rotation on the Characteristics of Premixed Propane/Air Swirling Tubular Flames	Yuyin Zhang Satoru Ishizuka Huayang Zhu Robert J. Kee	Proceedings of the Combustion Institute, 31 (2007) pp. 1101-1107
A49 Flow Field of Turbulent Premixed Combustion in a Cyclone-Jet Combustor	Kazuhiro Yamamoto Satoshi Inoue Hiroshi Yamashita Daisuke Shimokuri Satoru Ishizuka	Journal of Thermal Science and Technology, 2 , 1 (2007) pp. 90-101
A50 Vapor Distribution Measurement of Higher and Lower Volatile Components in an Evaporating Fuel Spray via Laser Absorption Scattering (LAS) Technique	Yuyin Zhang Keiya Nishida	Combustion Science and Technology, 179 (2007) pp. 863-881
A51 PIV Measurements on a 2-inch Tubular Flame Burner	Daisuke Shimokuri Yuyin Zhang Satoru Ishizuka	Proceedings of the Sixth Asia-Pacific Conference on Combustion, (2007) pp. 154-157
A52 Effect of Split Injection on Stratified Charge Formation of Direct Injection Spark Ignition Engines	Ti Li Keiya Nishida Yuhin Zhang Hiroyuki Hiroyasu	International Journal of Engine Research, 8 , 2 (2007) pp. 205-219
A53 A Challenge to Vapor Distribution Measurement of Multi-Component Evaporating Fuel Spray via Laser Absorption-Scattering (LAS) Technique	Yuyin Zhang Yoshinobu Kotani Akira Yoshida Keiya Nishida	JSAE/SAE Paper, JSAE20077224/SAE2007-01-1892 (2007) pp. 1368-1378
A54 Effects of Micro-Hole and Ultra-High Injection Pressure on Mixture Properties of D.I. Diesel Spray	Keiya Nishida Wu Zhang Tetsuya Manabe	JSAE/SAE Paper, JSAE20077100/SAE2007-01-1890 (2007) pp. 1353-1361
A55 Effects of Group-Hole Nozzle Specifications on Fuel Atomization and Evaporation of Direct Injection Diesel Sprays	Jian Gao Yuhei Matsumoto Keiya Nishida	JSAE/SAE Paper, JSAE20077021/SAE2007-01-1889 (2007) pp. 1340-1352

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A56 Spray and Mixture Properties of Hole-Type Injector for D.I. Gasoline Engine -Comparison of Experiment and CFD Simulation-	Kiyotaka Sato Keiya Nishida Tadashi Tadokoro Masahisa Yamakawa Hideaki Yokohata	JSAE/SAE Paper, JSAE20077024/SAE2007-01-1850 (2007) pp. 1-8
A57 Group-Hole Nozzle Effects on Mixture Formation and In-Cylinder Combustion Processes in Direct-Injection Diesel Engines	Jian Gao Yuhei Matsumoto Makoto Namba Keiya Nishida	SAE Paper, No.2007-01-4050 (2007) pp. 1-20
A58 Mixture Formation and Combustion Processes of Muti-Hole Nozzle with Micro Orifices for D.I. Diesel Engines	Yuhei Matsumoto Jian Gao Makoto Namba Keiya Nishida	SAE Paper, 2007-01-4049 (2007) pp. 1-11
A59 Analysis of Evaporation Process of Wall-Impinging Gasoline Spray Using a Laser Absorption Scattering Technique for Non-Axisymmetric Spray	Kiyotaka Sato Keiya Nishida Tadashi Tadokoro Jian Gao Seoksu Moon	Proceedings of the 11th Annual Conference on Liquid Atomization and Spray Systems-Asia, ILASS-Asia 2007, (2007) pp. 56-63
A60 Enhancement of Double Auger Decay Probability in Xenon Clusters Irradiated with a Soft X-ray Laser pulse	S. Namba N. Hasegawa M. Nishikino T. Kawachi M. Kishimoto K. Sukegawa M. Tanaka Y. Ochi K. Takiyama K. Nagashima	Physical Review Letters, 99 (2007) pp. 043004
A61 Novel atmospheric pressure plasma device releasing atomic hydrogen: reduction of microbial-contaminants and OH radicals in the air	H. Nojima R. Park J. Kwon I. Suh J. Jeon E. Ha H. On H. Kim K. Choi K. Lee B. Seong H. Jung S. Kang S. Namba K. Takiyama	Journal of Physics D: Appl. Phys., 40 (2007) pp. 501
A62 Effect of Collisional Disalignment on LIF Polarization Spectroscopy for Measuring Electric Field in Plasmas	S. Furukawa S. Namba K. Takiyama T. Oda	Proc. 28th International Conference on Phenomena in Ionized Gases (ICPIG 2007), (2007) pp. 1562-1565
A63 Measurements of localized electrostatic potential well profiles in a He discharge plasma by LIF polarization spectroscopy	S. Furukawa Y. Kuramoto S. Namba K. Takiyama	Proc. 13th International Symposium on Laser-Aided Plasma Diagnostics, NIFS-PROC, 68 (2007) pp. 170-173
A64 A LIF polarization spectroscopy by use of a Stark-electric quadrupole interference for electric field vector measurement in plasmas	K. Takiyama S. Furukawa S. Namba T. Oda	Proc. 13th International Symposium on Laser-Aided Plasma Diagnostics, NIFS-PROC, 68 (2007) pp. 275-278
A65 Observation of M3 isomeric transition from ^{156m}Pm through the β^- -decay of ^{156}Nd	M. Shibata O. Suematsu Y. Kojima K. Kawade A.Taniguchi Y. kawase	Eur. Phys. J. A, 31 (2007) pp. 171-176

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A66 Radioactivity in atomic bomb samples from exposure to environmental neutrons	S. Endo K. Shizuma K. Tanaka M. Ishikawa W. Ruhm S.D. Egbert	Health Phys, 93 , 6 (2007) pp. 689-695
A67 Microdosimetric evaluation of secondary neutrons in a phantom produced by a 290 MeV/nucleon carbon beam at HIMAC	S. Endo K. Tanaka M. Takada Y. Onizuma N. Miyahara T. Sato K. Shizuma	Medical Phys. 34 (9)(2007), 34 , 9 (2007) pp. 3571-3578
A68 Microdosimetric evaluation of secondary particles in a phantom produced by carbon 290 MeV/nucleon ions at HIMAC	S. Endo M. Takada Y. Onizuka K. Tanaka N. Maeda M. Ishikawa K. Shizuma	J. Radiat. Res., 48 (2007) pp. 397-406
A69 A Three-dimensional Finite Element Stress Analysis and Strength Evaluation of Stepped-lap Adhesive Joints Subjected to Static and Impact Tensile Loadings	Yuichiro Shin Kohei Ichikawa Toshiyuki Sawa	Proceedings of the International Conference on Advanced Computational Engineering and Experimenting, (2007)
A70 SEALING PERFORMANCE EVALUATION OF PIPE FLANGE CONNECTION UNDER ELEVATED TEMPERATURES	Toshiyuki SAWA Yoshio TAKAGI Hiroyasu TORII	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A71 THE SEALING PERFORMANCE OF A LARGER DIAMETER BOLTED JOINT UNDER ELEVATED TEMPERATURE	Toshiyuki SAWA Naoki KAWASAKI Yoshio TAKAGI Hiroyasu TORII	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A72 STRESS ANALYSIS AND SEALING PERFORMANCE OF PIPE FLANGE CONNECTIONS WITH NITI SHAPE MEMORY ALLOY GASKET	Yoshio TAKAGI Teruhisa TATSUOKA Naoki KAWASAKI Toshiyuki SAWA	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A73 SELF-LOOSENING MECHANISM OF NUTS DUE TO LATERAL MOTION OF FASTENED PLATE	Yasumasa SHOJI Toshiyuki SAWA Hiroshi YAMANAKA	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A74 MECHANISM OF ROTATIONAL SCREW THREAD LOOSENING IN BOLTED JOINTS UNDER REPEATED TEMPERATURE CHANGES	Toshiyuki SAWA Mitsutoshi ISHIMURA Hiroshi YAMANAKA Yusuke FUKUBA	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A75 COMPARISON OF FLANGE STRESS CALCULATED BY ASME DESIGN CODE AND FINITE ELEMENT ANALYSIS	Satoshi NAGATA Toshiyuki SAWA	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A76 FEM ANALYSIS AND EVALUATION OF THE SEALING PERFORMANCE IN FLEXIBLE BOX-SHAPE FLANGED BOLTED JOINTS WITH GASKETS SUBJECTED TO INTERNAL PRESSURE: EFFECT OF THE BOLT PITCH	Toshiyuki SAWA Ryo KUROSAWA Yasuaki TATSUMI	Proceedings of ASME PVP 2007/CREEP 8 CONFERENCE, (2007)
A77 Axisymmetrical Stress Analysis and Strength of Epoxy-Steel Composite Cylinders under push-off loadings	Toshiyuki SAWA Taro HASEGAWA	Proceedings of ASME 2007 IDETC/CIE CONFERENCE, (2007)
A78 FEM STRESS ANALYSIS AND STRENGTH OF ADHESIVE-RIVETS COMBINATION JOINTS UNDER TENSILE SHEAR LOADINGS	Toshiyuki Sawa Ryo Nogaito	Proceedings of ASME 2007 IDETC/CIE CONFERENCE, (2007)
A79 Two-dimensional Stress Analysis of Adhesive Butt Joints Filled with Elastic Circular Fillers in an Adhesive Subjected to External Bending Moments	Toshiyuki SAWA Katsuhiro TEMMA Yosuke AKITA	Proceedings of 2007 The 3rd China International Bonding (CIB'03) & the 2nd Asian Conference on Adhesion (ACA'02), (2007)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A80 FEM Stress Analysis and Strength of Scarf Adhesive Joints of Dissimilar Adherend Subjected to Impact Tensile Loadings	Toshiyuki SAWA Yuya HIRAYAMA	Proceedings of 2007 The 3rd China International Bonding (CIB'03) & the 2nd Asian Conference on Adhesion (ACA'02), (2007)
A81 A stress analysis and strength of scarf adhesive joints subjected to static bending moments	He DAN Toshiyuki SAWA	Proceedings of 2007 The 3rd China International Bonding (CIB'03) & the 2nd Asian Conference on Adhesion (ACA'02), (2007)
A82 FEM Stress Analysis and Strength of Scarf Adhesive Joints of Similar Adherend Subjected to Impact Tensile Loadings	Yuya HIRAYAMA Toshiyuki Sawa He Dan	Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, (2007)
A83 Stress Analysis and Strength of Scarf Adhesive Joints of Dissimilar Adherends Subjected to Static Bending Moments	Atsushi KARAMI Toshiyuki Sawa	Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, (2007)
A84 A numerical investigation of Interface dynamics during martensitic transformation in a shape memory alloy using the level-set method, Key Engineering Materials	Takeshi IWAMOTO Mohammed CHERKAOUI Esteban P. BUSSO	Key Engineering Materials, 340-341 (2007) pp. 1199-1204
A85 THE FE-BASED LEVEL-SET METHOD WITH VARIATIONAL APPROACH INTRODUCING PENALTY METHOD TO REMOVE RE-INITIALIZATION PROCESS	Takeshi IWAMOTO Mohammed CHERKAOUI Esteban P. BUSSO	Proceedings of Plasticity 2007, (2007)
A86 Experimental Study on Frictional Vibration in Bering Case of Centrifugal Fan	Takeo Fujii Noritoshi Nakagawa	Journal of System Design and Dynamics, 1 , 3 (2007) pp. 638-647
A87 Observation of Multibubble Phenomena in an Ultrasonic Reactor	Chaoqun Wu Noritoshi Nakagawa Yasuhide Sekiguchi	Experimental Thermal and Fluid Science, 31 (2007) pp. 1083-1089
A88 Development of Spring-Link Mechanism with a Constant Repulsive Force Characteristic	Noritoshi Nakagawa Taichiro Okuno	Proc. of the Second International Symposium on Advanced Technology of Vibration and Sound, 17 , 21 (2007) pp. 17-21
A89 Optimization of Exhaust Muffler	Takashi Yasuda Shinichiro Okino Koichi Hatanaka Noritoshi Nakagawa	Proc. of the Second International Symposium on Advanced Technology of Vibration and Sound, (2007) pp. 28-34
A90 Study on Performance Improvement and Noise Reduction of Turbo Fan - Effect of Blade Shape for Fan Impeller -	Takeo Fujii Hidekazu Takuno Noritoshi Nakagawa	Proc. of the Second International Symposium on Advanced Technology of Vibration and Sound, (2007) pp. 81-86
A91 Validation of an Ultrasonic Cleaning Technology for Pipe Cleaning	Noritoshi Nakagawa Cahoqun Wu Changlin Wu	Proc. of the Second International Symposium on Advanced Technology of Vibration and Sound, (2007) pp. 92-96
A92 Removal of Dust on a Flat Board Using Focused Ultrasonic Waves	Noritoshi Nakagawa Yusuke Konishi	Proc. of the Second International Symposium on Advanced Technology of Vibration and Sound, (2007) pp. 97-102
A93 Removal of Dust on Flat Board by Device of Focusing Ultrasonic Waves	Noritoshi Nakagawa Yusuke Konishi	Proc. of 14th International Congress on Sound and Vibration, (2007)
A94 Driving Performance and Strength of Pin-Rack Gear Mechanism	Kiyotaka Ikejo Kazuteru Nagamura Eiichiro Tanaka Koichi Yamamoto	Proceedings of The 12th World Congress in Mechanism and Machine Science (IFTOMM2007), (2007)
A95 The Damage Diagnosis of Gear Tooth Surface by Using a Laser Beam Reflection (Study toward the Practical Use under the Condition of Lubricant)	Eiichiro Tanaka Kazuteru Nagamura Kiyotaka Ikejo Ryozo Nemoto Tatsurou Sugiyama	Proceeding of JSME-KSME Joint International Conference on Manufacturing, Machine Design and Tribology ICMDT2007, (2007)

Published Papers

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A96 Wear of Involute-cycloid Composite Tooth Profile Gear	Natsuhiko Seyama Kazuteru Nagamura Kiyotaka Ikejo Eiichiro Tanaka Masatoshi Yoshikawa	Proceeding of JSME-KSME Joint International Conference on Manufacturing, Machine Design and Tribology ICMDT2007, (2007)
A97 Driving Performance and Strength of Pin-Rack Gear Mechanism using a Trochoid Tooth Profile	Kiyotaka Ikejo Kazuteru Nagamura Eiichiro Tanaka Koji Yamamoto	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A98 Driving Performance of High Reduction Planetary Gear Drive with Meshing of Arc Tooth Profile Gear	Kazuteru Nagamura Kiyotaka Ikejo Eiichiro Tanaka Takamasa Hirai Toshiyuki Koumori Ichiro Kamimura	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A99 Study on the Walking Support Machine Indoors by Assisting Whole Legs	Eiichiro Tanaka Tadaaki Ikehara Kazuteru Nagamura Kiyotaka Ikejo Takeshi Sakamoto Yusuke Inoue Shozo Saegusa	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A100 Turbulent Hierarchic Structures and Scalar Mixing in a Supersonic Mixing Layer at High Convective Mach Numbers	Hiroshi Maekawa Daisuke Watanabe	Proc. of ASME-JSME Thermal Engineering Summer Heat Transfer Conference, Vancouver, Canada, (2007)
A101 Direct numerical simulation of a spatially evolving supersonic transitional/turbulent boundary layer	Hiroshi Maekawa Daisuke Watanabe Hajime Takami Kougen Ozaki	Proc. of 5nd International Symposium on Turbulence and Shear Flow Phenomena (TSFP-5), 1 (2007) pp. 301-306
A102 An accurate scheme for electromagnetics with CIP-Method of characteristics	Yoichi Ogata Takashi Yabe	Proc. of The 4th Japan-Taiwan Workshop on Mechanical and Aerospace Engineering, (2007) pp. 388-393
A103 Computations for Various Knudsen Numbers Flow with Soroban-grid CIP Method	Yoichi Ogata Takashi Yabe	Proc. of APCOM'07 in conjunction with EPMESC XI, (2007)
A104 MBEANN: Mutation-Based Evolving Artificial Neural Networks	Kazuhiro Ohkura Toshiyuki Yasuda Yuichi Kawamatsu Yoshiyuki Matsumura Kanji Ueda	Advances in Artifical Life, the 9th European Conference on Artificial Life, Lecture Notes in Artificial Intelligence, 4648 (2007) pp. 936-945
A105 Improving Search Efficiency in the Action Space of an Instance-Based Reinforcement Learning	Toshiyuki Yasuda Kazuhiro Ohkura	Advances in Artifical Life, the 9th European Conference on Artificial Life, Lecture Notes in Artificial Intelligence, 4648 (2007) pp. 325-334
A106 Coordinating Collective Behavior in a Multi-Robot System using Evolving Artificial Neural Networks	Masanori Goka Kazuhiro Ohkura Kanji Ueda	1th Asia-Pacific Workshop on Intelligent and Evolutionary Systems, (2007)
A107 Grid Task Scheduling Algorithm R3Q for Evolution Strategies	Yoshiyuki Matsumura Kazuhiro Ohkura Yoshiki Matsuura Masashi Oiso Noriyuki Fujimoto Kenichi Hagiwara	IEEE Congress on Evolutionary Computation, (2007) pp. 1756-1763
A108 Job Shop Scheduling with Capacity Adjustment	Toru Eguchi Mitsunobu Yoda Takeshi Murayama Fuminori Oba	Proceedings of the 4th International Conference on Leading Edge Manufacturing in 21st Century, (2007)
A109 Analysis of positive invariance and almost regional attraction via density functions with converse results	Izumi Masubuchi	IEEE Transactions on Automatic Control, 52, 7 (2007) pp. 1329-1333

Paper Title	Author Name	Journal, Vol., No. (Year) Page
A110 Output feedback controller synthesis for descriptor systems satisfying closed-loop dissipativity	Izumi Masubuchi	Automatica, 43 , 2 (2007) pp. 339-345
A111 A change-of-variables method for output feedback synthesis of descriptor systems based on realization-independent LMIs	Izumi Masubuchi	Transactions of SICE, 43 , 12 (2007) pp. 1151-1155
A112 Fault detection and isolation method for injection unit with reaction force sensor	Kiyoshi Ichi Masami Saeki	Proceedings of International Conference on Mechatronics, (2007) pp. 1-6
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A115 Path-following Control of a Mobile Robot in the Presence of Actuator Constraints	Nobutaka Wada Shingo Tagami Masami Saeki	Advanced Robotics, 21 , 5-6 (2007) pp. 645-659
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A119 Effect of Strain Rate and Temperature on Yield Locus for AZ31 Magnesium Alloy Sheet	Tetsuo Naka Masanori Hayakashi Yasuhide Nakayama Takeshi Uemori Masahide Kohzu Kenji Higashi Fusahito Yoshida	Key Engineering Materials, 340-341 (2007) pp. 119-124
A120 Plasticity Characteristics of Beta Titanium Alloy Obtained using Depth-sensing Nano-indentation Test	Xiaoteng Wang Fusahito Yoshida Hongyuan Fang	Key Engineering Materials Vols, 340-341 (2007) pp. 571-576
A121 Reduction of Stages in Multi-Stage Metal Forming Process Based on Numerical Optimization in Conjunction with FE Simulation	Ryutaro Hino Akihiko Sasaki Fusahito Yoshida Vassili V. Toropov	Key Engineering Materials, 340-341 (2007) pp. 767-772
A122 Modeling of Large-Strain Cyclic Plasticity for Accurate Springback Simulation	F. Yoshida T. Uemori S. Abe	Key Engineering Materials, 340-341 (2007) pp. 811-816
A123 Plastic Deformation Behavior of High Strength Steel Sheet under Non-proportional Loading and Its Modeling	T. Uemori T. Kuramitsu R. Hino T. Naka F. Yoshida	Key Engineering Materials, 340-341 (2007) pp. 895-900
A124 Effects of Loading Speed and Shear Prestrain on Adhesive Fatigue Strength in Single-Lap Joint	Michihiro Takiguchi Fusahito Yoshida	Key Engineering Materials, 340-341 (2007) pp. 1479-1484
A125 Viscoplastic Behavior of Acrylic Adhesive in Butt-Joint at Various Temperatures under Complex Loading : Experimentation and Modelling	Tetsuya Yoshida Takayuki Oishi Michihiro Takiguchi Fusahito Yoshida	Key Engineering Materials, 340-341 (2007) pp. 1485-1490
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
A127 Effect of Texture of AZ31 Magnesium Alloy Sheet on Mechanical Properties and Formability at High Strain Rate	Masahide Kohzu Tomoya Hironaka Shota Nakatsuka Naobumi Saito Fusahito Yoshida Tetsuo Naka Haruo Okahara Kenji Higashi	Materials Transactions, 48 , 4 (2007) pp. 764-768
A128 Stochastic Optimization of Tension Leveling Process for Production of Flat Metallic Strips	Hiroshi Hamasaki Ryutaro Hino Fusahito Yoshida Vassili V. Toropov	Proceedings of the 7th World Congress on Structural and Multidisciplinary Optimization (WCSMO7), CD-ROM, (2007)
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A130 High-speed optimization of tension leveling conditions	M. Shigaki R. Hino H. Hamasaki V.V. Toropov F. Yoshida	International Conference on Computational Methods (ICCM2007), CD-ROM, (2007)
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A134 In-situ atomic force microscopy and crystallographic orientation analysis of small fatigue crack deflection behavior	A. Sugeta Y. Uematsu	Key Engineering Materials, 345-346 (2007) pp. 227-230
A135 Measurement of Delamination Strength of Thermal Barrier Coating at High Temperature by Edge-Indent Test	K.Nakasa M.Kato B.Zhang N.Akitake	Key Engineering Materials, 353-358 (2007) pp. 1290-1293
A136 Wear and Delamination Behavior of SiC Thin Film under Repeated Sliding Load	K.Nakasa M.Kato J.Zheng	Key Engineering Materials, 345-346 (2007) pp. 669-672

B. Artificial Complex Systems Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B1 An application of particle swarm optimization to bilevel facility location problems with quality of facilities	Takeshi Uno Hideki Katagiri Kosuke Kato	Asia Pacific Management Review, 12 , 4 (2007) pp. 183-189
B2 Particle swarm optimization for jump height maximization of a serial link robot	Takeshi Matsui Masatoshi Sakawa Takeshi Uno Kosuke Kato Mitsuru Higashimori Makoto Kaneko	Journal of Advanced Computational Intelligence and Intelligent Informatics, 11 , 8 (2007) pp. 956-963

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B3 A Fuzzy Model for the Multiobjective Emergency Facility Location Problem with A-distance	Takeshi Uno Hideki Katagiri Kosuke Kato	The Open Cybernetics and Systemics Journal, 1 (2007) pp. 21-27
B4 Particle Swarm Optimization Based Heuristics for Nonlinear Programming Problems	Takeshi Matsui Kosuke Kato Masatoshi Sakawa Takeshi Uno Kenji Morihara	International MultiConference of Engineering and Computer Scientists 2007, (2007) pp. 2312-2317
B5 An interactive fuzzy satisficing method through particle swarm optimization for multiobjective nonlinear programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, CD-ROM (2007) pp. 71-76
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B7 An interactive fuzzy satisficing method through particle swarm optimization with Pareto based approaches to multiobjective nonlinear programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Proceedings of 10th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty, (2007) pp. 87-96
B8 A tabu search based on a Strategic vibration for a facility location problem with a customer's preference in a competitive environment	Takeshi Uno Kosuke Kato Hideki Katagiri	Proceedings of 13th Asia Pacific Management Conference, (2007) pp. 1417-1421
B9 A location of competitive facilities in the plane including cooperative facilities	Takeshi Uno Hideki Katagiri	Proceedings of IEEE SMC Hiroshima Chapter 3rd International Workshop on Computational Intelligence & Applications, (2007) pp. P3-1-P3-6
B10 A discrete-time approximation technique for the time-cost trade-off in PERT networks	Amir Azaron Masatoshi Sakawa Reza Tavakkoli-Moghaddam Nima Safaei	RAIRO - Operations Research, 41 , 1 (2007) pp. 61-81
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B12 Interactive fuzzy programming based on a probability maximization model using genetic algorithms for two-level integer programming problems involving random variable coefficients	Kosuke Kato Masatoshi Sakawa	Proceedings of 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, (2007) pp. 77-84
B13 Effect of random errors on statistical behavior of discretized dynamical system	Itaru Hataue Yasumasa Saisho	Information, 10 , 1 (2007) pp. 5-14
B14 A stochastic model describing the number of male insects which are left without partners	Yasumasa Saisho	Ecological Modelling, 207 (2007) pp. 155-158
B15 Nondominated equilibrium solutions of a multiobjective two-person nonzero-sum game and corresponding mathematical programming problem	Ichiro Nishizaki Takuma Notsu	Journal of Optimization Theory and Applications, 135 , 2 (2007) pp. 217-239
B16 A general framework of agent-based simulation for analyzing behavior of players in games	Ichiro Nishizaki	Journal of Telecommunications and Information Technology, 4 (2007) pp. 28-35
B17 Artificial adaptive agent model characterized by learning and fairness in the ultimatum games	Tomohiro Hayashida Ichiro Nishizaki Hideki Katagiri	Journal of Telecommunications and Information Technology, 4 (2007) pp. 36-44

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B18 Development of interactive support systems for multiobjective decision analysis under uncertainty: MIDASS	Fumiko Seo Ichiro Nishizaki Hidenobu Hamamoto	Kyoto Institute of Economic Research, Discussion paper, 637 (2007) pp. 1-79
B19 A multi-objective lead time control problem in multi-stage assembly systems using genetic algorithms	Cahit Perkgoz Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	European Journal of Operational Research, 180 , 1 (2007) pp. 292-308
B20 Remarks on the application of genetic algorithm and tabu search method to nonlinear spanning tree problems	El Bekkaye Mermri Hideki Katagiri Masatoshi Sakawa Kosuke Kato	Applied Mathematics and Computation, 188 , 2 (2007) pp. 1071-1086
B21 Time-cost trade-off via optimal control theory in Markov PERT networks	Amir Azaron Hideki Katagiri Masatoshi Sakawa	Annals of Operations Research, 150 , 1 (2007) pp. 47-64
B22 A multi-objective discrete reliability optimization problem for dissimilar-unit standby systems	Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	OR Spectrum, 29 , 2 (2007) pp. 235-257
B23 Stackelberg solutions to stochastic two-level linear programming problems	Hideki Katagiri Ichiro Nishizaki Masatoshi Sakawa Kosuke Kato	Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, (2007) pp. 240-244
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B26 Simple but efficient antenna selection for MISO-OFDM systems	Shuichi Ohno Kenichi Yamaguchi Kok Ann Donny Teo	IEICE Transactions on Fundamentals, E90-A , 8 (2007) pp. 1594-1600
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B29 Preamble and pilot symbol design for Channel Estimation in OFDM	Shuichi Ohno	Proc. of IEEE Intl. Conf. on Acoustics, Speech and Signal Processing, 3 (2007) pp. 281-284
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B32 Production Policies in Recycling Systems with Stock Capacity Constraints	Yusuke Doi Akihiko Mizuno Daisuke Hirotani Katsumi Morikawa Katsumiko Takahashi	Proceeding of the 5th International Symposium on Environmentally Conscious Design and Inverse Manufacturing, (2007)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B33 A multi-agent system for stochastic assembly line balancing	Kana Yokoyama Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 8th Asia-Pacific Industrial Engineering & Management System and 2007 Chinese Institute of Industrial Engineers Conference, (2007)
B34 Satisfaction measure for order acceptance and rejection decision	Sujan Piya Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 8th Asia-Pacific Industrial Engineering & Management System and 2007 Chinese Institute of Industrial Engineers Conference, (2007)
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B36 Analysis of the human role in planning and scheduling via system dynamics	Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems, (2007) pp. 297-304
B37 Integrating activity based costing and process simulation for strategic human planning	Takayuki Kataoka Akitoshi Kimura Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems , (2007) pp. 273-280
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B39 Asymptotic behavior of solutions to the perturbed simple pendulum problems with two parameters	Tetsutaro Shibata	Mathematische Nachrichten, 280 (2007) pp. 451-462
B40 Global behavior of the branch of positive solutions for nonlinear Sturm-Liouville problems	Tetsutaro Shibata	Annali di Matematica Pura ed Applicata, 186 (2007) pp. 525-537
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
B48 On the Simulation of Voltage and Line Flow Limits in a Competitive Environment	Lukmanul Hakim Goran Strbac Junji Kubokawa Naoto Yorino Yoshifumi Zoka	Proc. of the International Symposium on Sustainable Energy 2007, (2007) pp. TH-P5
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B50 Application of Metaheuristic Methods to Reactive Power Planning: A Comparative Study for GA, PSO and EPSO	Mehdi Eghbal E. E. El-Araby Yoichi Ito Yoshifumi Zoka Naoto Yorino	Proc. of the IEEE International conference on Systems, Man and Cybernetics (SMC), (2007) pp. Paper #889
B51 A STATCOM Regulates System Voltage of Multimachine Systems	Mobarak Youssef Naoto Yorino Yoshifumi Zoka	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-4
B52 Design Optimal Feedback Control Using Evolution Partial Swarm Optimization in Multi-Machine Power System	Ardyono Priyadi Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-6
B53 Application of Metaheuristic Methods to Reactive Power Planning	Mehdi Eghbal Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-7
B54 Determination of Optimal Reservoir Operation Policy for Hydro-Electric Plants using Stochastic Dynamic Programming	Jha Deependra Kumar Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-8
B55 Voltage Security Constrained Reactive Power Planning Considering the Costs and Performance of VAR Devices	Mehdi Eghbal Naoto Yorino E. E. El-Araby Yoshifumi Zoka	Proc. of the iREP Symposium 2007, Bulk Power System Dynamics and Control-VII, MA-2 (2007) pp. Paper #82
B56 A Modified DEA Model for Benchmarking of Hydropower Plants	Jha Deependra Kumar Naoto Yorino Yoshifumi Zoka	Proc. of the Power Tech 2007, (2007) pp. Paper #30
B57 Optimal Allocation of Slow and Fast VAR Resources Considering Multi-Load Level States	Mehdi Eghbal E. E. El-Araby Yoshifumi Zoka Naoto Yorino	Proc. of the IASTED International Conference on Power and Energy Systems (AsiaPES2007), (2007)
B58 LMI-Based Additive Gain for Guaranteed Cost Control of Robotic Manipulator with Deadzone	Hiroaki Mukaidani Takayoshi Umeda Yoshiyuki Tanaka Toshio Tsuji	the 2007 American Control Conference , (2007) pp. 4077-4082
B59 Simultaneous Learning of Robot Impedance Parameters Using Neural Networks	Mutsuhiro Terauchi Yoshiyuki Tanaka Seishiro Sakaguchi Nan Bu Toshio Tsuji	Journal of Robotics and Mechatronics, 19 , 1 (2007) pp. 106-113
B60 Analysis and Modeling of Human Impedance Properties for Designing a Human-Machine Control System	Yoshiyuki Tanaka Teruyuki Onishi Toshio Tsuji Naoki Yamada Yuusaku Takeda Ichiro Masamori	Proceedings of the 2007 IEEE International Conference on Robotics and Automation, (2007) pp. 3627-3632

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B61 An Optimum Design of Robotic Hand for Handling a Visco-elastic Object Based on Maxwell Model	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	IEEE International Conference on Robotics and Automation, (2007) pp. 1219-1225
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B63 FPGA Implementation of a Probabilistic Neural Network using Delta-Sigma Modulation for Pattern Discrimination of EMG Signals	Keisuke Shima Toshio Tsuji	2007 IEEE/ICME International Conference on Complex Medical Engineering-CME2007, (2007) pp. 403-408
B64 Evaluation of Autonomic Nervous Activity Based on Arterial Wall Impedance and Heart Rate Variability	Abdugheni Kutluk Kenji Shiba Toshio Tsuji Ryuji Nakamura Noboru Saeki Masashi Kawamoto	2007 IEEE/ICME International Conference on Complex Medical Engineering-CME2007, (2007) pp. 469-474
B65 A neural network model of the olfactory system of mice -computer simulation of an attention behavior of mice to some components in an odor-	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Otake	Proceedings of the Twelfth International Symposium on Artificial Life and Robotics, (2007) pp. 110-115
B66 Analysis of Specific Absorption Rate and Current Density in an Energy Transmission System for a Wireless Capsule Endoscope	Kenji Shiba Tomohiro Nagato Toshio Tsuji Kohji Koshiji	Proceedings of the 2007 IEEE International Conference of the Engineering in Medicine and Biology Society, (2007) pp. 6051-6054
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B68 Basic Consideration on Robotic Food Handling by Using Burger Model	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	The 4th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI 2007), (2007) pp. 363-368
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B70 An Analysis of Equivalent Impedance Characteristics by Modeling the Human Musculoskeletal Structure as a Multibody System	Masatoshi Hada Daisuke Yamada Toshio Tsuji	Proceeding of the ECCOMAS Thematic Conference on Multibody Dynamics, BM1, (2007) pp. 1-20
B71 Pattern Discrimination of Mechanomyogram Using A Delta-sigma Modulated Probabilistic Neural Network	Keisuke Shima Toshio Tsuji	The 1st International Conference on Cognitive Neurodynamics, (2007) pp. 4
B72 Active Strobe Imager for Visualizing Dynamic Behavior of Tumors	Makoto. Kaneko Chisashi. Toya Masazumi. Okajima	Proc. of the IEEE Int. Conf. on Robotics and Automation, (2007) pp. 109
B73 Real-time and Long-time Quantification of Behavior of Laboratory Mice Scratching	Idaku ISHII Yuman NIE Kenkichi YAMAMOTO Kensuke ORITO Hiroshi MATSUDA	Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, (2007) pp. 629-633
B74 A High-Speed 3D Shape Measurement System Using a Multi-Sided Mirror	Kenkichi Yamamoto Hiroaki Fujii Idaku Ishii	Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, (2007) pp. 823-828

Paper Title	Author Name	Journal, Vol., No. (Year) Page
B75 High-Speed 3D Image Acquisition Using Coded Structured Light Projection	Idaku Ishii Kenichi Yamamoto Kensuke Doi Tokuo Tsuji	Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, (2007) pp. 925-930
B76 High-Speed Visual Tracking of the Nearest Point of an Object Using 1,000-fps Adaptive Pattern Projection	Tomoyuki Inoue Shingo Kagami Joji Takei Koichi Hashimoto Kenichi Yamamoto Idaku Ishii	Proceedings of the 2007 IEEE International Workshop on Projector-Camera Systems, (2007)
B77 Grasp Force Magnifying Mechanism for Parallel Jaw Gitters	Takeshi Takaki Toru Omata	Proc. of the 2007 IEEE International Conference on Robotics and Automation, (2007) pp. 199-204
B78 Friction Independent Dynamic Capturing Strategy for a 2D Stick-shaped Object	Mitsuru Higashimori Maiko Kimura Idaku Ishii Makoto Kaneko	Proc. of the 2007 IEEE International Conf. on Robotics and Automation, (2007) pp. 217-224
B79 Contact Probe Based Stiffness Sensing of Human Eye by Considering Contact Area	Yuichi Kurita Yoshichika Iida Roland Kempf Makoto Kaneko Hidetoshi Tsukamoto Eiichiro Sugimoto Seiki Katakura Hiromu Mishima	Proc. of the 2007 IEEE International Conf. on Robotics and Automation, (2007) pp. 1906-1911
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C. Information Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C1 Near Optimal Randomized Initialization on the 1-Dimensinal Reconfigurable Mesh	Koji Nakano	International Journal of Principles and Applications in Information Science and Technology, 1 , 1 (2007) pp. 53-64
C2 Efficient Hardware Algorithms for N Choose K Counters Using the Bitonic Merger	Yasuaki Ito Koji Nakano Youhei Yamagishi	International Journal on Foundations of Computer Science, 18 , 3 (2007) pp. 517-528
C3 Randomized Initialization on the 1-dimentional Reconfigurable Mesh	Koji Nakano	Proc. of International Conference on Parallel and Distributed Computing, Applications and Technologies, 293 , 300 (2007) pp. 293-300
C4 Cluster-dot Screening by Local Exhaustive Search with Hardware Acceleration	Yasuaki Ito Koji Nakano	Proc. of Workshop on Advances in Parallel and Distributed Computational Models (CD-ROM), (2007)
C5 Proteus: An Architecture for Adapting Web Page on Small-Screen Devices	M. F. Caetano A.L.F. Fialho J.L.Bordim C.D.Castanho R.P.Jacobi K. Nakano	Proc. of IFIP International Conference on Network and Parallel Computing, (2007)
C6 Extended Skip Graphs for Efficient Key Search in Peer-to-Peer Environment	Satoshi Fujita Akira Ohtsubo Masaya Mito	Journal of Interconnection Networks, 8 , 2 (2007) pp. 119-132
C7 A Content Addressable Small-World Network	Akira Ohtsubo Shigeaki Tagashira Satoshi Fujita	Proc. Parallel and Distributed Computing and Networks (PDCN 2007), (2007)
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C9 SwRED: A Robust Active Queue Management Scheme based on Load Level Prediction	Wei Liu Shigeaki Tagashira Satoshi Fujita	Proc. International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), (2007) pp. 336-341
C10 Connected Domatic Partition Problem on Directed Path Graphs	Masaya Mito Satoshi Fujita	Proc. 2007 Korea-Japan Joint Workshop on Algorithms and Computation, (2007) pp. 113-120
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C12 A Peer Selection Scheme for P2P Download Systems based on a Matchmaking Method	Ai Sugimoto Shigeaki Tagashira Satoshi Fujita	Proc. Fifth Int'l Workshop on Databases, Information Systems and Peer-to-Peer Computing, (2007)
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C14 Performance Comparison of Algorithms for the Dynamic Shortest Path Problem	Satoshi Taoka Dasisuke Takafuji Takashi Iguchi Toshimasa Watanabe	IEICE Trans. Fundamentals, E90-A , 4 (2007) pp. 847-856

Published Papers

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C15 Enhancing PC Cluster-based Parallel Branch-and-Bound Algorithms for the Graph Coloring Problem	Satoshi Taoka Toshimasa Watanabe	Proc. the 20th Workshop on Circuits and Systems in Karuizawa, (2007) pp. 391-396
C16 Univalence of a complex linear combination of two extremal parallel slit mappings	Shiba, M.	Analysis, 27 (2007) pp. 301-310
C17 Theoretical justification of decision rules for the number of factors: Principal component analysis as a substitute for factor analysis in one-factor cases	Manabu Sato Masaaki Ito	Journal of The Japan Statistical Society, 37 , 2 (2007) pp. 175-190
C18 Non-rigid Image Registration for Medical Imaging using a Free-form Deformation	Toru Higaki Toru Tamaki Kazufumi Kaneda Nobutada Date Shogo Azemoto	Proc. of IEVC2007; Image Electronics and Visual Computing Workshop, (2007)
C19 Upgrading Eigenspace-based Prediction using Null Space and its Application to Path Prediction	Yuji Shinomura Toru Tamaki Toshiyuki Amano Kazufumi Kaneda	Proc. of Subspace2007, (2007) pp. 24-31
C20 The secret of rotating object images – Using cyclic permutation for view-based pose estimation –	Toru Tamaki Toshiyuki Amano Kazufumi Kaneda	Proc. of Subspace2007, (2007) pp. 17-23
C21 A Classroom Practice of Error-based Simulation as Counterexample to Students	Tomoya Horiguchi Isao Imai Takahito Toumoto Tsukasa Hirashima	Proc. of ICCE2007(Frontiers in Artificial Intelligence and Applications, 162), (2007) pp. 519-525
C22 Automatic Generation of Computer-Based Learning Games for Problem Solving	Takanobu Umetsu Yoshinori Kakiya Tsukasa Hirashima Akira Takeuchi	The Supplementary Proceedings of ICCE 2007 Poster Papers, (2007) pp. 65-66
C23 Learning by Problem-Posing as Sentence-Integration and Experimental Use	Tsukasa Hirashima Takuro Yokoyama Masahiko Okamoto Akira Takeuchi	Proceedings of AIED 2007(Frontiers in Artificial Intelligence and Applications, 158), (2007) pp. 254-261
C24 Differential Indexing as a Metadata Model of Exercise Problems	Tsukasa Hirashima	Proc. of Supplemental Proceedings of ICCE 2007, (2007) pp. 123-127
C25 Recommendation of Visual Information by Gaze-Based Implicit Preference Acquisition	Atsuo Yoshitaka Kouki Wakiyama Tsukasa Hirashima	Advances in Multimedia Modeling, Lecture Notes in Computer Science 4351, (2007) pp. 126-137
C26 Thinking Process Based Reflection Promotes Conceptual Change: In the lesson of "Three States of Matter" Using Concept Mapping Software for Reconstructing Learning Processes	Akiko Deguchi Shigenori Inagaki Etsushi Yamaguchi Hideo Funaoi	Proceedings of the National Association for Research in Science Teaching 2007 Annual Meeting [CD-ROM], (2007)
C27 Digital Fortune Line System: Technology for Promoting Conceptual Change through Visualization and Sharing of Learners' Conceptual Ecologies	Etsushi Yamaguchi Akiko Deguchi Naohisa Misawa Hideo Funaoi Shigenori Inagaki Masaji Fujimoto	Proceedings of World Conference of Educational Multimedia, Hypermedia and Telecommunications 2007, (2007) pp. 3837-3842
C28 Evaluation of Digital Fortune Line System: How Does It Mediate Sharing of Learners' Commitment?	Naohisa Misawa Etsushi Yamaguchi Shigenori Inagaki Hideo Funaoi Akiko Deguchi Masaji Fujimoto	The Supplementary Proceedings of ICCE 2007 Poster Papers, (2007) pp. 5-6
C29 A five-state von Neumann neighbor universal hyperbolic cellular automaton	Katsunobu Imai Chuzo Iwamoto Kenichi Morita	Journal of Cellular Automata, 1 , 4 (2007) pp. 275-297

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C30 Simple universal one-dimensional reversible cellular automata	Kenichi Morita	Journal of Cellular Automata, 2 , 2 (2007) pp. 159-166
C31 Computation-universality in simple reversible systems	Kenichi Morita	Proc. Unconventional Computing 2007, Bristol, (2007) pp. 314-314
C32 Translational lemmas for DLOGTIME-uniform circuits, alternating TMs, and PRAMs	Chuzo Iwamoto Naoki Hatayama Yoshiaki Nakashiba Kenichi Morita Katsunobu Imai	Acta Informatica, 44 , 5 (2007) pp. 345-359
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C34 A Time Hierarchy Theorem for Non-deterministic Cellular Automata	Chuzo Iwamoto Harumasa Yoneda Kenichi Morita Katsunobu Imai	Proc. 4th Ann. Conf. on Theory and Applications of Models of Computation, LNCS 4484, Springer-Verlag, 4484 (2007) pp. 511-520
C35 A characterization of von Neumann neighbor number-conserving cellular automata	Naonori Tanimoto Katsunobu Imai	Proc. 2nd International Workshop on Natural Computing, Nagoya, (2007) pp. 1-10
C36 Calabi-Yau threefolds arising from fiber products of rational quasi-elliptic surfaces, I	Masayuki Hirokado Hiroyuki Ito Natsuo Saito	Ark. Mat., 45 , 2 (2007) pp. 279-296
C37 Discrete-time spare ordering policy with randomized lead times and discounting	B. C. Giri T. Dohi N. Kaio	International Transactions in Operational Research, 13 , 6 (2007) pp. 561-576
C38 Estimating cost-effective checking request policies	T. Dohi N. Kaio S. Osaki	Quality Technology and Quantitative Management, 4 , 2 (2007) pp. 1-13
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C40 Optimal (T, S)-policies in a discrete-time opportunity-based age replacement: an empirical study	T. Dohi N. Kaio S. Osaki	International Journal of Industrial Engineering, 14 , 4 (2007) pp. 340-347
C41 Dynamic software reliability modeling with discrete-test metrics; how good is it?	K. Shibata K. Rinsaka T. Dohi	International Journal of Industrial Engineering, 14 , 4 (2007) pp. 332-339
C42 Stochastic profit models under repair-limit replacement program	T. Dohi N. Kaio S. Osaki	Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) pp. 27-34
C43 A note on Markov chain Monte Carlo for software reliability models with group data	H. Okamura T. Sakoh T. Dohi	Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) pp. 221-228
C44 Effective algorithms for the optimal software rejuvenation schedule under censoring	K. Rinsaka T. Dohi	Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) pp. 243-250

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C45 A faster estimation algorithm for periodic preventive rejuvenation schedule maximizing system availability	K. Rinsaka T. Dohi	Service Availability: 4th International Service Availability Symposium (ISAS 2007), Lecture Notes in Computer Science, 4526 (2007) pp. 94-104
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C51 Bivariate software fault-detection models	T. Ishii T. Dohi H. Okamura	Proceedings of 31st Annual International Computer Software and Applications Conference (COMP-SAC 2007), 535 , 538 (2007)
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C55 Quantifying software maintainability based on a fault-detection/correction model	K. Shibata K. Rinsaka T. Dohi H. Okamura	Proceedings of 13th Pacific Rim International Symposium on Dependable Computing (PRDC'07), (2007) pp. 35-42
C56 PISRAT: Proportional intensity-based software reliability assessment tool	K. Shibata K. Rinsaka T. Dohi	Proceedings of 13th Pacific Rim International Symposium on Dependable Computing (PRDC'07), (2007) pp. 43-52

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C57 Quantitative evaluation of intrusion tolerant systems subject to DoS attacks via semi-Markov cost models	T. Uemura T. Dohi	Emerging Directions in Embedded and Ubiquitous Computing: International Conference EUC 2007 Workshops, Lecture Notes in Computer Science, 4809 (2007) pp. 31-42
C58 Modification of a cubic Bezier spirals for curve design	Koichi Harada Hideki Usui Koichiro Nishi	Trans. IEICE, E90-D , 1 (2007) pp. 364-370
C59 Development for parallel Hopfield neural network implemented for GPU	Zhong He Koichi Harada	Proc. ICITA2007, (2007) pp. 221-226
C60 Harr wavelet based approach for image compression and quality assessment of compressed image and scalable image compression scheme with wavelets	Kamrul H Talukder Koichi Harada	IAENG Int. Jour. Appl. Math., 36 , 1 (2007) pp. 49-56
C61 Development and performance analysis of an adaptive and scalable image compression scheme with wavelets	Kamrul H Talukder Koichi Harada	Proc. ICICT2007, (2007) pp. 250-253
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C63 Application of fast-marching method on mammograms for breast skin-line estimation	Roshan D Yapa Koichi Harada	Proc. 2nd Int. Conf. on Ind. and Inform. System, (2007)
C64 Discrete wavelet transform for image compression and a model of parallel image compression scheme for formal verification	Kamrul H Talukder Koichi Harada	Proc. World Congress on Eng. 2007, (2007) pp. 531-535
C65 Single-patch NURBS face	Ken Yano Koichi Harada	Proc. SITIS 2007, (2007) pp. 771-776
C66 Use of Fuzzy Neural Network in Diagnosing Postmenopausal Women with Osteoporosis Based on Dental Panoramic Radiographs	Agus Zainal Arifin Akira Asano Akira Taguchi Takashi Nakamoto Masahiko Ohtsuka Mikio Tsuda Yoshiki Kudo Keiji Tanimoto	Journal of Advanced Computational Intelligence and Intelligent Informatics, 11 , 8 (2007) pp. 1049-1058
C67 Measurement of Surface Property Using A Special Sensor Developed for Pile Materials	Takako Fujimoto Mathew R. Sunderland Surinder K. Tandon Chie Muraki Asano Akira Asano Choji Murata Hiroaki Fukuyama	Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007)
C68 Evaluation of Kansei of Clothing Materials: Part I - Visual Impression and Properties of Black Fabrics -	Machiko Murakami Chie Muraki Asano Akira Asano Takako Fujimoto Surinder K. Tandon Steve McNeil Carolyn Piper Miyuki Morita Masukuni Mori	Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007)
C69 Evaluation of Kansei of Clothing Materials: Part II - Texture and Visual Impressions Using Novel Technique -	Chie Muraki Asano Takako Fujimoto Akira Asano Machiko Murakami Surinder K. Tandon Steve McNeil Carolyn Piper Miyuki Morita Masukuni Mori	Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C70 Morphological Texture Manipulation and Human Visual Impressions	Chie Muraki Asano Akira Asano Takako Fujimoto	Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007)
C71 Automatic Region-of-Interest Extraction from Dental Panoramic Radiographs for Forensic Personal Identification	Febriliyan Samopa Akira Asano Akira Taguchi	Proc. 2nd Korean-Japan Joint Workshop on Pattern Recognition; IEICE Tech. Rep., 107 , 281 (2007) pp. 161-166
C72 Image Retrieval based on Object Extraction and Kansei Estimation	Nanik Suciati Darlis Hermurti Joko Lianto Buliali Dyah Wardhani Kusuma Ahmad Saikhu Chie Muraki Asano Akira Asano	Proc. 2nd Korean-Japan Joint Workshop on Pattern Recognition; IEICE Tech. Rep., 107 , 281 (2007) pp. 191-196
C73 Analytic Compactification of C^2/D	Mikio Furushima Yasuhiro Ohshima Tadashi Shima	Abhandlungen aus dem Mathematischen Seminar der Universitaet Hamburg, 77 (2007) pp. 155-168
C74 GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution R($\{00,10,01,11\} \Omega$) with $2 \leq m_1, m_2 \leq 4$	Shujie Lu Eiji Taniguchi Yoshifumi Hyodo Masahide Kuwada	Scientiae Mathematicae Japonicae, 65 , 1 (2007) pp. 81-94
C75 GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution R($\{00,10,01\} \Omega$) with $2 \leq m_1, m_2 \leq 4$	Shujie Lu Eiji Taniguchi Yoshifumi Hyodo Masahide Kuwada	Hiroshima Math. J., 37 , 1 (2007) pp. 119-143
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D. Chemistry and Chemical Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D1 Polymer-assisted Annealing of Spray-pyrolyzed Powders for Formation of Luminescent Particles with Submicron and Nanometer sizes	W. N. Wang S. G. Kim I. W. Lenggoro K. Okuyama	J. Am. Ceram. Soc., 90 , 2 (2007) pp. 425-432
D2 Fabrication of a large area monolayer of silica particles on a sapphire substrate by a spin coating method	T. Ogi L. B. Modesto-Lopez F. Iskandar K. Okuyama	Colloid Surf. A-Physicochem. Eng. Asp, 297 , 1-3 (2007) pp. 71-78
D3 Formation and Luminescence Enhancement of Agglomerate-Free YAG:Ce ³⁺ Submicron Particles by Flame Assisted Spray Pyrolysis	A. Purwanto W.-N. Wang I.W. Lenggoro K. Okuyama	J. Electrochem. Soc., 154 , 3 (2007) pp. J91-J96
D4 Vapor Condensation on Nanoparticles in The Mixer of a Particle Size Magnifier	S. P. Fisenko W.-N. Wang M. Shimada K. Okuyama	Int. J. Heat Mass Transf., 50 , 11-12 (2007) pp. 2333-2338

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D5 Photoluminescence Optimization of Luminescent Nanoocomposites by Spray Pyrolysis of a Colloid-Solution Precursor	W.-N. Wang Widiyastuti I.W. Lenggoro T.-O. Kim K. Okuyama	J. Electrochem. Soc., 154 , 4 (2007) pp. J121-J128
D6 Monolayer Deposition of L_{10} FePt Nanoparticles via Electrospray Route	H. M. Lee S. G. Kim I. Matsui T. Iwaki F. Iskandar I. W. Lenggoro K. Okuyama	J. Magn. Magn. Mater., 313 , 1 (2007) pp. 62-68
D7 Fabrication of Reference Filter for Measurements of EC (Elemental Carbon) and OC (Organic Carbon) in Aerosol Particles	H. M. Lee K. Okuyama A. Mizohata T. O. Kim H. Koyama	Aerosol Sci. Tech., 41 , 3 (2007) pp. 284-294
D8 Colloidal Nanoparticle Analysis by Nanoelectrospray Size Spectrometry with a Heated Flow	I. W. Lenggoro H. Widiyandari C. J Hogan Jr P. Biswas K. Okuyama	Anal. Chim. Acta, 585 , 2 (2007) pp. 193-201
D9 Enhanced Photocatalytic Performance of Brookite TiO_2 Macroporous Particles Prepared by Spray Drying with Colloidal Templatting	F. Iskandar A. B. D. Nandyanto K. M. Yun C. J. Hogan Jr. K. Okuyama P. Biswas	Adv. Mater., 19 , 10 (2007) pp. 1408-1412
D10 Production of Narrow Size Distribution Polymer-Pigment Nanoparticle Composites via Electrohydrodynamic Atomization	H. Widiyandari C. J. Hogan Jr. K. M. Yun F. Iskandar P. Biswas K. Okuyama	Macromol. Mater. Eng., 292 (2007) pp. 495-502
D11 Correlations between Crystallite/Particle Size and Photoluminescence Properties of Submicron Phosphors	W.-N. Wang W. Widiyastuti T. Ogi I. W. Lenggoro K. Okuyama	Chem. Mater., 19 , 7 (2007) pp. 1723-1730
D12 Critical Ion Concentration on Pitting and General Corrosion of Copper	A. Yabuki M. Murakami	Corrosion, 63 , 3 (2007) pp. 249-257
D13 Simulation and Experiment of Spray Pyrolysis of Polydisperse Droplets	Widiyastuti W.-N. Wang I. W. Lenggoro F. Iskandar K. Okuyama	J. Mater. Res., 22 , 7 (2007) pp. 1888-1898
D14 Formation of $BaTiO_3$ nanoparticles from an aqueous precursor by flame assisted spray pyrolysis	A. Purwanto W.-N. Wang I. W. Lenggoro K. Okuyama	J. Eur. Ceram. Soc., 27 , 16 (2007) pp. 4489-4497
D15 Low Temperature Crystallization of Barium Ferrite Nanoparticles by a Sodium Citrate-Aided Synthetic Process	S. G. Kim W.-N. Wang T. Iwaki A. Yabuki K. Okuyama	J. Phys. Chem. C., 111 , 28 (2007) pp. 10175-10180
D16 Controlled Size Polymer Particle Production via Electrohydrodynamic Atomization	C. J. Hogan K. M. Yun D. Chen I. W. Lenggoro P. Biswas K. Okuyama	Colloid and Surf A: Physicochemical and Engineering Aspects, 311 , 1-3 (2007) pp. 67-76

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D17 Nanoparticle Filtration by Electrospun Polymer Fibers	K. M. Yun C. J. Hogan Y. Matsubayashi M. Kawabe F. Iskandar K. Okuyama	Chem. Eng. Sci., 62 , 17 (2007) pp. 4751-4759
D18 Heating Profile Effect on Morphology, Crystallinity and Photoluminescent Properties of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ Phosphor Nanofibers Prepared Using an Electrospinning Method	M. M. Munir K. M. Yun F. Iskandar A. Yabuki K. Okuyama	Jpn. J. Appl. Phys., 46 , 10A (2007) pp. 6705-6709
D19 A pulse combustion-spray pyrolysis process for the preparation of nano- and submicron-sized oxide particles	Widiyastuti W.-N. Wang A. Purwanto I. W. Lenggoro K. Okuyama	J. Am. Ceram. Soc., 90 , 12 (2007) pp. 3779-3785
D20 Barrier and self-healing abilities of corrosion protective polymer coatings and metal powders for aluminum alloys	A. Yabuki H. Yamagami K. Noishiki	Materials and Corrosion, 58 , 7 (2007) pp. 497-501
D21 Corrosion of an aluminum alloy chilled in flowing seawater and the effect of cathodic prevention	A. Yabuki David T. Yasunaga T. Shibutani K. Shinkai	Materials and Corrosion, 58 , 5 (2007) pp. 340-344
D22 Biopersistence of Inhaled Nickel Oxide Nanoparticles in Rat Lung	T. Oyabu A. Ogami Y. Morimoto M. Shimada I. W. Lenggoro K. Okuyama I. Tanaka	Inhalation Technology, 19 , Suppl. 1 (2007) pp. 55-58
D23 Technology Innovation in the Nanoparticle Project -Synthesis of Nanoparticles and Nanocomposites-	Kikuo Okuyama Wei-Ning Wang Ferry Iskandar	KONA, 25 (2007) pp. 237-243
D24 Study on phase behaviors of supercritical CO ₂ including surfactant and water	Masashi Haruki Hiroyuki Yawata Mari Nishimoto Masashi Tanto Shin-ichi Kihara Shigeki Takishima	Fluid Phase Equilibria, 261 (2007) pp. 92-98
D25 PVT properties of polyethylene copolymer melts	Yoshiyuki Sato Hajime Hashiguchi Kenzo Inohara Shigeki Takishima Hirokatsu Masuoka	Fluid Phase Equilibria, 257 (2007) pp. 124-130
D26 Dielectric Behavior of cis-Polyisoprene in Carbon Dioxide under High Pressure	Yumi Matsumiya Tadashi Inoue Hirosaki Watanabe Shin-ichi Kihara Masahiro Ohshima	Nihon Reoroji Gakkaishi, 35 (2007) pp. 155-161
D27 Dewatering of activated sludge by thermosensitive polymers	Shuji Sakohara Eiichi Ochiai Tomoaki Kusaka	Separation and Purification Technology, 56 (2007) pp. 296 -302
D28 Synthesis of Porous Poly(N-isopropylacrylamide) Gel Beads by Sedimentation Polymerization and Their Morphology	Takashi Iizawa Hatsumi Taketa Makoto Maruta Takashi Ishido Takehiko Gotoh Shuji Sakohara	Journal of Applied Polymer Science, 104 (2007) pp. 842-845
D29 Synthesis of Nonporous Poly(N-alkylacrylamide) Gel Beads by Nonaqueous Sedimentation Polymerization	Takashi Iizawa Takashi Ishido Takehiko Gotoh Shuji Sakohara	Polymer Journal, 39 , 1 (2007) pp. 18-20

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D30 Synthesis and Swelling/De-swelling Behavior of Core-Shell Type Gel Consisting of Two Different Poly(N-alkylacrylamide) Gel Layers	Takashi Iizawa Akihiro Terao Machiko Ohuchida Yoshinobu Matsuura Yukio Onohara	Polymer Journal, 39 (2007) pp. 1177-1184
D31 Dewatering of Organic Slurries Using Reinforced Thermosensitive Porous Gels -Effect of preparation conditions on the dewatering performance of the gel-	Takehiko Gotoh Hiroshi Okamoto Shuji Sakohara	Polymer Bulletin, 58 (2007) pp. 213-223
D32 Work of Adhesion as a Dominant Factor in Formation of Composition-Gradient Thermosensitive Gel	Hideaki Tokuyama Masahiro Sasaki Shuji Sakohara	Chemical Engineering Technology, 30 (2007) pp. 139-144
D33 Effect of synthesis-solvent on swelling and elastic properties of poly(N-isopropylacrylamide) hydrogels	Hideaki Tokuyama Noriaki Ishihara Shuji Sakohara	European Polymer Journal, 43 (2007) pp. 4975-4982
D34 Preparation of asymmetric thermosensitive double-layer gel	Takashi Iizawa Akihiro Terao Machiko Ohuchida	The 10th Pacific Polymer Conference (PPC10), (2007) pp. 199a
D35 Dewatering of Organic Slurry with Improved Reinforced Porous Thermosensitive Gel	Takehiko Gotoh Shinya Fukuda Shuji Sakohara	Filtration and Separation Symposium 2007, (2007) pp. 139-143
D36 A molecular dynamics simulation of pressure-driven gas permeation in a micropore potential field on silica membranes	Tomohisa Yoshioka Masashi Asaeda Toshinori Tsuru	Journal of Membrane Science, 293 (2007) pp. 81-93
D37 Thermal stability improvement of MFI-type zeolite membranes with doped zirconia intermediate layer	Masakoto Kanezashi Jessica O'Brien Y.S. Lin	Microporous and Mesoporous Materials, 103 (2007) pp. 302-308
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D39 Growth processes of poly methyl-methacrylate particles investigated by atomic force microscopy	Tetsuya Yamamoto K. Higashitani	Advanced Powder Technology, 18 , 5 (2007) pp. 567-577
D40 Effects of microwave irradiation on the crystalline phase of zeolite synthesized from fly ash by hydrothermal treatment	Kunihiro Fukui K. Kanayama T. Yamamoto H. Yoshida	Advanced Powder Technology, 18 , 4 (2007) pp. 381-393
D41 Effect of Apex Cone and Secondary Flow Injection on Classification Performance of Dry-Cyclone	Hideto Yoshida K. Fukui T. Yamanoto S. Taniguchi Y. Nishimura	The Asian Particle Technology Symposium, B21 (2007)
D42 Effects of Microwave Irradiation on the Crystalline Phase of Zeolite Synthesized from Fly Ash by Hydrothermal Treatment	Kunihiro Fukui	The Asian Particle Technology Symposium, P12 (2007)
D43 Evaluation of erosion and fatigue resistance of ion plated chromium nitride applied to turbine blades	Yoshinori Isomoto Oka Toki Yoshida Yoshikazu Yamada Toyoaki Yasui S Hata	Wear, 263 (2007) pp. 379-385
D44 Effective parameters on erosion caused by water droplet impingement and applications to surface treatment technology	Yoshinori Isomoto Oka Soshi Miura Yoshikazu Miyata	Wear, 263 (2007) pp. 386-394
D45 Facile Synthesis of Highly π -Extended Heteroarenes, Dinaphtho[2,3-b:2',3'-f]chalcogenopheno[3,2-b]chalcogenophenes, and Their Application to Field-Effect Transistors	Tatsuya Yamamoto Kazuo Takimiya	J. Am. Chem. Soc, 129 , 8 (2007) pp. 2224-2225
D46 Development of New Semiconducting Materials for Durable High-Performance Air-stable Organic Field-Effect Transistors	Kazuo Takimiya Yoshihito Kunugi Tetsuo Otsubo	Chem. Lett, 36 , 5 (2007) pp. 578-583

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D47 Design strategy for air-stable organic semiconductors applicable to high performance field-effect transistors	Kazuo Takimiya Tatsuya Yamamoto Hideaki Ebata Takafumi Izawa	Sci. Tech. Adv. Mater., 8 (2007) pp. 273-276
D48 Solution-Processible n-Channel Organic Field-Effect Transistors Based on Dicyanomethylene-substituted Terthienoquinoid Derivative	S. Handa E. Miyazaki K. Takimiya Y. Kunugi	J. Am. Chem. Soc., 129 , 38 (2007) pp. 11684-11685
D49 Conductive, Magnetic, and Optical Properties of Sterically Hindered Dodecithiophenes. Evidence for the Coexistence of Bipolaron and pi-Dimer	T. Kurata T. Mohri K. Takimiya T. Otsubo	Bull. Chem. Soc. Jpn., 80 , 9 (2007) pp. 1799-1807
D50 Development of N-Alkyl-Substituted Bis(pyrrolo[3,4-d])tetraphiafulvalenes as Organic Semiconductors for Solution-Processible Field-Effect Transistors	I. Doi E. Miyazaki K. Takimiya Y. Kunugi	Chem. Mater., 19 , 22 (2007) pp. 5230-5237
D51 Synthesis, Properties, and Structure of Benzo[1,2-b:4,5-b']bis[b]benzothiophene and Benzo[1,2-b:4,5-b']bis[b]benzoselenophene	H. Ebata T. Yamamoto E. Miyazaki K. Takimiya	Org. Lett., 9 , 22 (2007) pp. 4449-4502
D52 Highly Soluble [1]Benzothieno[3,2-b]benzothiophene (BTBT) Derivatives for High-Performance, Solution-Processed Organic Field-Effect Transistors	Hideaki Ebata Takafumi Izawa Eigo Miyazaki Kazuo Takimiya Masaaki Ikeda Hirokazu Kuwabara Tatsuto Yui	J. Am. Chem. Soc., 129 , 51 (2007) pp. 15732-15733
D53 On the Biradicaloid Nature of Long Quinoidal Oligothiophenes: New Experimental Evidences Guided by Theoretical Studies	R. P. Ortiz J. Casado V. Hernandez J. T. L. Navarrete P. M. Viruela K. Takimiya T. Otsubo	Angew. Chem. Int. Ed., 46 (2007) pp. 9057-9061
D54 Effects of annealing of poly(3-hexylthiophene) film on the performance of double-layered EL devices of ITO/polymer/Alq3/Mg-Ag	J. Ohshita Y. Tada A. Kunai Y. Harima A. Kohno Y. Kunugi	Synthetic Metals, 157 (2007) pp. 104-108
D55 Fluorescence properties of Si-linked oligothiophenes	M. Fujitsuka D.W. Cho J. Ohshita A. Kunai T. Majima	J. Phys. Chem. C, 111 (2007) pp. 1993-1998
D56 Synthesis of diarylenenaphthylene- and diaryleneanthrylene-containing organosilicon polymers and their applications to organic EL devices	J. Ohshita S. Kangai Y. Tada H. Yoshida K. Sakamaki A. Kunai Y. Kunugi	J. Organomet. Chem., 692 (2007) pp. 1020-1024
D57 Synthesis of organosilicon polymers containing donor-acceptor type pi-conjugated units and their applications to dye-sensitized solar cells	J. Ohshita S. Kangai H. Yoshida A. Kunai S. Kajiwara Y. Ooyama Y. Harima	J. Organomet. Chem., 692 (2007) pp. 801-805
D58 Palladium-catalyzed silation of adamantanediol and adamantanetriol, leading to adamantane-siloxane alternating polymers with high heat resistance	J. Ohshita K. Hino K. Inata A. Kunai T. Maehara	Polymer, 48 (2007) pp. 4301-4304

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D59 Palladium-catalyzed synthesis of poly(bromoalkoxy- and bromoalkanoyloxy)methylsiloxane)s from poly(hydromethylsiloxane)s	J. Ohshita K. Inata Y. Izumi A. Kunai	J. Organomet. Chem., 692 (2007) pp. 3526-3531
D60 Silicon-carbon unsaturated compounds. 72. Thermolysis of acylpolysilanes with diphenylketene	A. Naka N. Fujioka J. Ohshita J. Ikadai A. Kunai H. Kobayashi T. Miura M. Ishikawa	Organometallics, 26 (2007) pp. 5535-5542
D61 Synthesis of silicon-bridged polythiophene derivatives and their applications to EL device materials	J. Ohshita K. Kimura K.H. Lee A. Kunai Y.W. Kwak E.C. Son Y. Kunugi	Journal of Polymer Science Part a-Polymer Chemistry, 45 (2007) pp. 4588-4596
D62 Applications of Silicon-bridged Oligothiophenes to Organic FET Materials	J. Ohshita Y. Izumi D.H. Kim A. Kunai T. Kosuge Y. Kunugi A. Naka M. Ishikawa	Organometallics, 26 (2007) pp. 6150-6154
D63 Synthesis of Bis(diarylphosphino)dithienosilole Derivatives as Novel Photo- and Electroluminescence Materials	J. Ohshita Y. Kurushima K.H. Lee A. Kunai Y. Ooyama Y. Harima	Organometallics, 26 (2007) pp. 6591-6595
D64 Insertion of arynes into carbon-halogen σ -bonds: regioselective acylation of aromatic rings	H. Yoshida Y. Mimura J. Ohshita A. Kunai	Chem. Commun., (2007) pp. 2405-2407
D65 Straightforward construction of diarylmethane skeletons via aryne insertion into carbon-carbon σ -bonds	H. Yoshida M. Watanabe T. Morishita J. Ohshita A. Kunai	Chem. Commun., (2007) pp. 1505-1507
D66 Three-component coupling of arynes, aminosilanes, and aldehydes	H. Yoshida T. Morishita H. Fukushima J. Ohshita A. Kunai	Org. Lett., 9 (2007) pp. 3367-3370
D67 Three-component coupling using arynes and isocyanides: straightforward access to benzo-annulated nitrogen or oxygen heterocycles	H. Yoshida H. Fukushima T. Morishita J. Ohshita A. Kunai	Tetrahedron, 63 (2007) pp. 4793-4805
D68 Preparation of polyaniline coated activated carbon and their electrode performance for supercapacitor	H. Tamai M. Hakoda T. Shiono H. Yasuda	J. Mater. Sci., 42 , 4 (2007) pp. 1293-1298
D69 Synthesis of anilinonaphthoquinone-based nickel complexes and their application for olefin polymerization	M. Okada Y. Nakayama T. Shiono	J. Organomet. Chem., 692 , 23 (2007) pp. 5183-5189
D70 Synthesis and characterization of norbornene-ethylene-styrene terpolymers with a substituted <i>ansa</i> -fluorenyl amidodimethyltin-based catalyst	H. T. Ban K. Nishii Y. Tsunogae T. Shiono	J. Polym. Sci., Part A: Polym. Chem., 45 , 13 (2007) pp. 2765-2773

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D71 Homo- and copolymerization of norbornene derivatives with ethene by <i>ansa</i> -fluorenlyamidodimethyltitanium activated with methylaluminoxane	T. Hasan T. Ikeda T. Shiono	J. Polym. Sci., Part A: Polym. Chem., 45 , 20 (2007) pp. 4581-4587
D72 Copolymerization of propylene with 1,3-butadiene using isospecific zirconocene catalysts	T. Ishihara H. T. Ban H. Hagihara T. Shiono	J. Polym. Sci., Part A: Polym. Chem., 45 , 24 (2007) pp. 5731-5740
D73 Effect of cocatalysts on the catalytic activities of tantalum- and niobium-based catalysts for ring-opening metathesis polymerization of norbornene	Y. Nakayama M. Tanimoto T. Shiono	Macromol. Rapid Commun., 28 , 5 (2007) pp. 646-650
D74 Living ring-opening metathesis polymerization of exo-norbornenes bearing both cyano and ester functionalities by a well-defined ruthenium catalyst	Y. Nishihara Y. Inoue A. T. Saito Y. Nakayama T. Shiono K. Takagi	Polym. J., 39 , 4 (2007) pp. 318-329
D75 Synthesis of multiblock poly(L-lactide)- <i>co</i> -poly(ϵ -caprolactone) from hydroxy-telechelic prepolymers prepared by using neodymium tetrahydroborate	Y. Nakayama S. Okuda H. Yasuda T. Shiono	React. Funct. Polym., 67 , 9 (2007) pp. 798-806
D76 Cationic iron-catalyzed addition of carboxylic acids to olefins	Kimihiro Komeyama Yasuhiro Mieno Shotaro Yukawa Takayuki Morimoto Ken Takaki	Chemistry Letters, 36 , 6 (2007) pp. 752-753
D77 Cationic iron-catalyzed intramolecular hydroalkoxylation of unactivated olefins	Kimihiro Komeyama Takayuki Morimoto Ken Takaki	Tetrahedron Letters, 48 , 18 (2007) pp. 7335-7337
D78 Improvement of photovoltages in organic dye-sensitized solar cells by Li intercalation in particulate TiO ₂ electrodes	Y. Harima K. Kawabuchi S. Kajiwara A. Ishii Y. Ooyama K. Takeda	Appl. Phys. Lett., 90 (2007) pp. 103517-1-3
D79 Correlation between mobility enhancement and conformational change in polyaniline and its derivatives: Polaron lattice formation	Y. Harima F. Ogawa R. Patil X. Jiang	Electrochim. Acta, 52 (2007) pp. 3615-3620
D80 Influence of film structure on mobilities of charge carriers in conducting polymers	Y. Harima X. Jiang R. Patil K. Komaguchi H. Mizota	Electrochim. Acta, 52 (2007) pp. 8088-8095
D81 Light scattering at polyaniline films and its application to a kinetic study of polymer chain conformation	Y. Harima K. Kishimoto H. Mizota	Electrochim. Acta, 53 (2007) pp. 657-663
D82 A new technique to study kinetics of chain conformation in polyaniline films	Y. Harima K. Kishimoto F. Ogawa X. Jiang R. Patil	Polymer J., 39 (2007) pp. 296-297
D83 Solid state photoluminescence property of a novel POSS-based material having carbazole	I. Imae Y. Kawakami Y. Ooyama Y. Harima	Macromol. Sympo., 249/250 (2007) pp. 50-55
D84 Photovoltaic performance of dye-sensitized solar cells based on donor-acceptor π -conjugated benzofuro[2,3- <i>c</i>]oxazolo[4,5- <i>a</i>]carbazole-type fluorescent dyes with carboxyl group on different positions of chromophore skeleton	Y. Ooyama Y. Shimada Y. Kagawa I. Imae Y. Harima	Org. Biomol. Chem., 5 (2007) pp. 2046-2054

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D85 Bilayer polymer coating containing a polyaniline for corrosion protection of iron	J. Yano K. Nakatani Y. Harima A. Kitani	Mater. Lett., 61 (2007) pp. 1500-1503
D86 Synthesis of organosilicon polymers containing donor-acceptor type π -conjugated units and their applications to dye-sensitized solar cells	J. Ohshita S. Kangai H. Yoshida A. Kunai S. Kajiwara Y. Ooyama Y. Harima	J. Organometal. Chem., 692 (2007) pp. 801-805
D87 Effects of annealing of poly(3-hexylthiophene) film on the performance of double-layered EL devices of ITO/polymer/Alq ₃ /Mg-Ag	J. Ohshita Y. Tada A. Kunai Y. Harima A. Kohno Y. Kunugi	Synth. Metals, 157 (2007) pp. 104-108
D88 A transport study on as-grown and cast films of electrosynthesized poly(3-hexylthiophene)	X. Jiang Y. Harima R. Patil	Mater. Lett., 61 (2007) pp. 4687-4689
D89 Synthesis and solid-state fluorescence properties of structural isomers of novel benzofuro[2,3-c]-oxazolocarbazole-type fluorescent dyes	Y. Ooyama Y. Kagawa Y. Harima	Eur. J. Org. Chem., (2007) pp. 3613-3621
D90 Poly(N-methylaniline) microsphere formation and control of the average diameter by simple chemical polymerization	J. Yano K. Sanada R. Patil Y. Ooyama K. Komaguchi Y. Harima	Mater. Chem. Phys., 106 (2007) pp. 279-285
D91 Dye-sensitized solar cells based on novel donor-acceptor π -conjugated benzofuro[2,3-c]oxazolo[4,5-a]carbazole-type fluorescent dyes exhibiting solid-state fluorescence	Y. Ooyama A. Ishii Y. Kagawa I. Imae Y. Harima	New J. Chem., 31 (2007) pp. 2076-2082
D92 Synthesis of new-type donor-acceptor π -conjugated benzofuro[2,3-c]oxazolo[4,5-a]carbazole fluorescent dyes and their photovoltaic performances of dye-sensitized solar cells	Y. Ooyama Y. Shimada Y. Kagawa Y. Yamada I. Imae Y. Harima	Tetrahedron Lett., 48 (2007) pp. 9167-9170
D93 Synthesis of bis(diarylphosphino)dithienosilole derivatives as novel photo- and electroluminescence materials	J. Ohshita Y. Kurushima K-H. Lee A. Kunai Y. Ooyama Y. Harima	Organometal., 26 (2007) pp. 6591-6595
D94 An ESR and ENDOR study of irradiated 6Li-formate	K. Komaguchi Y. Matsubara M. Shiotani H. Gustafsson E. Lund A. Lund	Spectrochim. Acta, Part A, 66A (2007) pp. 754-760
D95 High-Resolution ESR Study of the H $\cdot\cdot\cdot$ CH ₃ , H $\cdot\cdot\cdot$ CHD ₂ , D $\cdot\cdot\cdot$ CH ₂ D, and D $\cdot\cdot\cdot$ CD ₃ Radical Pairs in Solid Argon	K. Komaguchi K. Nomura M. Shiotani	J. Phys. Chem. A , 114 (2007) pp. 726-733
D96 Bilayer Polymer Coating Containing a Polyaniline for Corrosion Protection of Iron	Jun Yano Kazumasa Nakatani Yutaka Harima Akira Kitani	Material Letters, 61 (2007) pp. 1500-1503
D97 Reduction of Oxygen at Polyaniline Electrodes Modified with Platinum and Iron	Akira Kitani Akihisa Yokoo Sotaro Ito	Electrochemistry, 75 , 2 (2007) pp. 182-183

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D98 High-Pressure Synthesis and Structure of New Barium Chromium Sulfides, BaCr4S7 and Ba2Cr5S10, with New Type Face-Sharing CrS6 Structure Unit	Hiroshi Fukuoka Yuji Miyaki Shoji Yamanaka	Bulletin of the Chemical Society of Japan, 80 , 11 (2007) pp. 2170-2176
D99 High-pressure Raman study of Ba doped type-III germanium clathrate Ba24Ge100 up to 26 GPa	H. Shimizu T. Fukushima T. Kume S. Sasaki H. Fukuoka S. Yamanaka	J. Appl. Phys., 101 (2007) pp. 1135311-1135315
D100 Raman and x-ray diffraction studies of Ba doped germanium clathrate Ba8Ge43 at high pressures	H. Shimizu T. Iitaka T. Fukushima T. Kume S. Sasaki N. Sata Y. Ohishi H. Fukuoka S. Yamanaka	J. Appl. Phys., 101 (2007) pp. 0635491-0635497
D101 Raman study of semiconductor clathrates under high pressure	T. Kume T. Fukushima S. Sasaki H. Shimizu H. Fukuoka S. Yamanaka	Phys. Status Solidi B, 244 , 1 (2007) pp. 352-356
D102 High-pressure Raman study on type-I germanium clathrate	T. Fukushima T. Kume S. Sasaki H. Shimizu H. Fukuoka S. Yamanaka	Phys. Status Solidi B, 244 , 1 (2007) pp. 392-396
D103 Water-tolerant, highly active solid acid catalysts composed of the keggin-type polyoxometalate H3PW12O40 immobilized in hydrophobic nanospaces of organomodified mesoporous silica	K. Inumaru T. Ishihara Y. Kamiya T. Okuhara S. Yamanaka	Angew. Chem.-Int. Edit., 46 , 40 (2007) pp. 7625-7628
D104 Ferromagnetic Cr _x Ti _{1-x} N solid solution nitride thin films grown by pulsed laser deposition and their magnetoresistance	K. Inumaru K. Koyama Y. Miyaki K. Tanaka S. Yamanaka	Appl. Phys. Lett., 91 , 15 (2007) pp. 1525011-1525013
D105 Controlling the structural transition at the Neel point of CrN epitaxial thin films using epitaxial growth	K. Inumaru K. Koyama N. Imo-Oka S. Yamanaka	Phys. Rev. B, 75 , 5 (2007) pp. 0544161-0544165
D106 Missing superconductivity in BaAlSi with the AlB ₂ type structure	S. Yamanaka T. Otsuki T. Ide H. Fukuoka R. Kumashiro T. Rachi K. Tanigaki F. Guo K. Kobayashi	Physica C, 451 , 1 (2007) pp. 19-23
D107 High-pressure Raman study on two modifications of BaAl ₂ Si ₂	H. Shimizu T. Kume Y. Narita S. Sasaki T. Kikudome S. Yamanaka	Phys. Status Solidi B, 244 (2007) pp. 357-361
D108 NMR studies of layered nitride superconductors	H. Tou M. Sera Y. Maniwa S. Yamanaka	Intern. J. Modern Phys. B, 21 , 18019 (2007) pp. 3340-3342

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D109 Promoting effect of Ru on Ni/Mg(Al)O catalysts in DSS-like operation of CH ₄ steam reforming	Takeshi Miyata Masato Shiraga Dalin Li Ikuo Atake Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	Catal. Commun., 8 (2007) pp. 447-451
D110 Partial oxidation of propane to synthesis gas over noble metals-promoted Ni/Mg(Al)O catalysts -High activity of Ru-Ni/Mg(Al)O catalyst	Masato Shiraga Dalin Li Ikuo Atake Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	Appl. Catal. A, 318 (2007) pp. 143-154
D111 Bromine addition and successive amine substitution of mesoporous ethylenesilica: Reaction, characterization and arsenate adsorption	Kojiro Nakai Yasunori Oumi Haruyuki Horie Tsuneji Sano Hideaki Yoshitake	Microporous Mesoporous Mater., 100 (2007) pp. 328-339
D112 Partial oxidation of propane over Ru promoted Ni/Mg(Al)O catalysts -Self activation and prominent effect of reduction-oxidation treatment of the catalyst-	Dalin Li Masato Shiraga Ikuo Atake Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	Appl. Catal. A, 321 (2007) pp. 155-164
D113 Structural and physico-chemical properties of high-silica mordnrite	Yasunori Oumi Takehide Kanai Baowang Lu Tsuneji Sano	Microporous Mesoporous Mater., 101 (2007) pp. 127-133
D114 Polymerisation of aminopropyltri-alkoxysilane in the presence of carboxylate: a new layered organosilica mesocomposite built up using intermolecular interactions with LB film-type self-assembly	Takayuki Chujo Yu Gonda Yasunori Oumi Tsuneji Sano Hideaki Yoshitake	J. Mater. Chem., 17 (2007) pp. 1372-1380
D115 Convenient conversion of crystalline layered silicate octosilicate into RWR type zeolite by acetic acid intercalation	Yasunori Oumi Takeshi Takeoka Takuji Ikeda Toshiro Yokoyama Tsuneji Sano	New J. Chem., 31 (2007) pp. 593-597
D116 Realumination of zeolite Y under acidic conditions	Yasunori Oumi Jo Takahashi Kazuyoshi Takeshima Hery Jon Tsuneji Sano	J. Porous Mater., 14 (2007) pp. 19-26
D117 Aluminum distribution in high-silica mordenite	Baowang Lu Takehide Kanai Yasunori Oumi Tsuneji Sano	J. Porous Mater., 14 (2007) pp. 89-96
D118 Catalytic behavior of ternary Cu/ZnO/Al ₂ O ₃ systems prepared by homogeneous precipitation in water &gas shift reaction	Ikuo Atake Kazufumi Nishida Dalin Li Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	J. Mol. Catal. A, 275 (2007) pp. 130-138
D119 Stabiized production of highly concentrated bioethanol from fermentation broths by Zymomonas mobilis by pervaporation using silicon rubber-coated silicalte membranes	Toru IKegami Hideyuki Negishi Hideshi Yanase Keiji Sakaki Masayoshi Okamoto Nobuyuki Koura Tsuneji Sano Kenji Haraya Hiroshi Yanagishita	J. Chem. Technol. Biotechnol., 82 (2007) pp. 745-751

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D120 Synthesis of a lamellar mesostructured calcium phosphate using hexadecylamine as a structure-directing agent in the ethanol/water solvent system	Nobuaki Ikawa Yasunori Oumi Tatsuo Kimura Takuji Ikeda Tsuneji Sano	Stud. Surf. Sci. Catal., 165 (2007) pp. 253-256
D121 Synthesis of layered organosilica binding with self-assembled LB film	Takayuki Chujo Yu Gonda Yasunori Oumi Tsuneji Sano Hideaki Yoshitake	Stud. Surf. Sci. Catal., 165 (2007) pp. 433-436
D122 Realumination of Y zeolite in ammonium salt solution	Yasunori Oumi Jou Takahashi Kazuyoshi Takeshima Tsuneji Sano	Stud. Surf. Sci. Catal., 170 (2007) pp. 604-609
D123 Role of ammonium fluoride in crystallization process of beta zeolite	Hery Jon Yasunori Oumi Keiji Itabashi Tsuneji Sano	J. Crystal Growth, 307 (2007) pp. 177-184
D124 Alkaline-mediated mesoporous mordenite zeolites for acid catalyzed conversions	Johan C. Groen Tsuneji Sano Jacob A. Moulijn Javier Perez-Ramirez	J. Catal., 251 (2007) pp. 21-27
D125 Estimation of spacing between 3-bromopropyl functions grafted on mesoporous silica surfaces by a substitution reaction using diamine probe molecules	Tomohisa Miyajima Sebastien Abry Wenjuan Zhou Belen Albela Laurent Bonneviot Yasunori Oumi Tsuneji Sano Hideaki Yoshitake	J. Mater. Chem., 17 (2007) pp. 3901-3909
D126 Self-activation and self-regenerative activity of trace Rh-doped Ni/Mg(Al)O catalysts in steam reforming of methane	Dalin Li Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	Appl. Catal. A, 332 (2007) pp. 98-109
D127 Steam reforming of CH ₄ over Ni-Ru catalysts supported on Mg-Al mixed oxide	Katsuomi Takehira Takenori Ohi Takeshi Miyata Masato Shiraga Tsuneji Sano	Topics Catal., 42-43 (2007) pp. 471-474
D128 Self-regenerative activity of Ni/Mg(Al)O catalysts with trace Ru during daily start-up and shut-down operation of CH ₄ steam reforming	Dalin Li Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	J. Catal., 250 (2007) pp. 299-312
D129 Enhancement of biodegradation of oil adsorbed on fine soils in a bioslurry reactor	T. Okuda, M. E. Alcantara-Garduno M. Suzuki C. Matsui T. Kose W. Nishijima M. Okada	Chemosphere, 68 (2007) pp. 281-286
D130 Separation of polyvinyl chloride from plastic Mixture by froth flotation after surface modification with ozone	T. Okuda K. Kurose W. Nishijima M. Okada	Ozone: Science & Engineering, 29 (2007) pp. 373-377
D131 Effects of ulvoid (<i>Ulva</i> spp.) accumulation on the structure and function of eelgrass (<i>Zostera marina</i> L.) bed	K. Sugimoto K. Hiraoka S. Ohta Y. Niimura T. Terawaki M. Okada	Marine Pollution Bulletin, 54 (2007) pp. 1582-1585

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D132 Separation of polyvinyl chloride (PVC) from automobile shredder residue (ASR) by froth flotation with ozonation	M. S. Reddy K. Keisuke T. Okuda W. Nishijima M. Okada	Journal of Hazardous Materials, 147 (2007) pp. 1051-1055
D133 Deactivation and reactivation of Pd/C catalyst used in repeated batch hydrodechlorination of PCE	C. Neil C T. Okuda W. Nishijima M. Okada	Applied Catalysis, B: Environmental, 71 (2007) pp. 64-69
D134 Estrogenic activity removal of ethynodiol by nitrifying activated sludge and microorganisms involved in its degradation	J. H. Shi M. Nishikawa S. Fujisawa M. Takada S. Nakai M. Hosomi	Environmental Sciences, 14 (2007) pp. 1-16
D135 Polychlorinated dibenzothiophenes in Japanese environmental samples and their photodegradability and dioxin-like endocrine-disruption potential	S. Nakai S. Kishita Y. Nomura M. Hosomi	Chemosphere, 68 (2007) pp. 1852-1857
D136 Calcium accumulation onto GAC used for landfill leachate treatment and its effects on 2,4-DCP adsorption	E. R. Mino T. Okuda W. Nishijima M. Okada	Journal of Chemical Engineering of Japan, 40 (2007) pp. 275-279
D137 Production of assimilable organic carbon (AOC) from bacteria and picophytoplanktons by chlorination	T. Okuda Y. Uehara T.-Y. Tsai S. Nakai M. Akiba W. Nishijima M. Okada	2nd IWA-ASPIRE Conference, (2007)
D138 Separation of Poly(vinyl chloride) (PVC) from automobile shredder residue (ASR) by selective surface modification with ozone and froth flotation	T. Okuda K. Kurose M. S. Reddy W. Nishijima M. Okada	2007 IOA-IUVA Joint World Congress, (2007)
D139 Catalytic hydrodechlorination of tetrachloroethylene at mild conditions on nano-carbon supported Pd catalysts	T.-Y. Tsai T. Okuda Y. Nakano Y.-Y. Li W. Nishijima M. Okada	AIChE Annual Meeting, (2007)
D140 Polymers recycling from automobile shredder residue (ASR): Separation of poly vinyl chloride (PVC) from ASR by froth flotation with ozonation	M. S. Reddy K. Kurose T. Okuda W. Nishijima M. Okada	The 22nd International Conference on Solid Waste Technology and Management, (2007)
D141 Benthic ecosystem developed in artificial tidal flat constructed with dredged soil.	Ryo ISHII Satoshi NAKAI Wataru NISHIJIMA Mitsumasa OKADA	Proceedings of the Third International Conference on Environmental Science and Technology, (2007)
D142 Allelopathic growth inhibition of the cyanobacterium <i>Microcystis aeruginosa</i> by aquatic and terrestrial plants	Satoshi NAKAI Guoyan ZOU Xiangfu SONG Qi PAN Sheng ZHOU Masaaki HOSOMI	Proceedings of the 14th seminar of JSPS-MOE Core University Program on Urban Environment, (2007) pp. 169-178
D143 Indirect heating treatment of dioxins-contaminated sediment using a catalyst to accelerate degradation of dioxins	Satoshi NAKAI Etsuko YOSHIMOTO Masato FUJITA Tomio SUGIMOTO Makoto TAKADA Masaaki HOSOMI	Organohalogen Compounds, 69 (2007) pp. 2532-2535
D144 Effect of different adsorption/desorption properties and biodegradability of chemicals on the performance of powdered activated carbon (PACT) processes	Yoichi Nakano Tri Widjaja Tomonori Miyata Wataru Nishijima Mitsumasa Okada	Journal of Water and Environment Technology, 5 , 2 (2007) pp. 71-78

Paper Title	Author Name	Journal, Vol., No. (Year) Page
D145 EFFECTS OF PRETREATMENTS ON CALCIUM ACCUMULATION ONTO GAC	Esteban R. Mino Tetsuji Okuda Watari Nishijima Mitsumasa Okada	Journal of Water and Environment Technology, 5, 2 (2007) pp. 109-116

E. Social and Environmental Systems Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E1 Flexural Behavior of Reinforced Recycled Concrete Beams	Ryoichi Sato Ippei Maruyama Takahisa Sogabe Masaru Sogo	Journal of Advanced Concrete Technology, 5, 1 (2007) pp. 46-61
E2 Serviceability Performance Evaluation of RC Flexural Members Improved by Using Low Shrinkage-High Strength Concrete	Makoto Tanimura Ryoichi Sato Yoichi Hiramatsu	Journal of Advanced Concrete Technology, 5, 2 (2007) pp. 1-13
E3 Flexural Serviceability Performance with Time of Reinforced Low-Shrinkage High-Strength Concrete Beams and Its Evaluation Method	Makoto Tanimura Ryoichi Sato	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007) pp. 131-140
E4 Strength and Shrinkage of Ultra-HSC Cured Internally by Porous Ceramic Waste	Masahiro Suzuki Takashi Oh-ura Shinya Nakagawa Ryoichi Sato	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007) pp. 141-148
E5 Shrinkage Effect on Diagonal Tension Strength and Its New Evaluation Concept of Reinforced HSC Beams	Hajime Kawakane Ryoichi Sato	Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007) pp. 149-158
E6 Effects of Size and Shrinkage on Shear Strength of Reinforced High Strength Concrete Beams	Hajime Kawakane Takuma Ohga Ryoichi Sato	Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2007) pp. 6p. (in CD-ROM)
E7 A Proposal of Simple Design Equations for Evaluating Flexural Serviceability Performance of Reinforced High- and Low-shrinkage HSC Beams	Makoto Tanimura Ryoichi Sato	ACI SP-246, (2007) pp. 181-200 (in CD-ROM)
E8 Numerical Analysis of the Effect of Shrinkage on Flexural Deformation and Crack Width	Isao Ujike Ryoichi Sato Ippei Maruyama Makoto Tanimura Masahiro Suzuki	ACI SP-246, (2007) pp. 201-216 (in CD-ROM)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E9 Shrinkage Effect on Shear Strength of Reinforced High Strength Concrete Beams	Ryoichi Sato Hajime Kawakane Takuto Kawamoto Ryota Ushio Ippei Maruyama	ACI SP-246, (2007) pp. 261-278 (in CD-ROM)
E10 Resistance to Sulfuric Acid of Mortar Using Acid-Resistant Cement	Kenji Kawai Takeo Ishida Akihiro Sako Shinsuke Higuchi Nobukazu Nito	Proceedings of the 5th International Conference on Concrete under Severe Conditions Environment and Loading, Tours, 1 (2007) pp. 579-588
E11 A Case Study on Environmental Impact Assessment of Precast Concrete Products with a Revegetation Function	Kenji Kawai Akihiro Fujiki	Proceedings of Special Sessions, International Conference on Sustainable Construction Materials and Technologies, Coventry, (2007) pp. 163-176
E12 JSCE Recommendation on Environmental Performance Verification for Concrete Structures (Draft) and Its Application	Kenji Kawai Koji Sakai	Proceedings of the 4th Civil Engineering Conference in the Asian Region, Taipei, (2007) pp. 5p. (in CD-ROM)
E13 Modeling for Decomposition Processes of Friedel's Salt Due to Carbonation	Takeo Ishida Kenji Kawai Ryoichi Sato	Proceedings of the 5th International Conference on Concrete under Severe Conditions Environment and Loading, Tours, 1 (2007) pp. 233-240
E14 A Study on Fixation of Chloride Ion by Cement Hydrates	Takeo Ishida Kenji Kawai Daigo Ichiba	Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2007) pp. 6p. (in CD-ROM)
E15 DYNAMIC FOLDING ANALYSIS FOR MULTI-FOLDING STRUCTURES UNDER IMPACT LOADING	Ichiro Ario Andrew Watson	Int. J. of Sound and Vibration, 308 (2007) pp. 591-598
E16 Local/Global Structural Instability based on Multi-Folding Microstructure Theory	Ichiro Ario	Theoretical and Applied Mechanics, 56 (2007) pp. 95-102
E17 Fundamental Analysis on Multi-Folding Behaviour for Flexible Light Structures	Ichiro Ario	The proceedings of Space Structures and Materials (JAXA), 22 (2007) pp. 83-86
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E21 Elastic Instability for Pantographic Folding Structures Based on Multi-Folding Microstructure Theory	Ichiro ARIOS Piotr Pawlowski	Proc. of Smart Structures and Materials, ECCOMAS THEMATIC CONFERENCE, (2007)
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
E23 Nonlinear Dynamic Snap-through with a Saddle Singular Point on DUFFING's System	Ichiro Ario Andrew Watson	Proc. of International Conference on Computational Methods, International Conference Center Hiroshima, (2007)
E24 Reference Frequencies for the validation of Numerical Solutions to the Transverse Vibrations of Tapered Timoshenko Beam-columns	Andrew Watson Ichiro Ario	Proc. of International Conference on Computational Methods, International Conference Center Hiroshima, (2007)
E25 Ultimate Slip Behavior of Double-lined Perfobond Rib Connector	Masahiro Himukai Katashi Fujii Kazuhiro Fukada Yuuichi Doukan	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 1 (2007) pp. 155-160
E26 Collapse Mode of Plate Girder with Thick Flange under Bending	Mitsuo Irikawa Katashi Fujii Hideharu Nakamura Yauyuki Ogawa	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 1 (2007) pp. 173-178
E27 Experiments on Ultimate Bending Strength of Corroded thin Cylindrical Shells	Kazuaki Hashimoto Tsuneki Kondoh Hideharu Nakamura Katashi Fujii	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 1 (2007) pp. 213-218
E28 An Estimation of Slip Strength of Perfobond Rib Connector Considered with Concrete Confinements	Katashi Fujii Masahiro Himukai Hatsumi Iwasaki Yuuichi Doukan	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 1 (2007) pp. 447-454
E29 Numerical and Experimental Studies on Active Control of Structures Using Hyper Vision Technology	Junichiro Motoyama Takeshi Nakayama Hideharu Nakamura Idaku Ishii	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 2 (2007) pp. 945-950
E30 Seismic Response Characteristics of Multi-Span Continuous Rigid-Frame Bridge Constructed on Soft Ground	Kazuataka Kinoshita Hiideharu Nakamura Katashi Fujii yusuke Fujiwara	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), 2 (2007) pp. 1031-1036
E31 Ultimate Slip Behaviour of Perforated Rib Shear Connectors in a Circular Steel tube	Kentaro Mori Katashi Fujii Masahiro Himukai Yuuichi Doukan	Proc. of the MDCMS 1-Vietnam 1st Int. Conf. on Modern Design, Construction and Maintenance of Structures, 1 (2007) pp. 157-162
E32 Required Measured Points for Evaluating Remaining Strength of Corroded Circular Steel Column	Yoshihiko Tokinori Katashi Fujii Kazuaki Hashimoto Tsuneki Kondoh	Proc. of the MDCMS 1-Vietnam 1st Int. Conf. on Modern Design, Construction and Maintenance of Structures, 2 (2007) pp. 322-329
E33 A practical method of design parameters identification for seismic design of embankments considering heterogeneity of soils	Yoshiya Hata Koji Ichii Takashi Tsuchida Seiji Kano Norihiko Yamashita	International Conference on Civil and Environmental Engineering (ICCEE-2007), (2007)
E34 New Design Method on Bearing Capacity of Rubble Mound of Composite Breakwater with Consideration of Deformation	Tsuchida T Tan Y.X Watabe Y Ishikura K	Soils and Foundations, 47 , 2 (2007) pp. 219-235
E35 Mechanical Properties of Lightweight Treated Soil Cured in Water Pressure	Takashi Tsuchida Yi Xin Tang Yoichi Watabe	Soils and Foundations, 47 , 4 (2007) pp. 731-748
E36 Local Failures of Embankments during Earthquakes	Seiji Kano Yasushi Sasaki Yoshiya Hata	Soils and Foundations, 47 , 6 (2007) pp. 1003-1015

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E37 A Study on the applicability of the modified Newmark method (Paper No.1307)	Yoshiya Hata Norihiko Yamashita Takashi Tsuchida Seiji Kano	The 4th International Conference on Earthquake Geotechnical Engineering (Thessaloniki, Greece), (2007)
E38 Determination of Shear Strength Parameters of Natural Masado Slopes	Athapaththu A.M.R.G Tsuchida T Suga K	ISOPE 2007 (Lisbon Portugal), 2 (2007) pp. 1205-1212
E39 Numerical analysis on the seismic response of liquefiable ground improved by the prefabricated drains	Seiji Kano Yoshiya Hata Ross W. Boulanger Ronnie Kamai	International Conference on Civil and Environmental Engineering 2007 (ICCEE-2007 Hiroshima Japan), (2007)
E40 Study on Variance of Undrained Shear Strength from Cone Penetration Test and Laboratory Test	Yamane N Fukasawa K Hirabayashi H Tsuchida T	3rd China-Japan Geotechnical Symposium (Chongqing China), (2007) pp. 669-677
E41 Mechanical Properties of Lightweight Treated Soil under Water Pressure	Y.X. Tang T.Tsuchida	International Symposium on Earth Reinforcement (IS-Kyushu Fukuoka Japan), (2007) pp. 351-356
E42 Movement and washout of fines in sand layer under on-dimensional water pressure change	T Tsuchida K Ichi R Asaumi	The 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (Mumbai India), (2007)
E43 Modeling group decision-making mechanisms in household travel behavior theories and an application	Junyi Zhang Akimasa Fujiwara Masashi Kuwano	Journal of the Eastern Asia Society for Transportation Studies, 7 (2007)
E44 Representing household vehicle holding duration with heterogeneous distributions based on latent class approach	Masashi Kuwano Junyi Zhang Akimasa Fujiwara	Journal of the Eastern Asia Society for Transportation Studies, 7 (2007)
E45 A discrete choice model with dynamic social interaction: Framework and application to household choice of vehicle type	Masashi Kuwano Akimasa Fujiwara Junyi Zhang	World Conference on Transport Research, (2007)
E46 Development of household vehicle holding duration model incorporating multiple-peak distributions	Masashi Kuwano Junyi ZHANG Akimasa FUJIWARA	International Conference on Civil and Environmental Engineering, (2007)
E47 A household time allocation model incorporating weekday-weekend interdependency	Shogo Masuda Junyi ZHANG Masashi Kuwano Akimasa FUJIWARA Makoto Tsukai	International Conference on Civil and Environmental Engineering, (2007)
E48 Influence on rank-size rule for distribution centers under the innovations in logistics	Makoto Okumura Makoto Tsukai	The 2nd International Conference on Transportation Logistics, (2007)
E49 Rail Inter-modal network design under hub capacity constraint	Makoto Okumura Makoto Tsukai	Journal of the Eastern Asia Society for Transportation Studies, 7 (2007)
E50 Gas transport parameters along field transects of a volcanic ash soil.	A. C. Resurreccion K. Kawamoto T. Komatsu P. Moldrup N. Ozaki D. E. Rolston	Soil Science, 172 , 1 (2007) pp. 3-16
E51 Quantification of anaerobic ammonium-oxidizing bacteria in enrichment cultures by real-time PCR.	I. Tsushima T. Kindaichi S. Okabe	Water Research, 41 , 4 (2007) pp. 785-794
E52 Polycyclic aromatic hydrocarbons (PAHs) in the aerosol of Higashi Hiroshima, Japan, pollution scenario and source identification.	Y. W. F. Tham N. Ozaki H. Sakugawa	Water, Air, & Soil Pollution, 182 , 1-4 (2007) pp. 235-243
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
E54 Performance comparison of a pilot-scale UASB and DHS system and activated sludge process for the treatment of municipal wastewater	M. Tandukar A. Ohashi H. Harada	Water Research, 41 , 12 (2007) pp. 2697-2705
E55 Isolation of key methanogens for global methane emission from rice paddy fields: a novel isolate affiliated with the clone cluster rice cluster I.	S. Sakai H. Imachi Y. Sekiguchi A. Ohashi H. Harada Y. Kamagata	Applied and Environmental Microbiology, 73 , 13 (2007) pp. 4326-4331
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E60 Economic evaluation of sewage treatment processes in India.	N. Sato T. Okubo T. Onodera L. Agrawal A. Ohashi H. Harada	Journal of Environmental Management, 84 (2007) pp. 447-460
E61 Bellilinea caldifistulae gen. nov., sp. nov. and Longilinea arvoryzae gen. nov., sp. nov., strictly anaerobic, filamentous bacteria of the phylum Chloroflexi isolated from methanogenic propionate-degrading consortia.	T. Yamada H. Imachi A. Ohashi H. Harada S. Hanada Y. Kamagata Y. Sekiguchi	International Journal of Systematic and Evolutionary Microbiology, 57 , 10 (2007) pp. 2299-2306
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E63 Effect of meteorological elements on the behavior of atmospheric polycyclic aromatic hydrocarbons.	K. Kojima T. Kindaichi N. Ozaki	International Conference on Civil and Environmental Engineering ICCEE-2007, (2007)
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E65 Analysis of microbial interaction in ANAMMOX reactors.	S. Yuri T. Kindaichi N. Ozaki	International Conference on Civil and Environmental Engineering ICCEE-2007, (2007)
E66 Modeling of inundation flow in urbanized area using a high-resolution method with cartesian mesh	Tatsuhiko Uchida Yoshihsa Kawahara Yasushi Ito	Proc. 32nd IAHR Congress, (2007)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E67 Numerical simulation of local scour process due to submerged jet downstream of a groundsill	Tatsuhiko Uchida Shoji Fukuoka	Proc. 32nd IAHR Congress, (2007)
E68 Velocity distribution under low relative depth in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 9th Int. Summer Symposium, JSCE, (2007) pp. 87-90
E69 Attenuation of flood flow in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 9th Int. Summer Symposium, JSCE, (2007) pp. 91-94
E70 Experimental and numerical study on inundation flows caused by dyke break	Yasushi Ito Tatsuhiko Uchida Yoshihisa Kawahara	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
E71 Sensitivity analysis of roughness of floodplains on 2-D numerical results to estimate discharge hydrograph	Yu Morishita Tatsuhiko Uchida Yoshihisa Kawahara	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
E72 Velocity distribution in a doubly meandering compound channel under unsteady flow condition	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
E73 Flow pattern in a doubly meandering compound channel under steep gradient	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 5th Int. Symp. on Environmental Hydraulics (ISEH-V), (2007)
E74 Primary velocity distribution in a doubly meandering compound channel under steady flow condition	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 5th Int. Symp. on Environmental Hydraulics (ISEH-V), (2007)
E75 The motion of suspended particles in cellular flow	Kiyosi Kawanisi Peter Nielsen Mohmoud F. Maghrebi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
E76 Measurement of concentration and size of suspended sediment using an acoustic Doppler velocimeter	Kiyosi Kawanisi Tomoya Yokoyama Mohmoud F. Maghrebi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
E77 Discharge estimation in tidal rivers with partially reverse flow	Mohammad Givehchi Mohmoud F. Maghrebi Kiyosi Kawanisi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
E78 Influence of the Kuroshio stream path variation on current fields in the Seto Inland Sea	Katsuaki Komai Tadashi Hibino Yasushi Matsunaga	Proceedings of the 14th PAMS/JCSS Workshop, (2007) pp. 244-247
E79 The groundwater flow mechanism in the Ota River estuary and the formation of high turbidity layer in Hiroshima Bay	Seiji Hanabata Katsuaki Komai Shinya Nakashita Tadashi Hibino Masamitsu Mizuno	Proceedings of the Fourth International Conference on Asian and Pacific Coasts, (2007) pp. 968-979
E80 Characteristics of Groundwater Flow and Tidal Flat Formed by River Structures in the Ota River Estuary	Shinya Nakashita Tadashi Hibino Katsuaki Komai	Proceedings of International Conference on Civil and Environmental Engineering, (2007)
E81 A settling model of suspended organic matter for a coastal region	Hisaya Nishimura Masataka Imagawa Katsuaki Komai	Proceedings of International Conference on Civil and Environmental Engineering, (2007)
E82 The Characteristics of Organic Matters Circulation in Hiroshima Bay	Nakashita Shinya Kyung-hoi Kim Tadashi Hibino Yasushi Matsunaga	Proceedings of the Third International Conference on Asian and Pacific Coasts, (2007) pp. 2051-2062
E83 Sea Level Relation at Two Open Sea Boundaries of The Seto Inland Sea	Kyung-hoi Kim Tadashi Hibino Yasushi Matsunaga	Proceedings of the Third International Conference on Asian and Pacific Coasts, (2007) pp. 744-757
E84 A Strip Method for a Laterally Drifting Ship in Waves	Faizul Amri Adnan Hironori Yasukawa	J. Marine Science and Technology, 12, 3 (2007) pp. 139-149

Published Papers

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E85 Maneuvering Simulations of Tow and Towed Ships	Hironori Yasukawa Nobuaki Nakamura Noritaka Hirata Koh Kho King	International Conference on Towing & Salvage of Disabled Tankers, (2007) pp. 73-82
E86 A Coupled Eulerian-Lagrangian Method for Free Surface Problems	Hidemi Mutsuda Odd M Faltinsen	Proc. of International Conference on Violent Flows (VF-2007), (2007) pp. 227-234
E87 High Performance LES on Earth Simulator: A Challenge for Vehicle Aerodynamics	Makoto Tsubokura Kozo Kitoh Nobuyuki Oshima Takuji Nakashima Huilai Zhang Keiji Onishi Toshio Kobayashi Simone Sebben	FISITA Transactions 2006, (2007)
E88 LARGE-EDDY SIMULATION OF A GAS-TURBINE COMBUSTOR USING 2-SCALAR FLAMELET APPROACH	Takuji Nakashima Nobuyuki Oshima	Proc. of 5th Joint ASME/JSME Fluids Engineering Conference, (2007)
E89 Numerical prediction of the combustion flow in a premixed combustor using LES and a Two-scalar flamelet approach	Takuji Nakashima Nobuyuki Oshima Masashi Wakita	Proc. of International Gas Turbine Congress 2007 Tokyo, (2007)
E90 CURRENT STATUS ON HIGH PERFORMANCE COMPUTING FOR VEHICLE AERODYNAMICS USING LARGE EDDY SIMULATION	Makoto Tsubokura Takuji Nakashima Nobuyuki Oshima Kozo Kitoh Huilai Zhang Keiji Onishi Toshio Kobayashi	Proc. of 5th Joint ASME/JSME Fluids Engineering Conference, (2007)
E91 High Performance Computing for the Assessment of Unsteady Aerodynamic Forces on Vehicles Using Large Eddy Simulation	Makoto Tsubokura Takuji Nakashima Nobuyuki Oshima Kozo Kitoh Huilai Zhang Keiji Onishi Toshio Kobayashi	Progress in Vehicle Aerodynamics and Thermal Management V, (2007) pp. 83-98
E92 Large Eddy Simulation of Unsteady Flow around a Formula Car on Earth Simulator	Makoto Tsubokura Kozo Kitoh Nobuyuki Oshima Takuji Nakashima Huilai Zhang Keiji Onishi Toshio Kobayashi	Proc. of SAE 2007 World Congress, (2007)
E93 Large Eddy Simulation on the Underbody Flow of the Vehicle with Semi-Complex Underbody Configuration	Kozo Kitoh Shouta Chatani Nobuyuki Oshima Takuji Nakashima Simone Sebben	Proc. of SAE 2007 World Congress, (2007)
E94 COMPUTATIONAL VISUALIZATION OF UNSTEADY FLOW AROUND VEHICLES USING HIGH PERFORMANCE COMPUTING	Makoto Tsubokura Toshio Kobayashi Takuji Nakashima Takahide Nouzawa Takaki Nakamura Huilai Zhang Keiji Onishi Nobuyuki Oshima	Proc. of 9th Int. Symp. Fluid Control, Measurement and Visualization, (2007)
E95 Image features and wave height measurements by satellite SAR data around the coral reef	Sakuno Yuji Oomae Kazuhiro	Proc. 14th PAMS/JECSS Workshop, Hiroshima, (2007)
E96 Estimation of anoxic water distribution in Hiroshima Bay using satellite thermal image	Sakuno Yuji	Journal of Coastal Research, SI 50 (Proceedings of the 9th International Coastal Symposium), (2007) pp. 1023-1028

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E97 Accurate imaging of 3D tidal current structures of Hiroshima Bay by the coastal acoustic tomography data	Ju Lin Arata Kaneko Hong-Quang Nguyen Noriaki Gohda Huan Wang	Proc. 14th PAMS/JECSS Workshop, Hiroshima (2007) pp. 248-251
E98 Coastal acoustic tomography experiment in a narrow channel	Naokazu Taniguchi Arata Kaneko Yudi Adiyyawarman Noriaki Gohda Yoshio Takasugi	Proc. 14th PAMS/JECSS Workshop, Hiroshima (2007) pp. 149-152
E99 Annual variation of the southern boundary current in the Banda Sea	Fadli Syamsudin Hendrick van Aken Arata Kaneko Yuji Kashino	Proc. 14th PAMS/JECSS Workshop, Hiroshima (2007) pp. 29-33
E100 A numerical study of the Bifurcation Current and the Eastward Current in the Bungo Channel, Japan	Masazumi Arai	Proc. 14th PAMS/JECSS Workshop, Hiroshima (2007) pp. 238-241
E101 Sea level variations around Honshu, Japan.	Hideo Nakajima	Proc. 14th PAMS/JECSS Workshop, Hiroshima (2007) pp. 139-140
E102 Structural Safety Assessment of Pontoon-Type VLFS in Waves Considering Damage to the Break Water	Masahiko Fujikubo Kazuhiro Yamamura	Proc. of International Maritime-Port Technology and Development Conference, (2007) pp. 373-379
E103 Buckling/Ultimate Strength of Ship Bottom Plating with Staggered Carling under Thrust	Shoichi Ishimatsu Masahiko Fujikubo Yasuyuki Ohtsuki	Proc. of The 21st Asian Technical Exchange and Advisory Meeting on Marine Structure, (2007) pp. 135-142
E104 Collapse Analysis of Ship's Double Bottom Structures with ISUM	Kinya Ishibashi Masahiko Fujikubo Tetsuya Yao	Proc. of International Conference on Computational Methods in Marine Engineering, (2007) pp. 59-62
E105 Collapse Analysis of Very Large Floating Structure in Waves Using Idealized Structural Unit Method	Masahiko Fujikubo Olaru V, Daniel	Proc. of International Conference on Computational Methods in Marine Engineering, (2007) pp. 63-66
E106 An Adaptive Wavelet Finite Element Method with High-Order B-spline Basis Functions	Satoyuki Tanaka Hiroshi Okada	Key Engineering Materials, (2007)
E107 An Adaptive B-spline Wavelet Galerkin Method for the Analyses of Elastostatics	Satoyuki Tanaka Hiroshi Okada	Proceedings of International Conference on Computational Methods 2007 (ICCM2007), (2007) pp. 307
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E111 Eulerian Formulation using Stabilized Finite Element Method for Large Deformation Solid Dynamics	Shigenobu Okazawa, Kazuo Kashiwayama Yasuhide Kaneko	International Journal for Numerical Methods in Engineering, 72 (2007) pp. 1544-1559
E112 Full Eulerian formulation for solid-fluid interaction	Shigenobu Okazawa Kenji Nakao Rafael Doig	Conference abstracts of International Conference on Computational Methods, (2007) pp. 281

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E113 Bifurcation Analyses for Ductile Necking Behavior	Shigenobu Okazawa	9th U.S. National Congress on Computational Mechanics, (2007)
E114 Application fields of a multi-material Eulerian finite element method	Rafael Doig Patruck Keating Shigenobu Okazawa	Conference abstracts of International Conference on Computational Methods, (2007) pp. 16
E115 Modification of Finite Element Solution for Complicated Structures by Post Processing Technique based on Mechanics	Mitsuru Kitamura Hideomi Ohtsubo	Computational Methods, Springer, 1, 1 (2007) pp. 597-608
E116 Neural Network System with Lead Factor as Alternative Method for Structure Analysis by Finite Element Method	Mitsuru Kitamura Kunihiro Hamada Kaharuddin Djenodo	Computational Methods, Springer, 1, 1 (2007) pp. 867-875
E117 Multi-step Optimization Method and its Application to the Design of Mid-ship Section of Ship Structure	Mitsuru Kitamura Kunihiro Hamada Akihiro Takezawa Tetsuya Uedera Hiroki Suzuki Kouhei Kanaikari Toshio Tanigawa	Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)
E118 A Study on Size and Thickness Optimizations for the Bottom Structure of Ship	Mitsuru Kitamura Kunihiro Hamada Tetsuya Uedera Akihiro Takezawa Takahiro Takaki Masayuki Tomochika Hiroshi Yamamoto	Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)
E119 Shape optimization of ship structure by multiple point constraint and individual mesh sub-division techniques	Mitsuru Kitamura Kunihiro Hamada Takahiro Takaki Kunpei Kanaya	Proceedings of Second International Conference on Computational Methods, (2007)
E120 Development of optimal structure design system for mid-ship section	Mitsuru Kitamura Kunihiro Hamada Hiroki Suzuki Kanae Yano	Proceedings of Second International Conference on Computational Methods, (2007)
E121 A study on Transportation Network in Greater Mekong Subregion	Punayangkool, K. Hamada, K. Kose, K.	Proceedings of the 21th Asian Technical Exchange and Advisory Meeting on Marine Structure , (2007) pp. 357-364
E122 Structural optimization based on topology optimization techniques using frame elements considering cross-sectional properties	Akihiro Takezawa Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura	Structural and Multi-disciplinary Optimization, 34, 1 (2007) pp. 41-60
E123 A Conceptual Design Support Methodology Based On Structural Optimization Techniques Using Function-Oriented Elements	Akihiro Takezawa Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura Kogiso Nozomu	Proceedings of ICED'07: International Conference On Engineering Design 71, (2007)
E124 Structural Optimization Method Using Discrete Elements for Multi-Band-Gap Structures	Akihiro Takezawa Katsuya Mogami Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura Kogiso Nozomu	Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)
E125 Control factors of spatial variation of long-period strong ground motions in the Yufutsu sedimentary basin, Hokkaido, during Mw 8.0 2003 Tokachi-oki, Japan, Earthquake	K. Hatayama T. Kanno K. Kudo	Bulletin of the Seismological Society of America, 97 (2007) pp. 1308-1323
E126 Seismic Performance of Reinforced Concrete Columns Retrofitted with Carbon Fiber Reinforced Polymer Strips	Hideo Araki Ryoichi Sato Kenji Kabayama Masanori Nakata	Proceeding of the 6th International Conference on FracMCoS, 2 (2007) pp. 1121-1129

Paper Title	Author Name	Journal, Vol., No. (Year) Page
E127 A Study on the Water and Energy Consumption in Nursing Homes for the Elderly	Daisaku Nishina Saburo Murakawa Hiroshi Takata Takanori Itai	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 3-13
E128 A Study on Bathing Behavior and Hot Water Usage in Nursing Homes for the Aged	Akiko Takaaze Saburo Murakawa Daisaku Nishina Takanori Itai	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 15-24
E129 A Study on the Loads of Hot Water Consumption in Houses with the Hot Water Storage Tank System (Part 1) An Analysis of the Hot Water Usage and the Loads of Hot Water Consumption	Naoki Yamamoto Saburo Murakawa Hiroshi Takata Hiroki Kitayama Yasuhiro Hamada Minako Nabeshima	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 39-47
E130 A Study on the Loads of Hot Water Consumption in Houses with the Hot Water Storage Tank System (Part 2) Calculation for the Loads of Hot Water Consumption	Hiroshi Takata Saburo Murakawa Naoki Yamamoto Hiroki Kitayama Yasuhiro Hamada Minako Nabeshima	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 49-60
E131 Calculation for the Cold and Hot Water Demands in the Guest Rooms of City Hotel	Saburo Murakawa Yasuo Koshikawa Hiroshi Takata Atsushi Tanaka	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 73-85
E132 Study on the Corrosion of Steel and Zinc with Flow Velocity and Corrosion Control by the Vacuum Membrane	Toshihiro Yamate Saburo Murakawa	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 343-355
E133 Present State and Future Challenge on Installation Number of the Sanitary	Hiroyuki Kose Yoshihisa Nagao Yuri Nakagawa Saburo Murakawa	Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 369-380
E134 Dynamism of the Hiroshima Peace Memorial as Time and Space Aspects of Kansei	Shoichiro Sendai	International Conference on Kansei Engineering and Emotion Research 2007, (2007)
E135 The Oral Explanation of Peace and the Change of Landscape after the Second World War in Hiroshima	Shoichiro Sendai Hisa Yokoyama	International Society for Universal Dialogue (ISUD), (2007)
E136 Development of Hiroshima Castle as Peace Facility	Shoichiro Sendai	International Institute for Peace through Tourism, (2007)

F. Research Center for Nanodevices and Systems

Paper Title	Author Name	Journal, Vol., No. (Year) Page
F1 Electrical Properties of TiO/LaTiO/TiO Stacked Thin Films	H. Hara M. Tanioku M. Yamato T. Kikkawa	Ext. Abst. of Inter. Conf. on Solid State Devices and Materials, (2007) pp. 1148-1149
F2 SrNbO ₃ /Nb ₂ O ₅ Laminated Thin Films for Gigabit DRAM Capacitor Cell	M. Yamato H. Hara M. Tanioku T. Kikkawa	Abst. of 2007 Material Research Society Fall Meeting, (2007) pp. 302

Paper Title	Author Name	Journal, Vol., No. (Year) Page
F3 Characteristics of TiO ₂ /Al ₂ O ₃ /TiO ₂ Sandwich Structures for Next Generation DRAM Capacitor Cell	H. Hara M. Tanioku M. Yamato T. Kikkawa	Abst. of 2007 Material Research Society Fall Meeting, (2007) pp. 302
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F14 Plasma-Enhanced Co-Polymerization of Organo-siloxane and Hydrocarbon for Low-k/Cu Interconnects	Jun Kawahara Akinori Nakano Nobutaka Kunimi Keizo Kinoshita Yoshihiro Hayashi Akira Ishikawa Yutaka Seino Tetsuro Ogata Yuzuru Sonoda Takenobu Yoshino Takashi Goto Syozo Takada Hidenori Miyoshi Hisanori Matsuo Takamaro Kikkawa	Japanese Journal of Applied Physics, 46 , 7A (2007) pp. 4064-4069

Paper Title	Author Name	Journal, Vol., No. (Year) Page
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
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Paper Title	Author Name	Journal, Vol., No. (Year) Page
F56 Accuracy and Speed Performance of HiSIM Versions 231 and 240	H.J. Mattausch M. Miura-Mattausch N. Sadachika M. Miyake T. Iizuka T. Ohguro H. Koike S. Yamaguchi R. Inagaki Y. Furui	33rd European Solid-State Circuits Conference (ESSCIRC2007), MOS-AK Workshop on Compact Modeling for Nano CMOS/SOI Technologies, (2007)
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Registered Patents

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