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Published Papers

A. Mechanical System Engineering

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A1 Development of Laser Welding Technology for Vanadium and Its Alloys	HEO Nam-Jin Nagasaka Takuya Muroga Takeo Nishimura Arata Shinozaki Kenji Takeshita Noriyuki	Journal of Plasma Fusion and Research, accepted, (2002)
A2 Metallurgical and Mechanical Properties of Laser Weldment for Low Activation V-4CR-4TI Alloy	HEO Nam-Jin Nagasaka Takuya Muroga Takeo Nishimura Arata Shinozaki Kenji Takeshita Noriyuki	Fusion Engineering Design, 61-62 (2002) pp. 749-755
A3 Liquid Zinc Corrosion of Steel Welds	Suzuki. K Aihara. S Ichikawa. K Yajima. H Shinozaki. K Yamamoto. M	Science and Technology of Welding and Joining, 7 , 5 (2002) pp. 1-6
A4 Analysis of Degradation of Creep Strength in Heat-Affected Zone of Weldment of High Cr Heat-resisting Steel Based on Void Observation	Shinozaki. K De Jun Li Kuroki. H Harada. H Ohishi. K	ISI International, 42 , 12 (2002) pp. 1578-1584
A5 Prediction of Liquation Crack Initiation at HAZ of Laser Weldment Based on Three Dimensional Strain Analysis at Elevated Temperature	Yamamoto. M Shinozaki. K Kitamura. M Shirai. M	Proceedings of High-Power Laser Macroprocessing, 235 , 240 (2002)
A6 Effect of Intermetallic Compound on Mechanical Properties of Al-Cu Dissimilar Brazing Joint	Koyama. K Shinozaki. K Ikeda. K Kuroki. H	Proceedings of IWC-Korea 2002, (2002)
A7 Prediction of Liquation Crack Initiation at HZA of Laser Weldment Based on Strain Analysis at Elevated Temperature	Yamamoto. M Shinozaki. K Kitamura. M Shirai. M	Proceedings of IWC-Korea 2002, (2002)
A8 Consideration of the Adhesion Mechanism of Ti Alloys Using a Cemented Carbide Tool During the Cutting Process	Ikuta Akihiko Shinozaki Kenji Masuda Hideki Yamane Yasuo Kuroki Hidenori Fukaya Yasuhiro	Journal of Materials Processing Tech, 127 (2002) pp. 251-255
A9 Fabrication of Aluminum Borate Whisker Reinforced AZ91D Magnesium Alloy Composites by Semi-solid Process and their Mechanical Properties	Yoshida. M Takeuchi. S J. Pan Sasaki. G Fuyama. N Fugii. T Fukunaga. H	Adv.Composite Mater, 10 , 2-3 (2002) pp. 255-263
A10 Influence of Abnormal Structure on the Reliability of Squeeze Castings	Kimura. R Yoshida. M Sasaki. G J. Pan Fukunaga. H	Proc.JSME/ASME Int'1 Conf.On Materials and Processing 2002, 1 (2002) pp. 200-203
A11 Influence of Microstructure of Sintered SiC/SiO ₂ -mullite Oxide Matrix Composites on Mechanical Properties	Yoshida. M Nagahisa. K Sasaki. G Fukunaga. H	Proc.JSME/ASME Int'1 Conf.On Materials and Processing 2002, 2 (2002) pp. 276-281

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A12 Preparation and Mechanical Properties of Carbon Fiber Reinforced AZ91D Magnesium Alloy Composites Fabricated by Squeeze Casting Process	Matunaga. T Yoshida. M Sasaki. G J. Pan Fujii. T Fuyama. N Fukunaga. H	Proc.JSME/ASME Int'1 Conf.On Materials and Processing 2002, 2 (2002) pp. 347-351
A13 Characterization of Heat Insulating and Lubricating Ability of Powder Iubricants for Clean and High Quality Die Casting	Kimura. R Yoshida. M Sasaki. G Fukunaga. H	J.Materials Processing Technology, 130-131 (2002) pp. 289-293
A14 Influence of Abnormal Structure on the Reliability of Squeeze Castings	Kimura. R Yoshida. M Sasaki. G Fukunaga. H	J.Materials Processing Technology, 130-131 (2002) pp. 299-303
A15 Rapid consolidation by spark sintering of rapidly solidified 7075 aluminum alloy powder	K.Matsugi Y.Wang T.Hatayama O.Yanagisawa M.Kiritani	Radiation Effetcts and Defects in Solids, 157 , 1-2 (2002) pp. 233-244
A16 HREM and EDS Analysis of Sintered SiC Fiber Reinforced MAS Glass Composites	K. Nagahisa M. Yoshida E. Abe H. Fukunaga G. Sasaki	J. Electron Microscopy, 51 (2002) pp. S159-S164
A17 Effect of whisker surface treatment on the strength of Al18B4O33/Al alloy composites	J. Pan S.P. Lee M. Yoshida G. Sasaki N. Fuyama T. Fujii H. Fukunaga	Adv. Composite Mater., 10 , 4 (2002) pp. 299-307
A18 Interfacial microstructure of anodic-bonded Al/glass	Q. F. Xing G. Sasaki H. Fukunaga	J. Mat. Sci., Mat. in Electronics, 13 (2002) pp. 83-88
A19 TEM study on anodic bonded Al/glass and Si/glass	Q. F. Xing M. Yoshida G. Sasaki	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, 2 (2002) pp. 41-46
A20 Effect of fabrication condition on microstructure and mechanical properties of compo-casting Al18B4O33/ AZ91D magnesium alloy composites	G. Sasaki M. Yoshida N. Fuyama T. Fujii H. Fukunaga	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, 2 (2002) pp. 343-346
A21 Relationship between Aging Behaviors and Interfacial Reaction of casting Al18B4O33 Whisker Reinforced Magnesium Alloy Composites	W. G. Wang K. Matsugi O. Yanagisawa G. Sasaki	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, 2 (2002) pp. 352-356
A22 TEM study of the interface of anodic bonded Si/Glass	Q. F. Xing M. Yoshida G. Sasaki	Scripta Mat., 47 (2002) pp. 577-582
A23 Stirring Simulation of Compo-casting Process and Fabrication of the Metal Matrix Composites	G. Sasaki J. Adachi M. Yoshida K. Matsugi O. Yanagisawa N. Fuyama T. Fujii	CJUIJCC-5 Proceedings, (2002) pp. 258-262
A24 The Aging Behaviors of Al18B4O33 Whisker Reinforced Magnesium Alloy Composites	W.G. Wang K. Matsugi O. Yanagisawa G. Sasaki	CJUIJCC-5 Proceedings, (2002) pp. 208-213

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A25 Modeling of Compcasting Process and Fabrication of AZ91D Magnesium Alloy Matrix Composites	G. Sasaki M. Yoshida N. Fuyama T. Fujii	J. Materials Processing Technology, 130-131 (2002) pp. 151-155
A26 Structure Characterization of High Pressure Synthesized B-C-N Compounds	J.He Y.Tian D.Yu S.Liu L.Guo X.Jia G.Li O.Yanagisawa	J.of Chinese Ceramic Society, 30 , 1 (2002) pp. 51-56
A27 B-C-N Compound Synthesized under High Temperature and High Pressure	Y.J.Tian J.L.He D.L.Yu D.C.Li G.T.Zou X.P.Jia L.X.Chen O.Yanagisawa	J. of Radiation effects and defects in solid, 157 (2002) pp. 245-251
A28 Homogeneous Compaction of Fine Ceramic and Carbide Powders by High-Speed Centrifugal Compaction Process	Hiroyuki Y. Suzuki Shunzo Tashima Hidenori Kuroki	Proceedings of EURO PM 2002, European Powder Metallurgy Association, UK, (2002) pp. 46-51
A29 First results with the NSTX Fast Di-vertor Camera	Nobuhiro Nishino Lane Roquemore Robert Kaita Stewart Zweben David Johnson Henry Kugel Ricardo Maqueda Charles Bush Rajesh Maingi Vlad Soukhanovskii Franco Paoletti Steven Sabbagh NSTX team	J. Plasma Fusion Res. , 78 , 12 (2002) pp. 1278-1279
A30 Crystal structure of elongated thin foils of Fe and V	K. Sugio Y. Shimomura I. Mukouda M. Kiritani	Radiation Effects and Defects in Solids, 157 , 1-2 (2002) pp. 43-51
A31 Microstructure evolution in D-T neutron irradiated silver	K. Sugio H. Ohkubo I. Mukouda Y. Shimomura C. Kutsukake H. Takeuchi	J. Nucl. Mater., 307-311 (2002) pp. 450-454
A32 Microstructure in vanadium irradiated by simultaneous multi-ion beam of hydrogen, helium and nickel ions	I. Mukouda Y. Shimomura D. Yamaki T. Nakazawa T. Aruga S. Jitsukawa	J. Nucl. Mater., 307-311 (2002) pp. 412-415
A33 Positron Lifetime Studies of Defects in Low-Temperature Neutron-Irradiated Si	Hiroshi Fukushima	Proceedings of the 3rd International Workshop on Positron Studies of Semiconductor Defects, (2002) pp. O-14-1-O-14-8
A34 Evaluation of Supercritical Water Gasification and Biomethanation for Wet Biomass Utilization in Japan	Y. Matsumura	Energy Conversion and Management, 43 , 9-12 (2002) pp. 1301-1310
A35 Electrochemical oxidation of carbon monoxide on a Pt electrode at lower potential in hot aqueous solution at 423 K and 473 K	H. Nonaka Y. Matsumura	J. Chem. Eng. Jpn., 35 , 5 (2002) pp. 23-28

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A36 Carbon catalyzed supercritical water oxidation of phenol	Y. Matsumura K. Yamamoto T. Urase T. Nunoura	Int. J. Supercrit. Fluids, 22 (2002) pp. 149-156
A37 Electrochemical oxidation of carbon monoxide, methanol, formic acid, ethanol, and acetic acid on a platinum electrode under hot aqueous conditions	H. Nonaka Y. Matsumura	J. Electroanal. Chem., 520 (2002) pp. 101-110
A38 Modeling of supercritical water oxidation of phenol catalyzed by activated carbon	T. Nunoura G. H. Lee Y. Matsumura K. Yamamoto	Chem. Eng. Sci., 57 , 15 (2002) pp. 3061-3071
A39 Adsorption of carbon monoxide on platinum in hot aqueous acidic solution from 423 to 533 K	H. Nonaka Y. Matsumura	J. Chem. Eng. Jpn., 35 , 7 (2002) pp. 626-633
A40 Comparison of the effects of the addition of NaOH on the decomposition of 2-chlorophenol and phenol in supercritical water and under supercritical water oxidation conditions	G. Lee T. Nunoura Y. Matsumura K. Yamamoto	J. Supercrit. Fluids, 24 (2002) pp. 239-250
A41 Determination of ammonia oxidation rate in sub- and supercritical water	N. Segond Y. Matsumura K. Yamamoto	Ind. Eng. Chem. Res., 41 , 24 (2002) pp. 6020-6027
A42 Effects of a sodium hydroxide addition on the decomposition of 2-chlorophenol in supercritical water	G. Lee T. Nunoura Y. Matsumura K. Yamamoto	Ind. Eng. Chem. Res., 41 , 22 (2002) pp. 5427-5431
A43 Global kinetics of 2-chlorophenol disappearance with NaOH in supercritical water	G. H. Lee T. Nunoura Y. Matsumura K. Yamamoto	J. Chem. Eng. Jpn., 35 , 12 (2002) pp. 1252-1256
A44 Visualization of Burning Flow around a Ram Accelerator Projectile by Coaxial Simultaneous Shadow/Direct Photography	Tomoaki Yatsufusa Shiro Taki	Shock Waves, 12 (2002) pp. 235-240
A45 Flame Propagation along a Vortex Axis	Satoru Ishizuka	Progress in Energy and Combustion Science, 28 (2002) pp. 477-542
A46 An Analysis of Ambient Air Entrainment into Split Injection D.I. Gasoline Spray by LIF-PIV Technique	Jeekuen Lee Keiya Nishida Masahisa Yamakawa	SAE Technical Paper Series, (2002) pp. 1-18
A47 Quantitative Measurement of Liquid and Vapor Phase Concentration Distributions in a D.I. Gasoline Spray by the Laser Absorption Scattering (LAS) Technique	Masahisa Yamakawa Daisuke Takaki Tie Li Yuyin Zhang Keiya Nishida	SAE Technical Paper Series, (2002) pp. 1-13
A48 An Analysis of Droplets and Ambient Air Interaction in a D.I. Gasoline Spray Using LIF-PIV Technique	Jeekuen Lee Masahisa Yamakawa Seiji Isshiki Keiya Nishida	SAE Technical Paper Series, (2002) pp. 1-8
A49 Initial Spray Formation Process of Swirl-Type D.I. Gasoline Injector - Analyses by Laser Sheet Tomography and High Speed Video Imaging -	Jeekuen Lee Keiya Nishida	Proceedings of 7th Annual Conference on Liquid Atomization and Spray Systems - Asia, ILASS-Asia 2002, (2002) pp. 229-236
A50 Demonstration of a Transient High Gain Soft X-Ray Laser for Neon-like Argon	Peixiang Lu Tetsuya Kawachi Masayuki Suzuki Kouta Sukegawa Shinichi Namba	Jpn. J. Appl. Phys., 41 (2002) pp. L133-L135

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A51 Gain saturation of nickel-like silver and tin x-ray lasers by use of a table top pumping laser system	Tetsuya Kawachi Masataka Kado Momoko Tanaka Akira Sasaki Noboru Hasegawa Alexander Kilpio Shinichi Namba	Physical Review A, 66 (2002) pp. 33815-1-33815-7
A52 Ultraviolet Photoluminescence of ZnO Thin Film Prepared by Vapor Phase Growth Using a Metallic Zinc Source	J. Chen T. Fujita	Japanese Journal of Applied Physics, 41 , 2B (2002) pp. L203-L205
A53 Study of carrier dynamics in indirect transition-type (Al _{0.7} Ga _{0.3}) _{0.5} In _{0.5} P/Al _x In _{1-x} P superlattices by transient photoluminescence and photocurrent measurements	Y. Ishitani K. Matsuya T. Fujita K. Nakasa Y. Harima	Journal of Applied Physics, 92 , 4 (2002) pp. 2041-2046
A54 Luminescence due to STE in Thallous Bromide Doped with Iodine Ions	A. Fujii H. Haraguchi Y. Ichikawa K. Takiyama	Nonlinear Optics, 29 , 7-9 (2002) pp. 435-441
A55 Photo-Luminescence in TlBr Crystals Doped with a Trace Amount of I ⁻ Ions	A. Fujii H. Haraguchi Y. Ichikawa K. Okada K. Takiyama	Physics Reports of Kumamoto Univ., 11 , 2 (2002) pp. 245-250
A56 PIXE analysis of Co and Fe in the serum and bone marrow of mice having acquired radio-resistance after small-dose pre-irradiation: Preliminary experiment	Y. Matsuda M. Yonezawa F. Nishiyama	Nucl. Inst. and Meth. in Phys. Res., B189 (2002) pp. 464-469
A57 Activation and dopant sites of ultra-shallow implanted boron and arsenic in silicon	H. Kobayashi I. Nomachi K. Kusanagi F. Nishiyama	Nucl. Inst. and Meth. Phys. Res., B190 (2002) pp. 547-551
A58 A Monte Carlo track structure code for low energy protons	S. Endo E. Yoshida H. Nikjoo S. Uehara M. Hoshi M. Ishikawa K. Shizuma	Nuclear Instruments and Methods B, 194 (2002) pp. 123-131
A59 Characterization of a Ultra-Miniature Counter for microdosimetric measurements in a therapeutic 400MeV/A Carbon-beam	S. Endo M. Takada M. Ishikawa M. Hoshi S. Uehara H. Yamaguchi T. Kanai N. Matsufuji K. Shizuma Y. Onizuka	Radiation Protection Dosimetry, 99 , 1-4 (2002) pp. 421-424
A60 Neural networks for the neutron spectrum determination based on the foil activation	S. Endo E. Yoshida Y. Yoshitake W. Zhang K. Fujikawa T. Itoh M. Ishikawa M. Hoshi K. Shizuma	Japanese Journal of Applied Physics, 41 , 4 (2002) pp. 2191-2194
A61 New-in-vivo calibration phantoms and their performance	T. Ishikawa M. Uchiyama M. Hoshi J. Takada S. Endo N. Sugiura T. Kosako I. Shimizu	Health Physics, 82 , 3 (2002) pp. 348-357

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A62 Application of neural networks for the analysis of gamma-ray spectra measured with a Ge spectrometer	E. Yoshida K. Shizuma S. Endo T. Oka	Nuclear Instruments and Methods A, 484 , 1-3 (2002) pp. 575-581
A63 Benchmark for β -ray transport code using ion-implanted Si-detector	S. Endo K. Yoshimoto Y. Kojima M. Hoshi K. Shizuma	Japanese Journal of Medical Physics, 22 (2002) pp. 32-34
A64 Measuring the external exposure dose in the contaminated area near the Chernobyl nuclear power station using the thermoluminescence of quartz in bricks	H. Sato T. Takatsuji J. Takada S. Endo M. Hoshi V. F. Sharifov I. I. Veselkina I. V. Pienko W. A. F. Kalimullin V. B. Masyakin I. Yoshikawa T. Nagatomo S. Okajima	Health Physics, 83 (2002) pp. 227-236
A65 Decay scheme of ^{126}La isomers	Y. Kojima M. Asai M. Shibata K. Kawade A. Taniguchi A. Osa M. Koizumi T. Sekine	Applied Radiation and Isotopes, 56 (2002) pp. 543-556
A66 Performance of the multiple target He/PbI ₂ aerosol jet system for mass separation of neutron-deficient actinide isotopes	S. Ichikawa K. Tsukada M. Asai H. Haba M. Sakama Y. Kojima M. Shibata Y. Nagame Y. Oura K. Kawade	Nuclear Instruments and Methods B, 187 (2002) pp. 548-554
A67 Q_{β} determination of neutron-rich isotope ^{144}La with a total absorption detector	M. Shibata T. Shindou A. Taniguchi Y. Kojima K. Kawade S. Ichikawa Y. Kawase	Journal of Physical Society of Japan, 71 (2002) pp. 1401-1402
A68 Decay studies of neutron-deficient Am, Cm, and Bk nuclei using an on-line isotope separator	M. Asai M. Sakama K. Tsukada Ichikawa H. Haba I. Nishinaka Y. Nagame S. Goto K. Akiyama A. Toyoshima Y. Kojima Y. Oura H. Nakahara M. Shibata K. Kawade	Journal of Nuclear and Radiochemical Science, 3 (2002) pp. 187-190
A69 Decay studies on neutron-rich isotope ^{151}Ce	Y. Kojima M. Shibata A. Taniguchi Y. Kawase T. Hanafusa E. Yoshida K. Shizuma	Supplement of Journal of Nuclear Science and Technology, 2 (2002) pp. 489-492

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A70 Microdosimetry of epithermal neutron field at the Kyoto University Reactor	Y. Onizuka S. Endo M. Ishikawa M. Hoshi M. Takada T. Kobayashi Y. Sakurai H. Utsumi S. Uehara N. Hayabuchi N. Maeda T. Takatsuji K. Fujikawa	Radiation Protection Dosimetry, 99 , 1-4 (2002) pp. 383-385
A71 Dosimetry of fission neutrons in a 1-W reactor, UTR-KINKI	S. Endo E. Yoshida Y. Yoshitake T. Horiguchi W. Zhang K. Fujikawa M. Hoshi T. Itoh M. Ishikawa K. Shizuma	Journal of Radiation Research, 43 (2002) pp. 381-386
A72 Real time estimation of neutron flux during BNCT treatment using plastic scintillation detector with optical fiber	M. Ishikawa N. Unesaki T. Kobayashi Y. Sakurai K. Tanaka S. Endo M. Hoshi	Research and development in Neutron Capture therapy, Essen, (2002) pp. 8-13
A73 Relative biological effectiveness of fission neutrons for producing micronuclei in the root-tip cells of onion seedlings after irradiation as dry seeds	W. Zhang S. Endo M. Ishikawa H. Ikeda M. Hishi	Journal of Radiation Research, 43 (2002) pp. 397-403
A74 Measurement of residual ^{60}Co activity induced by atomic-bomb neutrons in Nagasaki and background contribution by environmental neutrons	K. Shizuma S. Endo M. Hoshi J. Takada K. Iwatani H. Hasai T. Oka T. Shimazaki Y. Okumura S. Fujita T. Watanabe T. Imanaka	Journal of Radiation Research, 43 (2002) pp. 387-396
A75 Reassessment of the cancer mortality risk among Hiroshima atomic-bomb survivors using a new dosimetry system, ABS2000D, compared with ABS93D	H. Katayama M. Matsuura S. Endo M. Hoshi M. Ohtaki N. Hayakawa	Journal of Radiation Research, 43 (2002) pp. 53-64
A76 Anomalous $^{235}\text{U}/^{238}\text{U}$ ratio and metal elements detected in the black rain from the Hiroshima a-bomb	Y. Fujikawa K. Shizuma S. Endo M. Fukui	Health Physics, 84 (2002) pp. 155-162
A77 Large-Deformation Dynamics of Flexible Link Systems Moving along Nonlinear Trajectories	Shingo OKAMOTO Yuuki OMURA	First Asian Conference on Multi-body Dynamics'2002, Iwaki, Fukushima, Japan, June 31 - August 2, (2002) pp. 193-200
A78 Computational simulation on deformation behavior of CT specimens of TRIP steel under mode I loading for evaluation of fracture toughness	Takeshi IWAMOTO Toshio TSUTA	International Journal of Plasticity, 18 (2002) pp. 1583-1606

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A79 Assessment of geometrical orientation of martensitic particles in TRIP steel by Fourier and wavelet transformation image analyses	Takeshi IWAMOTO Toshio TSUTA	Key Engineering Materials, Proc. AEP2002, 233 - 236 (2002) pp. 627-636
A80 Computational simulation of deformation behavior of TRIP steel by homogenization	Takeshi IWAMOTO Toshio TSUTA Takeshi KAWAMOTO	Plasticity, Damage and Fracture at Macro, Micro and Nano Scales, Proc. Plasticity 2002, (2002) pp. 189-191
A81 Identification of Sound Sources based on Sound Pressure Measurement considering Observation Point Importance	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. International Symposium on Machine Condition Monitoring and Diagnosis, (2002) pp. 110-116
A82 Pattern Recognition Analysis for Ball Bearing Diagnosis	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. International Symposium on Machine Condition Monitoring and Diagnosis, (2002) pp. 59-64
A83 Numerical Analysis of the Hybrid Transducer Ultrasonic Motor: Comparison of Characteristics Calculated by Transmission-Line and Lumped-Element Models	Jun Satonobu James R. Friend Kentaro Nakamura Sadayuki Ueha	Ultrasonics, 39 , 8 (2002) pp. 559-565
A84 Design of Piezoelectric Tuning-Fork Linear Actuator	James Friend Jun Satonobu Kentaro Nakamura Sadayuki Ueha Daniel Stutts	Proc. International Conference on New Piezoelectric Materials and High Performance Acoustic Wave Devices, (2002) pp. 211-214
A85 Chaos Analysis and Diagnosis of Ball Bearing Vibration	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. 15th International Congress on Condition Monitoring and Diagnostic Engineering Management, (2002) pp. 278-287
A86 Influence of Tennis-Ball Slide on Ball-Spin during Impact	Noritoshi Nakagawa Yasuhisa Sekiguchi Naoya Okada Hironobu Monden	The Book of the 4th International Conference on the Engineering of Sport, (2002) pp. 46-51
A87 Flow Analysis of Self-Induced Vibration of Plane Submerged Water Jets	Nobukazu Shimada Hideki Hibara Masaru Sumida Kozo Sudo	CD-ROM Proceedings of 10th International Symposium on Flow Visualization, F0047 (2002)
A88 High-Level Noise Induced Bypass Transition in Compressible Plane Poiseuille Flow	Moez Yahyaoui Hiroshi Maekawa	JSME International Journal, 45 , 2 (2002) pp. 408-418
A89 Simulations of Bypass Transition for Spatially Evolving Disturbances in Compressible Wall-Bounded Flows	Moez Yahyaoui Hiroshi Maekawa	Computational Fluid Dynamics Journal(invited), 11 , 2 (2002) pp. 195-207
A90 Study of Vortex Dislocations in the Wake of a Flat Plate with Finite Thickness	Hiroshi Maekawa So Abe	JSME International Journal, 45 , 4 (2002) pp. 843-849
A91 Transition of Supersonic Plane Jet due to Symmetric/Anti-Symmetric Unstable Modes	Daisuke Watanabe Hiroshi Maekawa	Journal of Turbulence(Institute of Physics), 3 , 47 (2002) pp. 1-17
A92 Study of Mach Wave Emission Mechanism in a Turbulent Jet at High Convective Mach Numbers using DNS	Hiroshi Maekawa (Invited)	Proc. of Russia-Japan International Workshop on Actual Problems of Computational Mechanics , 1 (2002) pp. 20-23
A93 Actuator with a Pair of Wings for Manipulation of Hairpin Vortices	Youichi Kamikuchi Hiroshi Maekawa	Fifth JSME-KSME Fluids Engineering Conference, 2 (2002) pp. 321-325
A94 High speed and high-accuracy plunge cutting for vertical walls	Shunsuke Wakaoka Yasuo Yamane Katsuhiko Sekiya Norihiro Narutaki	Journal of Materials Processing Technology, 127 (2002) pp. 246-250

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A95 Ray tracing simulator for evaluation of surface irregularity using image processing	Tadanori Sugino Yasuo Yasuo Shunsuke Wakaoka Norihiro Narutaki	Proceedings of the 6th International Conference on Progress of Machining Technology, (2002) pp. 689-694
A96 Face milling of BN added steels	Ryutaro Tanaka Yasuo Yamane Katsuhiko Sekiya Norihiro Narutaki Tetsuo Shiraga	Proceedings of the 6th International Conference on Progress of Machining Technology, (2002) pp. 105-110
A97 Gap sensing for air bearing	Masahiko Fukuta Yasuo Yamane Norihiro Narutaki	Proceedings of the 6th International Conference on Progress of Machining Technology, (2002) pp. 581-585
A98 Sensor Fault Detection and Diagnosis in Dead Reckoning System of Mobile Robot: Interacting Multiple-Model Approach	Masafumi Hashimoto Hiroyuki Kawashima Fuminori Oba	Journal of Robotics and Mechatronics, 14 , 4 (2002) pp. 342-348
A99 Path-Tracking and Chassis-Leveling Control Method for an Omnidirectional Vehicle on Slope	Masafumi Hashimoto Hiroyuki Hata Fuminori Oba	Proceeding of 2002 Japan-USA Symposium on Flexible Automation, (2002) pp. CD-ROM
A100 An Effective Heuristic Rule for Dynamic Job Shop Scheduling with Alternative Machines	Toru Eguchi Fuminori Oba Satoru Toyooka Yasuhiro Sato	Proceedings of The 35th CIRP International Seminar on Manufacturing Systems, (2002) pp. 225-231
A101 Dynamic Job Shop Scheduling Using a Neural Network: Two-stage Training and Information Theoretic Analysis	Toru Eguchi Fuminori Oba Satoru Toyooka	Proceedings of the 2002 Japan-USA Symposium on Flexible Automation, 2 (2002) pp. 959-966
A102 Synthesis of a static anti-windup compensator via linear matrix inequalities	Masami Saeki Nobutaka Wada	International Journal of Robust and Nonlinear Control, 12 (2002) pp. 927-953
A103 Path following control of articulated vehicle by backward driving	Masami Saeki	Proceedings of the 2002 IEEE International Conference on Control Applications, CD-ROM (2002) pp. 421-426
A104 A new adaptive method for identification of critical gain using saturation function	Masami Saeki	Asian Journal of Control, 4 , 4 (2002) pp. 464-471
A105 Anti-windup Design Based on L2 Performance Criterion	Nobutaka Wada Masami Saeki	Proc. of ICASE/SICE Joint Workshop, (2002) pp. 199-203
A106 Optimal selection of the used products to be disassembled for remanufacturing	Takeshi Murayama Hidekazu Tanaka Norihiro Narutaki Fuminori Oba	Proceedings of 2002 Japan-U.S.A. Symposium on Flexible Automation, III (2002) pp. 1347-1350
A107 Decentralized LCA using Distributed Object Technology	Takeshi Murayama Shintaro Tadokoro Shinichi Tainaka Norihiro Narutaki Fuminori Oba	Proceedings of The 5th International Conference on EcoBalance, (2002) pp. 107-110
A108 Sharing and Adjustment of Design Targets in a Distributed CAD System	Takeshi Murayama Hirofumi Fukumaru Hiromichi Matsuoka Fuminori Oba	Proceedings of 2002 IEEE International Conference on Industrial Technology, 1 (2002) pp. 138-142
A109 Machinability of Pearlitic Cast Iron With Cubic Boron Nitride (CBN) Cutting Tools	Jiancheng Liu Kazuo Yamazaki Hiroyuki Ueda Norihiro Narutaki Yasuo Yamane	Transactions of the ASME, 124 (2002) pp. 820-832
A110 Round Insert Improves the Grooving Ability of Difficult-to-cut Materials	Norihiro Nautaki Akio Ochi	Proc. the 6th Int. Conf. on Progress of Machining Technology, (2002) pp. 503-508

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A111 High Speed Milling of Inconel 718	Katsuhiko SEKIYA Yasuo Yamane Norihiko Narutaki	Proc. the 6th Int. Conf. on Progress of Machining Technology, (2002) pp. 280-285
A112 Strengthening Sn60-Pb40 solder alloy by adding trace amount of La	Xin Ma Yiyu Qian Fusahito Yoshida	Materials Letters, 52 (2002) pp. 319-322
A113 Effect of La on the Cu-Sn intermetallic compound (IMC) growth and solder joint reliability	Xin Ma Yiyu Qian Fusahito Yoshida	Journal of Alloys and Compounds, 334 (2002) pp. 224-227
A114 Deformation behaviour of chromium sheets in mechanical and laser bending	K. C. Chan Y. Harada J. Liang F. Yoshida	Journal of Materials Processing Technology, 122 (2002) pp. 272-277
A115 Interaction relation in 60Sn-Pb-0.05La ternary solder alloy	Xin Ma Fusahito Yoshida	Materials Letters, 56 (2002) pp. 441-445
A116 Elastic-plastic behavior of steel sheets under in-plane cyclic tension-compression at large strain	Fusahito Yoshida Takeshi Uemori Kenji Fujiwara	International Journal of Plasticity, 18 (2002) pp. 633-659
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D50 Gas permeation properties of MFI zeolite membranes prepared by the secondary growth of colloidal silicalite and application to the methylation of toluene	Yuko Takata Toshinori Tsuru Tomohisa Yoshioka Masashi Asaeda	Microporous and Mesoporous Materials, 54 (2002) pp. 257-268
D51 Effect of Rotor Blades on Pulverizing Performance by Mechanical Impact	S. Akiyama K. Kozawa H. Yoshida	World Congress of Powder Technology, (2002) pp. 11-18
D52 Contact Forces and Mechanisms in a Vibratory Finisher	A. Yabuki M.R. Baghbanan J.K. Spelt	Wear, 252 (2002) pp. 635-643
D53 Large Photocurrent Generation of Gold Electrodes Modified with [60]Fullerene-Linked Oligothiophenes Bearing a Tripodal Rigid Anchor	D. Hirayama K. Takimiya Y. Aso T. Otsubo T. Hasobe H. Yamada H. Imahori S. Fukuzumi Y. Sakata	J. Am. Chem. Soc., 124 , 4 (2002) pp. 532-533
D54 Porphyrin-Oligothiophene-Fullerene Triads as an Efficient Intramolecular Electron-Transfer System	J. Ikemoto K. Takimiya Y. Aso T. Otsubo M. Fujitsuka O. Ito	Org. Letters, 4 , 3 (2002) pp. 309-311
D55 Synthesis and Properties of Coil-Shaped 2,3-Thienylene-Ethynylene Oligomers	Y. Aso Y. Obara T. Okai S. Nishiguchi T. Otsubo	Mol. Cryst. Liq. Cryst., 376 (2002) pp. 153-158
D56 Structures and Properties of Radical Cation Salts of Novel Tetraselenafulvalene derivatives (BPT-TSF, EDT-PT-TSF, and BEST-TSF) with MX ₄ (M = Fe, Ga, X = Cl, Br)-Type Anions	M. Kodani S. Murakami T. Jigami K. Takimiya Y. Aso T. Otsubo	Mol. Cryst. Liq. Cryst., 376 (2002) pp. 47-52
D57 Organic Superconductor with an Incommensurate Anion Structure: (MDT-TSF)(AuI ₂) _{0.44}	T. Kawamoto T. Mori K. Takimiya Y. Kataoka Y. Aso T. Otsubo	Phys. Rev. B, 65 , 14 (2002) pp. 140508(R)1-4
D58 Photoinduced Electron Transfer from Bis[4-N,N-di-p-tolylamino)phenyl] Chalcogenides to Fullerenes (C ₆₀ /C ₇₀) by Laser Flash Photolysis	H.-P. Zeng M. Fujitsuka H. Luo O. Ito T. Okai Y. Aso T. Otsubo	ITE Letters on Batteries, New Technologies & Medicine, 3 , 2 (2002) pp. C22-28
D59 Synthetic Procedure for Various Selenium-Containing Electron Donors of the Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) Type	K. Takimiya T. Jigami M. Kawashima M. Kodani Y. Aso T. Otsubo	J. Org. Chem., 67 , 12 (2002) pp. 4218-4227
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D62 Synthesis, Structures, and Properties of Two Isomeric Naphthodithiophenes and Their Methyl, Methylthio, 2-Thienyl Derivatives; Application to Conductive Charge-Transfer Complexes and Low-Bandgap Polymers	K. Takimiya K. Kato Y. Aso F. Ogura T. Otsubo	Bull. Chem. Soc. Jpn., 75 , 8 (2002) pp. 1795-1805
D63 Organic Field-Effect Transistors Using Di(2-thienyl)naphthodithiophenes as Active Layers	Y. Kunugi K. Takimiya K. Yamashita Y. Aso T. Otsubo	Chem. Letters, 2002 , 10 (2002) pp. 958-959
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D99 Static and Dynamic Structures of Halogenated Dimethyl Ether Radical Cations: An ESR and MO study	Y. Itagaki P. Wang N. Isamoto M. Shiotani A. Hasegawa M. Jansson S. Lunell	Phys. Chem. Chem. Phys. , 4 (2002) pp. 2524-2529
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D118 Pulsed laser deposition of novel nitride solid solution films Ni _x Ti _{1-x} N _y on MgO(001)	K. Sakamoto K. Inumaru S. Yamanaka	Appl. Surface Sci., 199 , 1-4 (2002) pp. 303-306
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D121 Synthesis and Properties of New Superconductors with Cage and Layered Structures	S. Yamanaka	Jpn. J. Appl. Phys., 41 , 7B (2002) pp. 5008-5012
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D129 Characterizations of Iron-Containing MCM-41 and Its Catalytic Properties in Epoxidation of Styrene with Hydrogen Peroxide	Y. Wang Q. Zhang T. Shishido K. Takehira	J. Catal., 209 (2002) pp. 186-196
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D132 Manganese-containing MCM-41 for epoxidation of styrene and stilbene	Q. Zhang Y. Wang S. Itsuki T. Shishido K. Takehira	J. Mol. Catal., A, 188 (2002) pp. 189-200
D133 Steam reforming of CH ₄ over Ni/Mg-Al catalysts prepared by spc-method from hydrotalcite precursors	T. Shishido K. Takehira	Stud. Surf. Sci. Catal., 143 (2002) pp. 189-200
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D144 Effects of spilled oil on microbial communities in a tidal flat Marine Poll	Yoko Katayama Tetsu Oura Mihoko Iizuka Izumi Orita Kyung-Jin Cho In Young Chung Mitsumasa Okada	Bulliten, (2002)
D145 Improvement of DOC removal by multi-stage AOP-biological treatment	Fahmi Wataru Nishijima Mitsumasa Okada	Chemosphere, 50 (2002) pp. 1043-1048

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E2 Long-Term Behavior of Bond in Concrete Members Made of High, Middle and Low Strength Concrete	Ryoichi Sato Nour-Allah H. Mo- hamed Yang Yang Kenji Kawai	Proceedings of International Symposium on Bond in Concrete-from research to standards, (2002)

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