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Published Papers

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A1 Hot electron spectra in hole-cone shell targets and a new proposal of the target for fast ignition in laser fusion	T. Ozaki A. Sunahara H. Shiraga Y. Arikawa S. Fujioka H. Sakagami Z. Zhang H. Nagatomo T. Johzaki T. Namimoto M. Taga S. Kojima Y. Abe K. Ishihara T. Nagai S. Sakata S. Hattori Y. Sakawa H. Nishimura H. Azechi FIREX Group	Physica Scripta, 2014 (2014) pp. 014025
A2 Impact ignition as a track to laser fusion	M. Muarakami H. Nagatomo T. Johzaki T. Sakaiya A. Velikovich M. Karasik S. Gus'kov N. Zmitrenkov	Nucl. Fusion, 54 , 5 (2014) pp. 054007
A3 Theory of fast electron transport for fast ignition	A.R. Robinson D.J. Strozzi J.R. Davies L. Gremilet J.J. Honrubia T. Johzaki R.J. Kingham M. Sherlock A.A. Solodov	Nucl. Fusion, 54 , 5 (2014) pp. 054003
A4 Advanced Simulation Techniques of Particle-in-Cell Code for High Density Relativistic Plasma	Hitoshi Sakagami Tomoyuki Johzaki	J. Plasma Fusion Res., 90 , 5 (2014) pp. 296-298
A5 Radiation Transport and Nuclear Reaction Models for Particle Simulations	Tomoyuki Johzaki Yasuhiko Sentoku	J. Plasma Fusion Res., 90 , 8 (2014) pp. 500-504
A6 Kinetic effects and nonlinear heating in intense x-ray-laser-produced carbon plasmas	Y. Sentoku I. Paraschiv R. Royle R.C. Mancini T. Johzaki	Phys. Rev. E, 90 (2014) pp. 051102
A7 Laser-plasma interactions for fast ignition	A.J. Kemp F. Fiuza A. Debayle T. Johzaki W.B. Mori P.K. Patel Y. Sentoku L.O. Silva	Nucl. Fusion, 54 , 5 (2014) pp. 054002
A8 A study on rate sensitivity of impedance in TRIP steel during deformation at various strain rate under two kinds of deformation mode	Daiki Inoshita Takeshi IWAMOTO	Applied Mechanics and Materials, 566 (2014) pp. 140-145

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A9 Effect of deformation rate on bending deformation behavior of Fe-based shape memory alloy	Keizo Nishikori Takeshi IWAMOTO	Applied Mechanics and Materials, 566 (2014) pp. 116-121
A10 A study on reduction of friction in impact compressive test based on the split Hopkinson pressure bar method by using a hollow specimen	Nobuhiko Kii Takeshi IWAMOTO Alexis Rusinek Tomasz Jankowiak	Applied Mechanics and Materials, 566 (2014) pp. 548-533
A11 Passive vibration control of structures subjected to random ground excitation utilizing sloshing in rectangular tanks	Takashi Ikeda Raouf A. Ibrahim	Trans. ASME, J. Pressure Vessel Technology, 136 , 1 (2014) pp. 011801-1-011801-11
A12 Internal resonances of nonlinear sloshing in rectangular liquid tanks	Takashi Ikeda Yuji Harata Takefumi Osasa	Proceedings of the 8th European Nonlinear Dynamics Conference (ENOC2014), (2014)
A13 Vibration suppression of wind turbine blades using pendulum-type dynamic absorbers	Takashi Ikeda Yuji Harata Yukio Ishida	Proceedings of the Grand Renewable Energy 2014 Internal Conference and Exhibition, (2014)
A14 Localization phenomena in pendulum arrays subjected to vertical excitation	Takashi Ikeda Yuji Harata Chongyue Shi Keisuke Nishimura	Proceedings of the ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2014), (2014)
A15 Vibration suppression of wind turbine blades using tuned mass dampers	Takashi Ikeda Yuji Harata Yusuke Sasagawa Yukio Ishida	Proceedings of the ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2014), (2014)
A16 Efficiency analysis of two-periodic asymmetric gaits	Yuji Harata Koji Iwano Fumihiko Asano Takashi Ikeda	Int. J. Dynamics and Control, 3 (2014) pp. 304-313
A17 On an application of delayed feedback control to parametric excitation walking	Hajime Asaka Yuji Harata Kouichi Taji	Journal of Control and systems Engineering, 2 , 1 (2014) pp. 1-9
A18 A modified kneed biped real robot based on parametric excitation principle	Yoshihisa Banno Kouichi Taji Yuji Harata Kyohei Seta	Automation, Control and Intelligent Systems, 2 , 5 (2014) pp. 84-90
A19 Three-dimensional FEM stress analysis and strength prediction of scarf adhesive joints with similar adherends subjected to static tensile loadings	Hiroko Nakano Yuya Omiya Yasuhisa Sekiguchi Toshiyuki Sawa	International Journal of Adhesion and Adhesives, 54 (2014) pp. 40-50
A20 FEM Stress Analyses and Strength Prediction of Scarf Adhesive Joints under Static Bending Moments	Hiroko Nakano Yuya Omiya Yasuhisa Sekiguchi Toshiyuki Sawa	Proceedings of 5th World Congress on Adhesion and Related Phenomena, (2014) pp. 34
A21 FEM Stress Analyses and Strength Prediction of Band Bonded Scarf Adhesive Joints under Impact Tensile Loadings	Hiroko Nakano Yuya Omiya Yasuhisa Sekiguchi Toshiyuki Sawa	Proceedings of 5th World Congress on Adhesion and Related Phenomena, (2014) pp. 35
A22 Application of Statistical Parameters and Discrete Wavelet Transform to Gear Damage Diagnosis	Qingrong Fan Kiyotaka Ikejo Kazuteru Nagamura Masato Kawada Mitsuo Hashimoto	Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME), 8 , 2 (2014)
A23 Gear Damage Diagnosis and Classification Based on Support Vector Machines	Qingrong Fan Kiyotaka Ikejo Kazuteru Nagamura Masato Kawada Mitsuo Hashimoto	Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME), 8 , 3 (2014)

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A25 Easy Set-up and In Situ Automatic Gear Diagnostic System Using Laser Beam Reflection without a Rotary Encoder	Eiichirou Tanaka Keyaki Nakajima Yuta Kojima Kazunari Okabe Hitoshi Takebe Kazuteru Nagamura Kiyotaka Ikejo Ryozo Nemoto	Proceedings of International Gear Conference, August 26-28, 2014, Lyon, France, (2014) pp. 1110-1119
A26 Analysis of Torsional Vibration in Elliptical Gears	Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of The 3rd International Conference on Design Engineering and Science, ICDES 2014, Pilsen, Czech Republic, August 31-September 3, 3 (2014) pp. 38-43
A27 Diagnosis for Gear Tooth Surface Damage by Empirical Mode Decomposition in Cyclic Fatigue Test	Qingrong Fan Kiyotaka Ikejo Kazuteru Nagamura Masato Kawada Mitsuo Hashimoto	Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME), 8 , 3 (2014)
A28 Comparison of Spray and Internal Flow Characteristics between Single and Multi-Hole Nozzles for Diesel Engine	Takuya Inaba Pengbo Dong Keiya Nishida Youichi Ogata Baolu Shi Daisuke Shimo Sang-Kyu Kim Makoto Namba	USB Proceedings of 17th Annual Conference of Liquid Atomization and Spray Systems-Asia (ILASS-Asia 2014), (2014) pp. 1-12
A29 Effect of Air Flow on Cross Sectional Pattern and Droplets Size/Velocity Distributions of Spray Injected by Hole-Type Nozzle for DISI Engine	Min Guo Ryousuke Kishi Baolu Shi Youichi Ogata Keiya Nishida	USB Proceedings of 17th Annual Conference of Liquid Atomization and Spray Systems-Asia (ILASS-Asia 2014), 2014-072 (2014) pp. 1-11
A30 Experimental Study on In-Cross Flow Spray Injected by Hole-Type Nozzle for DISI Engine	Ryousuke Kishi Min Guo Baolu Shi Youichi Ogata Keiya Nishida Yoshitaka Wada	USB Proceedings of 26th Annual Conference of Liquid Atomization and Spray Systems-Europe (ILASS-2014), ABS-185 (2014) pp. 1-11
A31 Self-Propulsion of a Killifish from Impulsive Starts	Youichi Ogata Yuji Moriyama Takayuki Azama Chisato Tanaka Keiya Nishida	Proc. of Advances in Computational Fluid-Structure Interaction and Flow Simulation, (2014)
A32 Tracer LAS Technique for Quantitative Mixture Concentration Measurement of Evaporating Diesel Spray	Takeru Matsuo Kuichun Li Masayuki Itamochi Keiya Nishida Youichi Ogata Baolu Shi Daisuke Shimo Makoto Namba Sang-Kyu Kim Jun Kanzaki	USB Proceedings of 17th Annual Conference of Liquid Atomization and Spray Systems-Asia (ILASS-Asia 2014), (2014) pp. 1-11
A33 Characterization of the Ignition and Combustion Processes of Spray Injected by a Hole-Type Nozzle for a Direct-Injection Spark Ignition Engine	Run Chen Keiya Nishida Hajime Kataoka	Proceedings of Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 228 , 6 (2014) pp. 617-630
A34 Spray Evaporation of Ethanol-Gasoline-Like Blend and Combustion of Ethanol-Gasoline Blend Injected by Hole-Type Nozzle for Direct-Injection Spark Ignition Engine	Run Chen Keiya Nishida	Fuel, 134 (2014) pp. 263-273

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A35 Characteristics of Diesel Spray Flame under Flat Wall Impinging Condition - LAS, OH* Chemiluminescence and Two Color Pyrometry Results -	Kuichun Li Pengbo Dong Takeru Matsuo Baolu Shi Youichi Ogata Keiya Nishida	Proceedings of SAE 2014 International Powertrains, Fuels and Lubricants Meeting, 2014-01-2636 (2014) pp. 1-14
A36 Small Injection Amount Fuel Spray Characteristics Injected by Hole-Type Nozzle for D.I. Diesel Engine	Keiya Nishida Kuichun Li Takeru Matsuo Daisuke Shimo Wu Zhang	Proceedings of SAE/JSAE 2014 Small Engine Technology Conference, 2014-32-0124/20149124 (2014) pp. 1-11
A37 Small Injection Amount Fuel Spray Characteristics Injected by Hole-Type Nozzle for D.I. Diesel Engine	Keiya Nishida Kuichun Li Takeru Matsuo Daisuke Shimo Wu Zhang	SAE International Journal of Engines, 8 , 1 (2014) pp. 277-287
A38 Numerical Studies of Spray Combustion Processes of Palm Oil Biodiesel and Diesel Fuels Using Reduced Chemical Kinetic Mechanisms	Olawole Abiola Kuti Sarathy Subram Maniam Keiya Nishida William L. Roberts	Proceedings of SAE 2014 World Congress, SAE 2014-01-1143 (2014) pp. 1-12
A39 A Levy Flight-Based Hybrid Artificial Bee Colony Algorithm for Solving Numerical Optimization Problems	Hai Shan Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of 2014 IEEE Congress on Evolutionary Computation, (2014) pp. 2656-2663
A40 Apply Incremental Evolution with CMA-NeuroES Controller for a Robust Swarm Robotics System	Yu Tian Toshiyuki Yasuda Kazuhiro Ohkura Yoshiyuki Matsumura Masanori Goka	Proceedings of Proceedings of the SICE Annual Conference 2014, (2014) pp. 295-300
A41 GPU Implementation of Food-Foraging Problem for Evolutionary Swarm Robotics Systems	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura Masaki Kadota	Proceedings of 9th International Conference on Swarm Intelligence, (2014) pp. 238-245
A42 Response Threshold-Based Task Allocation in a Reinforcement Learning Robotic Swarm	Toshiyuki Yasuda Koki Kage Kazuhiro Ohkura	Proceedings of IEEE 7th International Workshop on Computational Intelligence and Applications, (2014) pp. 189-194
A43 An Extended SHADE and its Evaluations	Kazuhiro Ohkura Toshiyuki Yasuda Masaki Kadota Yoshiyuki Matsumura	Proceedings of 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2014) pp. 493-504
A44 Self-organized Flocking in Mobile Robots Based on Frontal Interaction and a Leadership Rules	Toshiyuki Yasuda Akitoshi Adachi Kazuhiro Ohkura	Proceedings of Joint 7th International Conference on Soft Computing and Intelligent Systems and 15th International Symposium on Advanced Intelligent Systems, (2014) pp. 594-599
A45 Evolutionary Swarm Robotics Approach to a Pursuit Problem	Toshiyuki Yasuda Kazuhiro Ohkura Tosei Nomura	2014 IEEE Symposium on Robotic Intelligence in Informationally Structured Space Proceedings, (2014) pp. 129-134
A46 Self-Organized Flocking of a Mobile Robot Swarm by Topological Distance-Based Interactions	Toshiyuki Yasuda Akitoshi Adachi Kazuhiro Ohkura	Proceedings of 2014 IEEE/SICE International Symposium on System Integration, (2014) pp. 106-111
A47 Robust performance design of a state predictive controller on parameter space	Masami Saeki Mouhammad Assi Nobutaka Wada	IEEJ Transactions on Electrical and Electronic Engineers, 9 (2014) pp. 24-30

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A49 Bounded stabilization of stochastic port-Hamiltonian systems	Satoshi Satoh Masami Saeki	International Journal of Control, 87 , 8 (2014) pp. 1573-1582
A50 A study of stochastic input-to-state stability of a class of stochastic port-Hamiltonian systems	Satoshi Satoh Masami Saeki	Proceedings of Mathematical Theory of Networks and Systems, (2014) pp. 1356-1359
A51 A Constrained Tracking Control Algorithm for Linear Systems Based on a Spline-type Parameter-dependent Lyapunov Function	Nobutaka Wada Masami Saeki Izumi Masubuchi	International Journal of Robust and Nonlinear Control, (2014)
A52 Constrained tracking control by continuous resets of the state of a gain-scheduled controller	Nobutaka Wada	Mechanical Engineering Journal, 1 , 3 (2014)
A53 Effect of Different Features to Drill-Wear Prediction with Back Propagation Neural Network	Xu Jie Yamada Keiji Sekiya Katsuhiko Tanaka Ryutaro Yamane Yasuo	Precision Engineering, 38 , 4 (2014) pp. 791-798
A54 Comparison of applying static and dynamic features for drill wear prediction	Xu Jie Yamada Keiji Sekiya Katsuhiko Tanaka Ryutaro Yamane Yasuo	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 8 , 4 (2014)
A55 Job shop scheduling for meeting due dates and minimizing overtime using genetic algorithm incorporating new priority rules	Mitsunobu Yoda Toru Eguchi Takeshi Murayama	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 8 , 5 (2014)
A56 Proceedings of the ISFA 2012 International Symposium on Flexible Automation	Mitsunobu Yoda Toru Eguchi Takeshi Murayama	Efficient Job Shop Scheduling by Sequentially Fixing Partial Schedules, (2014)

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B1 Solidification cracking susceptibility of modified 9Cr1Mo steel weld metal during hot-wire laser welding with a narrow gap groove	Rttichai Phaoniam Kenji Shinozaki Motomichi Yamamoto Kota Kadoi Akito Nishijima Masayuki Yamamoto	Welding in the World, 58 , 4 (2014) pp. 469-476
B2 Investigation of Evaluation Method for Hot Cracking Susceptibility of 310S Stainless Steel during Laser Welding Using Trans-Varestraint Test	Dan Wang Shuntaro Sakoda Kota Kadoi Kenji Shinozaki Motomichi Yamamoto	Proceeding of Visual-JW 2014, (2014) pp. 163-164
B3 In-situ Temperature Measurement Using Multi-Sensor Camera during Laser Welding	Shotaro Yamashita Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Kenji Mitsui Hiroyuki Usui	Proceeding of Visual-JW 2014, (2014) pp. 91-92
B4 Welding Phenomena during Vertical Welding Process on Thick Steel Plate Using Hot-Wire Laser Welding Method	Eakkachai Warinsiriruk Koei Hashida Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Tadakazu Tanino Hiroschi Yajima	Proceeding of Visual-JW 2014, (2014) pp. 99-100
B5 Hot-Wire Laser Welding Process Using Laser Diode for Large Diameter Pipe with Narrow Gap Joint	Masatomo Todo Kenji Shinozaki Motomichi Yamamoto Kota Kadoi Masayuki Yamamoto Rittichai Phaoniam Toshinori Okagaito	Proceeding of Visual-JW 2014, (2014) pp. 101-102
B6 Weld Defect Prevention for Fillet Welded Joint on Steel Plate Coated with Shop Primer Using Hot-Wire Laser Welding	Daiki Okita Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Tadashi Kado	Proceeding of Visual-JW 2014, (2014) pp. 103-104
B7 In Situ Observation Method for Quantitative Evaluation of Solidification Phenomena and Solidification Cracks during Welding	Kenji Shinozaki Motomichi Yamamoto Kota Kadoi Pen Wen	Materials Science Forum, 782 (2014) pp. 3-7
B8 Optimal production process of particulate intermetallic compound reinforced aluminum metal matrix composites	Yongbum Choi Junichi Murakami Takahiro Motoyama Kazuhiro Matsugi Kenjiro Sugio Gen Sasaki	International Journal of Aerospace and Lightweight Structures, 3 , 4 (2014) pp. 503-512
B9 Effect of aluminum carbide on thermal conductivity of the unidirectional CF/Al composites fabricated by low pressure infiltration process	Moonhee Lee Yonbum Choi Kenjiro Sugio Kazuhiro Matsugi Gen Sasaki	Composites Science and Technology, 97 , 16 (2014) pp. 1-5
B10 Influence of the specific surface area of porous nickel to the intermetallic compound generated by reaction of porous nickel and aluminum	Yongbum Choi Takahiro Motoyama Kazuhiro Matsugi Gen Sasaki	Metals and Materials International, 20 , 4 (2014) pp. 741-745
B11 Manufacturing process of dispersed intermetallic compounds Al alloy composite by using porous nickel	Y.B. Choi K. Matsugi G. Sasaki	Journal of composite materials, 48 , 18 (2014) pp. 2289-2295

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B12 Effect of SiO ₂ amount on microstructures and tensile properties of alumina short fiber-reinforced composites by low-pressure infiltration method	Moonhee Lee Yongbum Choi Kazuhiro Matsugi Gen Sasaki Tulugan Kelimu	Journal of composite materials, 48 , 27 (2014) pp. 3435-3441
B13 Effect of dispersibility of TiB ₂ particles on electrical conductivity in TiB ₂ /Al composites	Gen Sasaki Kota Ishikawa Yonbum Choi Kenjiro Sugio Kazuhiro Matsugi	Materials Science Forum, 783-786 (2014) pp. 1573-1578
B14 Prediction of Mechanical Properties on Zinc System Alloys and Their Application to High Temperature Lead-Free Solder	Zhefeng Xu Kazuhiro Matsugi Yongbum Choi Keigo Terada Ken-ichiro Suetsugu	Electronics System-Intergration Technology Conference (ESTC2014), (2014) pp. S924-1-S924-3
B15 Effective composite preparation between graphite and iron particles by the interfacial mediation of force-activated oxygen atoms	S. Motozuka M. Tagaya K. Shiba ZF. Xu M. Nishikawa T. Yoshioka T. Ikoma J. Tanaka	Industrial & Engineering Chemistry Research, 53 (2014) pp. 16736-16753
B16 Synthesis of luminescent nanoporous silica spheres functionalized with folic acid for targeting to cancer cells	M. Tagaya T. Ikoma ZF. Xu J. Tanaka	Inorganic chemistry, 53 (2014) pp. 6817-6827
B17 Control of electrical and thermal properties by 8 vol% Al ₂ O ₃ distribution states in Zn-50Sn for AC-Low voltage fuses	Kazuhiro Matsugi Hiromu Matsumoto Yongbum Choi Gen Sasaki Ken-ichiro Suetsugu Koji Fujii	Materials transactions, 55 , 3 (2014) pp. 577-585
B18 Microstructure observation of preform for high performance VGCF/Aluminum composites	Okyoung Lee Moonhee Lee Yongbum Choi Kenjiro Sugio Kazuhiro Matsugi Gen Sasaki	Materials Transactions, 55 , 5 (2014) pp. 827-830
B19 Image processing characterization of microstructures of Al-Si casting alloy	Kenjiro Sugio Shota Furukawa Taruho Kengai Junji Tabata Gen Sasaki	Materials Science Forum, 783-786 (2014) pp. 240-245
B20 Microstructure Control of CNF/Aluminum Composites and Effect on Electrical Conductivity	Gen Sasaki Ok-Yong Lee Yong-Bum Choi Kenjiro Sugio Kazuhiro Matsugi	Proc. of JSME Int'l Conf. on Materials and Processing, Paper No. ICMP2014-4952 (2014)
B21 Thermal Properties of titanium boride particle reinforced pure aluminum composites	G. Sasaki T. Hirose O.Y. Lee Y.B. Choi K. Sugio K. Matsugi	Proc. of Canada-Japan Workshop on Composites, (2014)
B22 Evaluation of Electrical and Thermal Properties of Titanium Boride Dispersed Aluminum Composites by Spark Plasma Sintering Process	Gen Sasaki Okyoung Lee Takaaki Hirose Kota Ishikawa Kenjiro Sugio Yongbum Choi Kazuhiro Matsugi	Proc. of 2014 ASC 29 / US-Japan 16 / ASTM D30 Conference, paper No. 116 (2014)

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B23 Development and Mechanical Properties of High Temperature Lead Free Solder Composites	Gen Sasaki Meihong Niu Kenjiro Sugio Yongbum Choi Kazuhiro Matsugi	Abs of The 11th China-Japan Joint Conf. on Composite Materials (CJCC-11), (2014)
B24 Kinetics analysis of phenol and benzene decomposition in supercritical water	Tau Len-Kelly Yong Yukihiko Matsumura	J. Supercrit. Fluids, 87 (2014) pp. 73-82
B25 Process evaluation for torrefaction of empty fruit bunch in Malaysia	Kohei Kaminaka Yukihiko Matsumura Wissam Noaman Omar Yoshimitsu Uemura	J. Jpn. Petrol. Inst., 57 , 2 (2014) pp. 88-93
B26 Supercritical water gasification of ethanol fermentation residue of seaweed: effect of sodium chloride salt	Mohd Hafif Basha bin Mohamad Jamel Basha Yukihiko Matsumura Yutaka Nakashimada Toshinori Tsuru Tomoaki Minowa Yasufumi Mishima	International Journal of Nano and Biomaterials, 5 , 1 (2014) pp. 3-13
B27 Behavior of organics in kelp during hydrothermal pretreatment: Fundamental characteristics and effect of salt	Ryunosuke Matsumoto Tsunehiro Aki Yoshiko Okamura Takahisa Tajima Yutaka Nakashimada Yukihiko Matsumura	J. Jpn. Inst. Energy, 93 , 5 (2014) pp. 531-535
B28 Simulation of catalyst behavior during chemical vapor deposition processing of carbon nanotubes	Kazuki Nishi Shuhei Inoue Yukihiko Matsumura	Chemical Physics Letters, 604 , 3 (2014) pp. 1-4
B29 Comparative study of hydrothermal pretreatment of eucalyptus and oil palm empty fruit bunch for ethanol fermentation	Yukihiko Matsumura Yuta Fukutomi Yoshimitsu Uemura	J. Jpn. Petrol. Inst., 57 , 4 (2014) pp. 163-170
B30 Rules of thumb (empirical rules) for the biomass utilization by thermochemical conversion	Michael J. Antal, Jr. Lieve M. Helsen Masato Kouzu Jacques L��d�� Yukihiko Matsumura	J. Jpn. Inst. Energy, 93 , 8 (2014) pp. 684-702
B31 Gasification characteristics of alanine in supercritical water	Thachanan Samanmulya Shuhei Inoue Takahito Inoue Yoshifumi Kawai Haruhito Kubota Hiroto Munetsuna Takashi Noguchi Yukihiko Matsumura	J. Jpn. Petrol. Inst., 57 , 5 (2014) pp. 225-229
B32 Gasification characteristics of amino acids in supercritical water	Thachanan Samanmulya Shuhei Inoue Takahito Inoue Yoshifumi Kawai Haruhito Kubota Hiroto Munetsuna Takashi Noguchi Yukihiko Matsumura	J. Jpn. Inst. Energy, 93 , 9 (2014) pp. 936-943
B33 Evaluation of marine sediments as microbial sources for methane production from brown algae under high salinity	Toyokazu Miura Akihisa Kita Yoshiko Okamura Tsunehiro Aki Yukihiko Matsumura Takahisa Tajima Junichi Kato Yutaka Nakashimada	Bioresource Technology, 169 (2014) pp. 362-366
B34 Value-added lipid production from brown seaweed biomass by two-stage fermentation using acetic acid bacterium and thraustochytrid	Kim Hazel V. Arafiles Hiroaki Iwasaka Yuri Eramoto Yoshiko Okamura Takahisa Tajima Yukihiko Matsumura Yutaka Nakashimada Tsunehiro Aki	Applied Microbiology and Biotechnology, 98 , 22 (2014) pp. 9207-9216

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B35 New approach of catalyst-free biodiesel production from canola oil in supercritical tert-butyl methyl ether (MTBE)	Obie Farobie Yukihiko Matsumura	Fuel, 135 , 1 (2014) pp. 172-181
B36 Precursor and formation mechanism in the synthesis of carbon nanotubes by chemical vapor deposition	Shuhei Inoue Daisuke Nakahara Yukihiko Matsumura	Chem. Phys. Lett., 616-617 (2014) pp. 217-221
B37 Flow visualization and mixing in a rapidly mixed type tubular flame burner	Baolu Shi Jie Hu Hongwei Peng Satoru Ishizuka	Experimental Thermal and Fluid Science, 54 (2014) pp. 1-11
B38 Reexamination on methane/oxygen combustion in a rapidly mixed type tubular flame burner	Baolu Shi Daisuke Shimokuri Satoru Ishizuka	Combustion and Flame, 161 (2014) pp. 1310-1325
B39 An experimental study on the high frequency oscillatory combustion in tubular flame burners	Daisuke Shimokuri Yousuke Shiraga Kazuhiro Ishii Hidemi Toh Satoru Ishizuka	Combustion and Flame, 161 (2014) pp. 2025-2037
B40 Experimental and numerical investigation on the flow field of swirl type tubular flame burner	Baolu Shi Haiyan Miao Satoru Ishizuka Keiya Nishida	Proceedings of the ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, (2014) pp. DETC2014-34496
B41 Parametric amplification of attosecond pulse trains at 11 nm	J. Seres E. Seres B. Landgraf B. Ecker B. Aurand A. Hoffmann G. Winkler S. Namba T. Kuehl C. Spielmann	Sci. Rep., 4 (2014) pp. 04254
B42 Measurements of Localized Potential by LIF Polarization Spectroscopy in an Inertial-Electrostatic	T. Motoyasu S. Namba K. Takiyama	J. Korean Phys. Soc., 65 (2014) pp. 1205-1208
B43 Investigation of shock wave in an arc-jet He plasma by electric probe and emission spectroscopy	G. Kumagawa K. Kozue S. Fujino L. Matsuoka T. Endo S. Namba N. Tamura N. Ezumi	J. Korean Phys. Soc., 65 (2014) pp. 1252-1256
B44 Theoretical study on isotope-selective dissociation of the Lithium Chloride molecule using a designed terahertz-wave field	Akira Ichihara Leo Matsuoka Yuzuru Kurosaki Keiichi Yokoyama	JPS Conf. Proc., 1 , 013093 (2014) pp. 013093-1-013093-4
B45 A TPD and AR based comparison of accelerator neutron irradiation fields between ⁷ Li and W targets for BNCT	K. Tanaka S. Endo S. Yonai M. Baba M. Hoshi	Appl. Radiat. Isot., 88 (2014) pp. 229-232
B46 Measurement of the strength of iodine-125 seed moving at unknown speed during implantation in brachytherapy	K. Tanaka S. Endo K. Tateoka O. Asanuma K. Kamo K. Sato H. Takeda M. Takagi M. Hareyama J. Takada	J Radiat. Res ., 55 (2014) pp. 162-167

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B47 Study on detecting spatial distribution of neutrons and gammarays using amulti-imaging plate system	K. Tanaka S. Endo S. Yonai M. Baba M. Hoshi	Appl. Radiat. Isot., 88 (2014) pp. 143-146
B48 Estimation of β -ray dose in air and soil from Fukushima Daiichi Power Plant accident	S. Endo K. Tanaka T. Kajimoto N. T. Thanh J. M. Otaki T. Imanaka	J. Radiat. Res., 55 (2014) pp. 476-483
B49 Unraveling Low-Level Gamma Radiation-Responsive Changes in Expression of Early and Late Genes in Leaves of Rice Seedlings at litate Village, Fukushima	G. Hayashi J. Shibato T. Imanaka K. Cho A. Kubo S. Kikuchi K. Satoh S. Kimura S. Ozawa S. Fukutani S. Endo K. Ichikawa G. K. Agrawal S. Shioda M. Fukumoto R. Rakwal	The Journal of Heredity, 105 , 5 (2014) pp. 723-738
B50 Strength estimation of a moving ^{125}I source during implantation in brachytherapy: application to linked sources	K. Tanaka S. Endo K. Tateoka O. Asanuma M. Hori M. Takagi G. Bengua K. Kamo K. Sato H. Takeda M. Hareyama K. Sakata J. Takada	J. Radiat. Res., 55 (2014) pp. 1146-1152
B51 A comparison of the dose distributions between the brachytherapy ^{125}I source models, STM ^{125}I and Oncoseed 6711, in a geometry lacking radiation equilibrium scatter conditions	K. Tanaka K. Kamo K. Tateoka O. Asanuma K. Sato H. Takeda K. Sakata J. Takada	Journal of Radiation Research, (2014)
B52 A dosimetry method for low dose rate brachytherapy by EGS5 combined with regression to reflect source strength shortage	K. Tanaka K. Tateoka O. Asanuma K. Kamo K. Sato H. Takeda M. Takagi M. Hareyama J. Takada	Journal of Radiation Research, 55 (2014) pp. 608-612
B53 Near-threshold $^7\text{Li}(p,n)^7\text{Be}$ neutrons on the practical conditions using thick Li-target and Gaussian proton energies for BNCT	T. Kobayashi N. Hayashizaki T. Katabuchi K. Tanaka G. Bengua N. Nakao K. Kosako	Applied Radiation and Isotopes, 88 (2014) pp. 214-224

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B55 Measurements and parameterization of neutron energy spectra from targets bombarded with 120 GeV protons	T. Kajimoto N. Shigyo T. Sanami Y. Iwamoto M. Hagiwara H.S. Lee A. Soha E. Ramberg R. Coleman D. Jensen A. Leveling N.V. Mokhov D. Boehnlein K. Vaziri Y. Sakamoto K. Ishibashi H. Nakashima	Nucl. Instrum. Methods B, 337 (2014) pp. 68-74
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B60 Cyclic Stress-Strain Response and Martensitic Transformation Behavior for Type 304 Stainless Steel	Hiroshi Hamasaki Eiichiro Ishimaru Fusahito Yoshida	Applied Mechanics and Materials, 510 (2014) pp. 114-117
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B63 Effect of Counter Punch Pressure on Springback of High Strength Steel Sheet	K. Lawanwong H. Hamasaki R. Hino F. Yoshida	Advanced Materials Research, 939 (2014) pp. 305-312
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C96 Chemotaxis Simulation of Caenorhabditis Elegans Using an Active cord Mechanism in an Actual Environment	Shinya Nishikawa Zu Soh Yuichi Kurita Toshio Tsuji	C. elegans Development, Cell Biology and Gene Expression Meeting in association with The 6th Asia-Pacific C. elegans Meeting, (2014)
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C98 Design of Steering Wheel characteristics based on Human Arm Mechanical Properties	Kazuo Nishikawa Kouji Furukawa Isao Kawate Tooru Miyazaki Takahide Nouzawa Toshio Tsuji	Proceedings of the 2014 IEEE/SICE International Symposium on System Integration, (2014) pp. 508-513
C99 Development of a Continuous Sphygmomanometer Using Electromagnetic Induction	Harutoyo Hirano Tomohiro Fukuchi Zu Soh Yuichi Kurita Akihiko Kandori Yuko Sano Ryuji Nakamura Noboru Saeki Masashi Kawamoto Masao Yoshizumi Toshio Tsuji	2014 IEEE Biomedical Circuit and System Conference Proceedings, (2014) pp. 444-447
C100 Fingertip force estimation based on the deformation of the fingertip	Akihito Kibita Toshio Tsuji Yuichi Kurita	AsiaHaptics2014, (2014)
C101 Wearable pseudo-haptic interaction by using electrical muscle stimulation	Takaaki Ishikawa Toshio Tsuji Yuichi Kurita	AsiaHaptics2014, (2014)
C102 Concrete Surface Strain Measurement Using Moire fringes, Construction and Building Materials	S. Umemoto S. Tanoue N. Miyamoto T. Takaki I. Ishii T. Aoyama K. Fujii	Construction and Building Materials, 67 (2014) pp. 115-120

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C104 High-frame-rate Structured Light 3-D Vision for Fast Moving Objects	Y. Liu H. Gao Q. Gu T. Aoyama T. Takaki I. Ishii	Journal of Robotics and Mechatronics, 26 , 3 (2014) pp. 331-320
C105 Motion Transfer Control From Walking to Brachiation Through Vertical Ladder Climbing for a Multi-Locomotion Robot	Z. Lu T. Aoyama K. Sekiyama Y. Hasegawa T. Fukuda	IEEE/ASME Transactions on Mechatronics, 19 , 5 (2014) pp. 1681-1693
C106 Real-Time Optical Flow Estimation Using High-Frame-Rate Videos	Idaku Ishii	SIAM Conference on Imaging Science, (2014)
C107 A Fast 3-D Shape Measurement Method for Moving Object	Yongjiu Liu Hao Gao Qingyi Gu Tadayoshi Aoyama Takeshi Takaki Idaku Ishii	2014 International Conference on Progress in Informatics and Computing, (2014)
C108 Position/Attitude Control of an Object by Controlling a Fluid Field Using a Grid Pattern Air Nozzle	Takeshi Takaki Satomi Tanaka Tadayoshi Aoyama Idaku Ishii	Proc. IEEE Int. Conf. on Robotics and Automation, (2014)
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C115 Robot-mounted 500-fps 3-D Shape Measurement Using Motion-compensated Coded Structured Light Method	Jun Chen Yongjiu Liu Qingyi Gu Tadayoshi Aoyama Takeshi Takaki Idaku Ishii	Proceedings of the 2014 IEEE International Conference on Robotics and Biomimetics, (2014)

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D5 Optimal implementations of the approximate string matching and the approximate discrete signal matching on the memory machine models	Koji Nakano	International Journal of Parallel, Emergent and Distributed Systems, 29 , 2 (2014) pp. 104-118
D6 Implementations of the Hough Transform on the Embedded Multicore Processors	Xin Zhou Norihiro Tomagou Yasuaki Ito Koji Nakano	International Journal of Networking and Computing, 4 , 1 (2014) pp. 174-188
D7 Simple memory machine models for GPUs	Koji Nakano	International Journal of Parallel, Emergent and Distributed Systems, 29 , 1 (2014) pp. 17-37
D8 A Time Optimal Parallel Algorithm for the Dynamic Programming on the Hierarchical Memory Machine	Koji Nakano	Proc. of International Symposium on Computing and Networking, (2014) pp. 86-95
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D11 Random Address Permute Shift Technique for the Shared Memory on GPUs	Koji Nakano Susumu Matsumae Yasuaki Ito	Proc. of International Conference on Parallel Processing Workshops, (2014) pp. 429-438
D12 A GPU Implementation of Clipping-Free Halftoning using the Direct Binary Search	Hiroaki Kouge Yasuaki Ito Koji Nakano	Proc. of International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP LNCS 8630), (2014) pp. 57-70
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D15 An Efficient Implementation of the Gradient-based Hough Transform using DSP slices and block RAMs on the FPGA	Xin Zhou Yasuaki Ito Koji Nakano	Proc. of International Parallel and Distributed Processing Symposium Workshops, (2014) pp. 762-770
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D17 Thorough Evaluation of GPU Shared Memory Load and Store Instructions	Satoshi Okamoto Yasuaki Ito Koji Nakano Jacir L. Bordim	Proc. of International Symposium on Computing and Networking, (2014) pp. 614-616
D18 Approximation Algorithms for the Set Cover Formation by Oblivious Mobile Robots	Tomoko Izumi Sayaka Kamei Yukiko Yamauchi	Proceedings of the 18th International Conference on Principles of Distributed Systems, (2014) pp. 233-247
D19 How to Extract Seasonal Features of Sightseeing Spots from Twitter and Wikipedia (Preliminary Version)	Guanshen Fang Sayaka Kamei Satoshi Fujita	International Workshop on Networking, Computing, Systems, and Software, (2014)
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D23 Hierarchical Architecture for Peer-To-Peer Video on Demand Systems with the Notion of Dynamic Swarms	Yasuaki Yuji Satoshi Fujita	IEICE Trans. on Information and Systems, E97-D , 12 (2014) pp. 3025-3032
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D45 Interactive Environment for Learning by Problem-Posing of Arithmetic Word Problems Solved by One-step Multiplication and Division	Sho Yamamoto Yuki Akao Mitsutaka Murotsu Takehiro Kanbe Yuta Yoshida Kazushige Maeda Yusuke Hayashi Tsukasa Hirashima	The 22nd International Conference on Computers in Education Main Conference Proceedings, (2014) pp. 89-94
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D66 Variational Bayes for phase-type distribution	H. Okamura R. Watanabe T. Dohi	Communications in Statistics - Simulation and Computation, 43 , 8 (2014) pp. 2031-2044
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F38 Development of D- π -A dyes with pyrazine ring as electron-withdrawing anchoring group for dye-sensitized solar cells	Y. Ooyama K. Uenaka Y. Harima J. Ohshita	RSC Advances, 4 , 57 (2014) pp. 30225-30228
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F44 Light-induced saturation change in the angle-independent structural coloration of colloidal amorphous arrays	Ryoko Hirashima Takahiro Seki Kiyofumi Katagiri Yuki Akuzawa Tsukasa Torimoto Yukikazu Takeoka	J. Mater. Chem. C, 2 (2014) pp. 344-348
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F46 High-Pressure Synthesis and Structural Characterization of the Type II Clathrate Compound Na _{30.5} Si ₁₃₆ Encapsulating Two Sodium Atoms in the Same Silicon Polyhedral Cages	Shoji Yamanaka Masaya Komatsu Masashi Tanaka Hiroshi Sawa Kei Inumaru	J. Am. Chem. Soc., 136 , 21 (2014) pp. 7717-7725

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F48 Ship-in-bottle synthesis of the mixed-layered compounds of clay silicate/zirconium phosphate	Hiroshi Kawagoe Naoya Imo-oka Hiroyasu Shinohara Shoji Yamanaka	Dalton Trans., 43 , 27 (2014) pp. 10642-10650
F49 The Ba 4d-4f giant dipole resonance in complex Ba/Si compounds	C. J. Sahle C. Sternemann H. Sternemann J. S. Tse R. A. Gordon S. Desgreniers S. Maekawa S. Yamanaka F. Lehmkuhler D. C. F. Wieland K. Mende S. Huotari M. Tolan	J. Phys. B- Atom. Mol. Opt. Phys., 47 , 4 (2014) pp. Art. No. 045102
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F51 Synthesis and characteristics of novel layered silicate HUS-7 using benzyltrimethylammonium hydroxide and its unique and selective adsorption behavior of phenol	N. Tsunoji T. Ikeda M. Sadakane T. Sano	J. Mater. Chem. A, 2 (2014) pp. 3372-3380
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F53 Synthesis and structural characterization of isomers of Ru-substituted Keggin-type germanotungstate with dmsoligand	N. Shimizu T. Ozeki H. Shikama T. Sano M. Sadakane	J. Cluster Sci., 25 (2014) pp. 755-770
F54 Preparation and redox studies of α_1 - and α_2 -isomers of mono-Ru-substituted Dawson-type phosphotungstates with a DMSO ligand: [α_1/α_2 -P ₂ W ₁₇ O ₆₁ Ru ^{II} (DMSO)] ⁸⁻⁻	S. Ogo N. Shimizu K. Nishiki N. Yasuda T. Mizuta T. Sano M. Sadakane	Inorg. Chem., 53 (2014) pp. 3526-3539
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H3 Maneuvering Simulation of Two Ships during Meeting and Passing	K. Kitagawa M. Sano H. Yasukawa	Jurnal Teknologi, Special Issue on Marine Technology: Safety and Environment, Vol.69 , No.7 (2014) pp. 85-90
H4 Directional Stability of a Ship in Close Proximity to Channel Wall	M. Sano H. Yasukawa H. Hata	J. Marine Science and Technology, Vol.19 , No.4 (2014) pp. 376-393
H5 Maneuvering prediction of a KVLCC2 model in shallow water by a combination of EFD and CFD	H. Yasukawa M. Sano	Proc. of workshop on verification and validation of ship manoeuvring simulation methods, (2014) pp. 115-121
H6 Stern Skeg Effects on Course Stability of a Ship with Azimuthing Propellers	Susumu Tanaka Takuya Fukushima Noritaka Hirata Hironori Yasukawa	Proceedings of the Twenty-fourth (2014) International Ocean and Polar Engineering Conference, (2014) pp. 948-955
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H8 Numerical Study on Propulsion and Seakeeping Performance of a Fishing Boat Improving in Bow and Stern	MUTSUDA, H. T. Go Y. Doi	Proc. of 2nd International Symposium on Naval Architecture and Maritime, Vol.1 (2014) pp. 263-272
H9 An Experimental study of wave power generation using flexible piezoelectric device	Tanaka, Y. T. Oko Mutsuda, H. R. Patel S. McWilliam A. Popov	Proceedings of the 24rd International Society of Offshore and Polar Engineers (ISOPE), CD-R (2014) pp. 537-544
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H11 Flexible Piezoelectric Sheet for Wind Energy Harvesting	Mutsuda, H. J. Miyagi Y. Doi Y. Tanaka H. Takao Y. Sone	International Journal of Energy Engineering, Iss.2 (2014) pp. 67-75
H12 A Hybrid Particle-Grid Scheme for Computing Hydroelastic Behaviors Caused by Slamming	Mutsuda, H. S. Baso Y. Doi	Journal of Shipping and Ocean Engineering, Vol.4 (2014) pp. 15-26
H13 Chlorophyll and suspended sediment mapping to the Caribbean Sea from rivers in the capital city of the Dominican Republic using ALOS AVNIR-2 data	Yuji Sakuno Esteban R. Miño A. Satoshi Nakai Hidemi Mutsuda Tetsuji Okuda Wataru Nishijima Rolando Castro et. al.	Environmental Monitoring and Assessment, 186 (2014) pp. 4181-4193

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H15 Relationship between spectral reflectance and chlorophyll-a concentration in the eutrophic Lake Togo-ike	Yuji Sakuno Keisuke Hatakeyama Yasushi Miyamoto Akiko Hatsuda Akinori Mori Takahiro Kuki	SPIE Remote Sensing 2014, (2014)
H16 A Study on the Aerodynamic Properties of a Canard-Configuration WISES	Yuma Ito Hidetsugu Iwashita	Proceedings of 29th International Workshop on Water Waves and Floating Bodies, (2014) pp. 89-92
H17 On Steady and Unsteady Aerodynamics of Rectangular Wing Flying in the Ground Effect	Yuma Ito Hidetsugu Iwashita	Proceedings of Workshop on Environmental Technologies in Naval Architecture and Ocean Engineering, (2014) pp. 29-32
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H23 Superior Seaworthiness of a Resonance-Free Oceangoing SWATH	Motoki Yoshida Hajime Kihara Hidetsugu Iwashita Masamitsu Kanda Takeshi Kinoshita	International Journal of Maritime Engineering, 156 (2014) pp. 315-332
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H31 Structural topology optimization with strength and heat conduction constraints	A. Takezawa G. H. Yoon S. H. Jeong M. Kobashi M. Kitamura	Comput. Meth. Appl. Mech. Eng., 276 (2014) pp. 341-361
H32 Design methodology of piezoelectric energy-harvesting skin using topology optimization	A. Takezawa M. Kitamura S. L. Vatanabe E. C. N. Silva	Struct. Multidisc. Optim., 49 , 2 (2014) pp. 281-297
H33 Phase field method to optimize dielectric devices for electromagnetic wave propagation	A. Takezawa M. Kitamura	J. Comput. Phys., 257A (2014) pp. 216-240
H34 Layout optimization methodology of piezoelectric transducers in energy-recycling semi-active vibration control systems	A. Takezawa K. Makihara N. Kogiso M. Kitamura	J. Sound Vib., 333 (2014) pp. 327-344
H35 Development of a novel phase-field method for local stress-based shape and topology optimization	S. H. Jeong G. H. Yoon A. Takezawa D. H. Choi	Comput. Struct., 132 (2014) pp. 84-98
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H38 Damage detection method for plank using topology optimization in non-destructive testing	T. Nishizu A. Takezawa M. Kitamura	Proceedings of 8th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, 8 (2014)
H39 A Study on Optimization the Structure of Ship in Consideration of Layout of the Stiffeners	R. Nonami M. Kitamura A. Takezawa S. Hirakawa	Proceedings of the Twenty-fourth International Ocean and Polar Engineering Conference, 24 (2014)
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H43 Thorn-shape Waveform Seen in the Impulsive Force of Soft Material	Chen Liu Yukio Fujimoto Yoshikazu Tanaka	International symposium on Engineering and Natural Sciences(ISEANS-835), 4 (2014) pp. 32-41
H44 Forced vibration experiments on flexible piezoelectric devices operating in air and water environments	Y. Tanaka T. Oko H. Mutsuda A. A. Popov R. Patel S. McWilliam	International Journal of Applied Electromagnetics and Mechanics, 45, 1-4 (2014) pp. 573-580
H45 Study on flexible piezoelectric device for compressive loads	K. Shinagawa Y. Tanaka H. Mutsuda	International Journal of Applied Electromagnetics and Mechanics, 45, 1-4 (2014) pp. 163-170
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H50 Development of system dynamics model for the demand forecasting of ships in consideration of short-term changes	Yui Ishihara Kunihiro Hamada Noritaka Hirata Shohei Miura Hazutaka Seki Shinji Yamada	TEAM 2014 Conference Proceedings, 28 (2014) pp. 522-527
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I2 Control of cracking in full-scaled columns made of ultra-high-strength concrete	Ippei Maruyama Makoto Tanimura Yuji Mitani Shinsuke Ishikawa Souichi Tateyama Atsushi Teramoto	Materials and Structures, (2014)
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I6 Experimental evaluation of dynamic characteristics of seesaw energy dissipation system for vibration control of structures	Jaedo Kang Hiroshi Tagawa	Earthquake Engineering & Structural Dynamics, 43 (2014) pp. 1889-1895
I7 Development of Building Inventory Data and Earthquake Damage Estimation in Lima, Peru for Future Earthquakes	Masashi Matsuoka Shun Mito Saburoh Midorikawa Hiroyuki Miura Luis Quiroz Yoshihisa Maruyama Miguel Estrada	Journal of Disaster Research, 9 , 6 (2014) pp. 1032-1041
I8 Evaluation of Site Effects on Strong Ground Motion Records in Concepcion during the 2010 Maule, Chile Earthquake	Saburoh Mirorikawa Hiroaki Yamanaka Kosuke Chimoto Rafael Riddel Hiroyuki Miura Koichi Saguchi	Bulletin of the Seismological Society of America, 105 , 5 (2014) pp. 2503-2511
I9 Site Characterization for Strong Motion Data of the 2011 Tohoku, Japan Earthquake	Saburoh Midorikawa Hiroyuki Miura Yoshihiro Nogi	Proceedings of 10th U.S. National Conference on Earthquake Engineering, (2014)
I10 Seismic response of building frames with flexible base optimized for reverse rocking responses	Makoto Ohsaki Osamu Iwatsuki Hidekazu Watanabe	Engineering Structures, 74 , 1 (2014) pp. 170-179
I11 FE-analysis and experiment of optimized and standard link members of K-brace for passive seismic energy dissipation	Makoto Ohsaki Junki Nozoe Hidekazu Watanabe	Proc. Computational Engineering and Science for Safety and Environmental Problems, (2014) pp. 606-609
I12 Parameter identification and numerical analysis of spring steel damper with a heuristic optimization approach	Makoto Yamakawa Masahiko Tatibana Kyouzou Hukazawa Mitsuki Nihei Makoto Ohsaki Takuzo Nakamura Hiroyuki Yamanouchi	Proc. 8th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM8), (2014) pp. No. 0104
I13 Robust design optimization of building frames using order statistics and local search	Yusei Taniguchi Makoto Ohsaki Makoto Yamakawa	Proc. 8th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM8), (2014) pp. No. 0059

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I15 Finite element analysis of damping mechanism of autoclaved lightweight aerated concrete panels for exterior walls of steel structures	Masayuki Kohiyama Makoto Ohsaki Tomoshi Miyamura Takuzo Yamashita	Proc. 11th World Congress of Computational Mechanics (WCCM11), (2014) pp. No. 1137
I16 Form-finding and stability analysis of tensegrity structures using nonlinear programming and fictitious material properties	Makoto Ohsaki Jingyao Zhang Tetsuto Taguchi	Proc. 5th Int. Conf. on Computational Mechanics (ICCM2014), (2014) pp. No. 89
I17 Linear programming approach to design of spatial link mechanism with partially rigid joints	Makoto Ohsaki Yoshihiro Kanno Seita Tsuda	Structural and Multidisciplinary Optimization, 50 (2014) pp. 945-956
I18 Urban Environmental Climate Maps for Urban Planning Considering Urban Heat Island Mitigation in Hiroshima	Kaoru Matsuo Takahiro Tanaka	Proceedings of the 7th Japanese-German Meeting on Urban Climatology, (2014)
I19 Future Thermal Environment Estimation in urbanized Area under the Depopulation-Scenario Evaluation in Kanagawa-	Makoto Yokoyama Kaoru Matsuo Takahiro Tanaka Satoru Sadohara	Proceedings of the 7th Japanese-German Meeting on Urban Climatology, (2014)
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I21 A Study on the Sustainable Use of the Forest Biomass Energy with Considering Satoyama Use Model in the Rural Area	Yuto Naritomi Takahiro Tanaka Daisaku Nishina Kaoru Kodama	Proceedings of the 10th International Symposium on Architectural Interchanges in Asia, 2 (2014) pp. 1095-1099
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I25 Study on the Comparison among the Psychological Evaluation for the Sightseeing Scenes by Japanese, Korean and Chinese Subjects	Toshiro Yoshihara Daisaku Nishina Takahiro Tanaka Kota Kawase Yuki Miyaji Yasuhiro Mukai	Proceedings of the 11th International Symposium on Environment-Behavior Studies, (2014) pp. 125-131
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I27 Umedzu Paper Mill: industrial architecture and influence of paper-making technology in the early Meiji Japan	Susumu Mizuta	Proceedings of 10th international symposium on architectural interchanges in Asia, II (2014) pp. 825-830
I28 Proposal for Urban Environment Using Icons with Fifth Year Elementary Students	Shoichiro Sendai	Proceedings of the International Conference on Kansei Engineering and Emotion Research, 2C (2014)
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J2 Complex permittivities of breast tumor tissues obtained from tumor surgeries	T. Sugitani S. Kubota S. Kuroki K. Sogo K. Arihiro M. Okada T. Kadoya M. Hide M. Oda T. Kikkawa	Applied Physics Letters, (2014) pp. 253702-1-253702-5
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J5 Model pulses in the TD design of UWB wireless signal transfer systems	I. E. Lager A. T. de Hoop T. Kikkawa	European Conference on Antennas and Propagation, (2014) pp. 3703-3707
J6 Resolution of confocal imaging using 4×4 planar antenna array	T. Sugitani S. Kubota X. Xiao H. Kono T. Kikkawa	European Conference on Antennas and Propagation, (2014)
J7 Time Domain Reflectometry Using IR-UWB CMOS Integrated Circuits for Breast Cancer Detection	T. Sugitani K. Hashimoto Y. Seo H. Kono T. Kikkawa	IEEE International Conference on Ultra-wideband, (2014)
J8 A 17 GHz Bandwidth 1.2 mW CMOS Switching Matrix for UWB Breast Cancer Imaging	A. Azhari S. Takumi S. Kenta T. Kikkawa X. Xiao	IEEE Biomedical Circuits and Systems Conference, (2014)
J9 Tumor Response Extraction Based on Ensemble Empirical Mode Decomposition for Early Breast Cancer Detection by UWB	Q. Li, X X. Xiao H. Song L. Wang T. Kikkawa	IEEE Biomedical Circuits and Systems Conference, (2014)
J10 Effect of ozone radical treatment for high-performance poly-Si TFTs	T. Hirata S. Kuroki M. Yamano T. Sato K. Kotani T. Kikkawa	IEEE International Workshop on Active-Matrix Flatpanel Displays and Devices, (2014)
J11 Low Resistance Ohmic Contact Formation of Ni Silicide on Partially Si Ion Implanted n^+ 4H-SiC	M. De Silva T. Sato S. Kuroki T. Kikkawa	Materials Science Forum, 778 (2014) pp. 689-692

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J13 Memory Based Hardware-Accelerated System for High-Speed Human Detection	I. B. Wicaksono F. An H.J. Mattausch	Advanced Robotics, 28 , 5 (2014)
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J15 Associative Memory Architecture for Word-Parallel Smallest Euclidean Distance Search Using Distance Mapping into Clock-Number Domain	T. Akazawa S. Sasaki H.J. Mattausch	Jpn. J. Appl. Phys, 53 , 4SI (2014) pp. 1-7
J16 Compact modeling of injection-enhanced insulated-gate bipolar transistor for accurate circuit switching prediction	T. Yamamoto M. Miyake H. Kato U. Feldmann H.J. Mattausch M. Miura-Mattausch	Jpn. J. Appl. Phys, 53 , 4SI (2014) pp. 1-6
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J22 Development of NBTI and Channel Hot Carrier (CHC) Effect Models and their Application for Circuit Aging Simulation	C. Ma H.J. Mattausch K. Matsuzawa S. Yamaguchi T. Hoshida M. Imade R. Koh T. Arakawa M. Miura-Mattausch	Proceedings of the 11th International Workshop on Compact Modeling (IWCM 2014), (2014) pp. 49-52

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J27 Mobility Model for Advanced SOI-MOSFETs Including Back-Gate Contributions	H. Zenitani H. Miyamoto H. Kikuchihara U. Feldmann H.J. Mattausch M. Miura-Mattausch	Extended Abstracts of the 2014 International Conference on Solid State Devices and Materials (SSDM 2014), (2014) pp. 856-857
J28 OTFT Circuit Design for Actuator Driving Control in an Organic Fluid Pump	L. Chen T. K. Maiti H. Miyamoto M. Miura-Mattausch H.J. Mattausch	Extended Abstracts of the 2014 International Conference on Solid State Devices and Materials (SSDM 2014), (2014) pp. 908-909
J29 Accurate Physical Compact Models of High-Voltage/Power Semiconductor Devices for Efficient Design of Performance-Optimized Circuits and Systems	H.J. Mattausch T. Umeda H. Kikuchihara M. Miura-Mattausch	Extended Abstracts of the 2014 International Conference on Solid State Devices and Materials (SSDM 2014), (2014) pp. 1026-1027
J30 SoC Realization of LVQ Neural Network with On-chip Learning and Recognition	F. An T. Akazawa S. Yamazaki L. Chen H.J. Mattausch	Extended Abstracts of the 2014 International Conference on Solid State Devices and Materials (SSDM 2014), (2014) pp. 102-103
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J33 Modeling of Aging Effect for Advanced MOSFETs	C. Ma H.J. Mattausch K. Matsuzawa S. Yamaguchi T. Hoshida M. Imade R. Koh T. Arakawa M. Miura-Mattausch	Proceedings of the International Conference on Solid-State and Integrated-Circuit Technology (ICSICT 2014), (2014) pp. 712-715

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