

Vol. 62, Supplement

(Only Data in English)

**Bulletin of the Graduate School of Engineering
Hiroshima University**

March, 2014

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Published Papers

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| A1 Enhancement of Energy Coupling Efficiency in Fast-Ignition Laser Fusion by Electron Beam Guiding with Self-Generated Magnetic Field | Tomoyuki Johzaki Atsushi Sunahara Hideo Nagatomo Hitoshi Sakagami Shinsuke Fujioka Hiroyuki Shiraga Kunioki Mima | J. Plasma Fusion Res., 89 , 7 (2013) pp. 456-461 |
| A2 Present status of fast ignition realization experiment and inertial fusion energy development | Hiroshi Azechi Kunioki Mima Hiroyuki Shiraga Shinsuke Fujioka Hideo Nagatomo Tomoyuki Johzaki Takahisa Jitsuno Michael H. Key Ryosuke Kodama Mayuko Koga Kiminori Kondo Junji Kawanaka Noriaki Miyanaga Masakatsu Murakami Keiji Nagai Mitsuo Nakai Hirotaka Nakamura Tatsufumi Nakamura Tomoharu Nakazato Yasuyuki Nakao Katsunobu Nishihara Hiroaki Nishimura Takayoshi Norimatsu Peter Norreys Tetsuo Ozaki John Pasley Hitoshi Sakagami Youichi Sakawa Nobuhiko Sarukura Keisuke Shigemori Toshihiko Shimizu Atsushi Sunahara Toshihiro Taguchi Kazuo Tanaka Kouji Tsubakimoto Yasushi Fujimoto Hirofumi Homma Akifumi Iwamoto | Nuclear Fusion, 53 , 10 (2013) pp. 104021 |
| A3 Effects of laser profiles on fast electron generation under the same laser energy | Masayasu Hata Hitoshi Sakagami Tomoyuki Johzaki Hideo Nagatomo | Laser and Particle Beams, 31 , 03 (2013) pp. 371-377 |

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| A4 Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma | Zhe Zhang Hiroaki Nishimura Takuya Namimoto Shinsuke Fujioka Yasunobu Arikawa Hideo Nagatomo Mitsuo Nakai Tetsuo Ozaki Mayuko Koga Tomoyuki Johzaki Atsushi Sunahara H. Chen J. Park G. J. Williams Hiroyuki Shiraga Sadaoki Kojima Masaharu Nishikino Tetsuya Kawachi Hirokazu Hosoda Yasuaki Okano Noriaki Miyanaga Junji Kawanaka Yoshiki Nakata Takahisa Jitsuno Hiroshi Azechi | HIGH ENERGY DENSITY PHYSICS, 9 , 3 (2013) pp. 435-438 |
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| A6 Analysis of Laser Wavelength and Energy Dependences of the Impulse in a Magnetic Thrust Chamber System for a Laser Fusion Rocket | Akihiro Maeno Naoji Yamamoto Shinsuke Fujioka Yoshitaka Mori Atsushi Sunahara Tomoyuki Johzaki Hideki Nakashima | TRANSACTIONS OF THE JAPAN SOCIETY FOR AERONAUTICAL AND SPACE SCIENCES, 56 , 3 (2013) pp. 170-172 |
| A7 Kilot Tesla Magnetic Field due to a Capacitor-Coil Target Driven by High Power Laser | Shinsuke Fujioka Zhe Zhang Kazuhiro Ishihara Keisuke Shigemori Youichiro Hironaka Tomoyuki Johzaki Atsushi Sunahara Naoji Yamamoto Hideki Nakashima Tsuguhiro Watanabe Hiroyuki Shiraga Hiroaki Nishimura Hiroshi Azechi | SCIENTIFIC REPORTS, 3 (2013) pp. 1170 |
| A8 Effects of laser temporal profile on fast electron characteristics | Masayasu Hata Hitoshi Sakagami Tomoyuki Johzaki Hideo Nagatomo | EPJ Web of Conferences, 59 (2013) pp. 17004 |
| A9 Suppression effects of Weibel instability for fast electron divergence | Hitoshi Sakagami Tomoyuki Johzaki Toshihiro Taguchi Kunioki Mima | EPJ Web of Conferences, 59 (2013) pp. 17016 |
| A10 Optimum design of imploded core plasma for effective fast ignition at GXII | Hideo Nagatomo Tomoyuki Johzaki Atsushi Sunahara Hitoshi Sakagami Takumi Yanagawa Kunioki Mima | EPJ Web of Conferences, 59 (2013) pp. 03007 |

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| A15 Development of a High Frequency Pulse Detonation Combustor by a Liquid Purge Method | K. Matsuoka T. Mukai T. Endo | 2013 International Workshop on Detonation for Propulsion, (2013) pp. 312-318 |
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| A19 Implosion and heating experiments of fast ignition targets by Gekko-XII and LFEX lasers | Hiroyuki Shiraga Shinsuke Fujioka Mitsuo Nakai Takeshi Watari Hirotaka Nakamura Yasunobu Arikawa Hirokazu Hosoda Takahiro Nagai Mayuko Koga Hirofumi Kikuchi Yoshinori Ishii Takehiro Sogo Keisuke Shigemori Hiroaki Nishimura Zhe Zhang Minoru Tanabe Shinji Ohira Yuuta Fujii Takuya Namimoto Youichi Sakawa Osamu Maegawa Tetsuo Ozaki Kazuo Tanaka Hideaki Habara Tomoyuki Iwawaki Kyoko Shimada Michael H. Key Peter Norreys John Pasley Hideo Nagatomo Tomoyuki Johzaki Atsushi Sunahara Masakatsu Murakami Hitoshi Sakagami Toshihiro Taguchi Takayoshi Norimatsu Hirofumi Homma Yasushi Fujimoto Akifumi Iwamoto Noriaki Miyanaga Junji Kawanaka Tadao Kanabe Takahisa Jitsuno Yoshiki Nakata Kouji Tsubakimoto Keiichi Sueda Ryosuke Kodama Kiminori Kondo Noboru Morio Satoshi Matsuo et al. | EPJ Web of Conferences, 59 (2013) pp. 01008 |
| A20 Deformation mode dependency on strain rate sensitivity of volume resistivity in TRIP steel | Takeshi Iwamoto Shiro Yamanaka Alexis Rusinek | Key Engineering Materials, 535-536 (2013) pp. 473-476 |
| A21 An experimental evaluation on change in impedance of TRIP steel subjected to plastic deformation at various strain rates | Daiki Inoshita Shiro Yamanaka Takeshi Iwamoto | Key Engineering Materials, 535-536 (2013) pp. 445-448 |
| A22 An experimental study on rate sensitivity of J-integral and its evaluation by small punch test for TRIP steel | Leishi Shi Takeshi Iwamoto Shinya Hashimoto | Engineering Transactions, 61 , 2 (2013) pp. 119-136 |
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| A28 FEM stress analysis and strength prediction of scarf adhesive joints under static bending moments | Hiroko Nakano Yasuhisa Sekiguchi Toshiyuki Sawa | International Journal of Adhesion and Adhesives, 44 (2013) pp. 166-173 |
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| A33 Development of a Damage Diagnosis for Gear using a Laser Beam (A Proposal for a Method of Creating Benchmark Data to be used in Diagnosis) | Eiichirou Tanaka Yuta Kojima Kazunari Okabe Hitoshi Takebe Satoshi Wada Kazuteru Nagamura Kiyotaka Ikejo | Journal of Advanced Mechanical Design, Systems, and Manufacturing, 7 , 3 (2013) pp. 348-361 |
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| A35 A Prediction Method of Wear on Tooth Surface for Spur Gears | Shotaro Inoue Kiyotaka Ikejo Kazuteru Nagamura Natsuhiko Seyama Shinya Nakagawa | Proceedings of the ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference IDETC/CIE 2013, August 4-7, 2013, Portland, Oregon, USA, ASME Paper No. DETC2013-12748, (2013) |
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| A40 Reexamination on Methane/Oxygen Combustion in a Rapidly Mixed Type Tubular Flame Burner | Baolu Shi Daisuke Shimokuri Satoru Ishizuka | Combustion and Flame, (2013) |
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| A48 Mixture formation processes of gasoline/ethanol blended fuel spray injected by hole-type nozzle for D.I. gasoline engines | Run Chen Masaharu Chato Keiya Nishida Youichi Ogata Baolu Shi | The 16th Annual Conference of the Institute for Liquid Atomization and Spray Systems-Asia, (2013) pp. 164-169 |
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| B20 ELECTRICAL CONDUCTIVITY AND SPATIAL DISTRIBUTION OF PARTICLE DISPERSED COMPOSITES | Kenjiro Sugio Narihiro Kawano Kota Ishikawa Moonhee Lee Gen Sasaki | Proceedings of 19th International Conference on Composite Materials, July 28 to August 2, 2013, Montreal Canada, (2013) pp. 7772-7777 |
| B21 PREPARATIONS AND EVALUATION OF ELECTRICAL CONDUCTIVITY FOR TiB ₂ / Al COMPOSITES BY SPARK SINTERING PROCESS | G. Sasaki K. Ishikawa M. H. Lee Y. B. Choi K. Sugio K. Matsugi | Proceedings of 19th International Conference on Composite Materials, July 28 to August 2, 2013, Montreal Canada, (2013) pp. 945-952 |
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