

APPENDIX 6. List of Publications II (Journals, etc.)

- (1) Akiyama T., Yoshida N., Kawahata K., Tokitani M., Iwakiri H., Okajima S., Nakayama K.
Studies of reflectivity degradation of retroreflectors in LHD and mitigation of impurity deposition using shaped diagnostic ducts and protective windows
Nuclear Fusion Vol. 52 No. 6 -2012 063014-1 -10
- (2) Asahi Y., Suzuki Y., Watanabe K., Cooper W.
Development of an identification method of pressure anisotropy based on equilibrium analysis and magnetics
Physics of Plasmas Vol. 20 No. 2 -2013 022503-1 -7
- (3) Asakura Y., Tanaka M., Ogawa H., Takami S.
Design and evaluation of gaseous tritium recovery system using commercially available membrane type dehumidifier
Journal of Nuclear Science and Technology Vol. 49 No. 10 -2012 1018-1027
- (4) Azuma R., Hochin T., Nomiya H., Nakanishi H., Kojima M.
Towards Parallel Processing of Similarity Retrieval System of Time Series
Proceeding SNPD '12 Proceedings of the 2012 13th ACIS Vol. No. -2012 726-731
International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing
- (5) Banerjee S., Zushi H., Nishino N., Nagashima Y., Hanada K., Ishiguro M., Ryoukai T., Tashima S., Inoue T., Nakamura K., Idei H., Hasegawa M., Fujisawa A., Matsuoka K.
Fast visible imaging and edge turbulence analysis in QUEST
Review of Scientific Instruments Vol. 83 No. -2012 10E524-1-10E524-3
- (6) Baumgaertel J., Hammett G., Mikkelsen D., Nunami M., Xanthopoulos P.
Gyrokinetic studies of the effect of β on drift-wave stability in the National Compact Stellarator Experiment
Physics of Plasmas Vol. 19 No. 12 -2012 122306-1 -9
- (7) Bierwage A., Aiba N., Todo Y., Deng W., Ishikawa M., Matsunaga G., Shinohara K., Yagi M.
Nonlinear Simulation of Energetic Particle Modes in High-Beta Tokamak Plasma
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2403081-1 -4
- (8) Celik Y., Tsankov T., Aramaki M., Yoshimura S., Luggenholtscher D., Czarnetzki U.
Recombination and enhanced metastable repopulation in the argon afterglow
Physical Review E Vol. 85 No. 5 -2012 056401-1 -12
- (9) Celik Y., Tsankov T., Aramaki M., Yoshimura S., Luggenholtscher D., Czarnetzki U.
Electron cooling in decaying low-pressure plasmas
Physical Review E Vol. 85 No. 4 -2012 046407-1 -6
- (10) Chen W., Isobe M., Toi K., Ogawa K., Du X., Osakabe M., Ohdachi S.
Observation of Low Frequency MHD Mode Driven by Energetic Particles in Large Helical Device Plasmas with Strong Interchange Mode Activities
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2402079-1 -4
- (11) Chikaraishi H.
Conceptual design of dc power supplies for FFHR superconducting magnet
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2405051-1 -5
- (12) Ding X., Murakami I., Kato D., Sakaue H., Koike F., Dong C.
Collisional-Radiative Modeling of W^{27+}
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2403128-1 -4
- (13) Dong C., Morita S., Goto M., Wang E.
Extension of wavelength range in absolute intensity calibration of space-resolved EUV spectrometer for LHD diagnostics
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2402139-1 -5
- (14) Dong C., Morita S., Goto M., Wang E., Murakami I., Sakamoto R., Yamamoto N.
Observation of Impurity Accumulation After Hydrogen Multi-Pellet Injection in Large Helical Device
Plasma Science and Technology Vol. 15 No. 3 -2013 230-234
- (15) Dong C., Morita S., Tokitani M., Goto M., Sakaue H., Wang E., Zushi H.
Effect of high-energy neutral particles on extreme ultraviolet spectroscopy in large helical device
Review of Scientific Instruments Vol. 83 No. 10 -2012 10D509-1-10D509-3

- (16) Dong J., Shi Y., Tamura N., Jhang H., Watanabe T., Ding X.
APTWG: 2nd Asia-Pacific Transport Working Group Meeting
Nuclear Fusion Vol. 53 No. 2 -2013 027001-1 -11
- (17) Du X., Ohdachi S., Toi K.
Development of an Array System of Soft X-ray Detectors with Large Sensitive Area on the Large Helical Device
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2401088-1 -4
- (18) Emoto M., Yoshida M., Suzuki C., Suzuki Y., Ida K., Nagayama Y., Akiyama T., Kawahata K., Narihara K., Tokuzawa T., Yamada I.
Performance Improvement in Real-Time Mapping of Thomson Scattering Data to Flux Coordinates in LHD
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2405058-1 -4
- (19) Fujioka S., Zhang Z., Ishihara K., Shigemori K., Hironaka Y., Johzaki T., Sunahara A., Yamamoto N., Nakashima H., Watanabe T., Shiraga H., Nishimura H., Azechi H.
Kilotesla Magnetic Field due to a Capacitor-Coil Target Driven by High Power Laser
Scientific Reports Vol. 3 No. 1170 -2013 1170-1-7
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High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics
Plasma Physics and Controlled Fusion Vol. 54 No. 12 -2012 124042
- (21) Fujiwara S., Hashimoto M., Itoh T., Horiuchi R.
Micellar Shape Change in Amphiphilic Solution: A Molecular Dynamics Study
Chemistry Letters Vol. 41 No. 10 -2012 1038-1040
- (22) Goto T., Miyazawa J., Tamura H., Tanaka T., Hamaguchi S., Yanagi N., Sagara A.
Design Window Analysis for the Helical DEMO Reactor FFHR-d1
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2405084-1 -5
- (23) Goto T., Tanaka T., Tanaka M., Sagara A.
Proposal of an MFE-IFE cooperative system for a steady-state tritium balance
Fusion Engineering and Design Vol. 7 No. 7-8 -2012 1286-1290
- (24) Gotoh T., Hatanaka S., Miura H.
Spectral compact difference hybrid computation of passive scalar in isotropic turbulence
Journal of Computational Physics Vol. 231 No. 21 -2012 7398-7414
- (25) Gotoh T., Yeung P.
Passive Scalar Transport in Turbulence: A Computational Perspective
Ten Chapters in Turbulence Vol. No. -2012 87-131
- (26) Hamada A., Kobayashi M., Matsuoka K., Suzuki M., Osuo J., Ashikawa N., Sagara A., Oya Y., Okuno K.
Study on the retention behavior of hydrogen isotopes and the change of chemical states of boron film exposed to hydrogen plasma in LHD
Fusion Engineering and Design Vol. 87 No. 7-8 -2012 1214-1217
- (27) Hamada Y., Watari T., Nishizawa A., Yamagishi O., Narihara K., Kawasumi Y., Ido T., Kojima M., Toi K.
Regions of kinetic geodesic acoustic modes and streamers in JIPPT-IIU tokamak plasmas
Nuclear Fusion Vol. 52 No. 6 -2012 63023
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QUEST Experiments Towards Steady State Operation of Spherical Tokamaks
IEEE Transactions on Fundamentals and Materials Vol. 132 No. 7 -2012 490-498
- (29) Hasegawa H., Ishiguro S.
Particle Simulation of Plasma Blob Dynamics: Preliminary Results
Plasma and Fusion Research Vol. 7 No. Special Issue -2012 2401060-1 -4
- (30) Hasegawa M., Nakamura K., Tokunaga K., Zushi H., Hanada K., Fujisawa A., Idei H., Kawasaki S., Nakashima H., Higashijima A.
A Plasma Shape Identification with Magnetic Analysis for the Real-time Control on QUEST
IEEE Transactions on Fundamentals and Materials Vol. 132 No. 7 -2012 477-484
- (31) Hashida M., Miyasaka Y., Ikuta Y., Otani K., Tokita S., Sakabe S.
Periodic Nano-Grating Structures Produced by Femtosecond Laser Pulses for Metals with Low- and High-Melting Points
Journal of Laser Micro/Nanoengineering Vol. 7 No. 2 -2012 194-197

- (32) Hashimoto A., Watanabe T., Takahashi T.
Particle-Tracking Calculation of Classical Transport in High-Beta Field-Reversed Configuration Plasma
Plasma and Fusion Research Vol. 8 No. Regular Issue -2013 1203011-1 -2
- (33) Hasuo M., Fujii K., Shikama T., Morita S., Goto M., Tanaka H.
Wideband High-Resolution Spectroscopy of Al-pellet Ablation Plasmas in Large Helical Device
Journal of Physics: Conference Series Vol. 397 No. 1 -2012 12016
- (34) Hata M., Sakagami H., Sunahara A., Johzaki T., Nagatomo H.
Effects of CH foam preplasma on fast ignition
Laser and Particle Beams Vol. 30 No. 02 -2012 189-197
- (35) Hino T., Yamauchi Y., Kimura Y., Nishimura K., Ueda Y.
Fuel hydrogen retention of tungsten and the reduction by inert gas glow discharges
Fusion Engineering and Design Vol. 87 No. 5-6 -2012 876-879
- (36) Hino T., Yamauchi Y., Nishimura K., Ueda Y.
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- (37) Hiraki Y., Watanabe T.
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Physics of Plasmas Vol. 19 No. 10 -2012 102904-1 -6
- (38) Hiratsuka J., Ejiri A., Hasegawa M., Nagashima Y., Takase Y., Tojo H., Yamaguchi T., Ambo T., Furui H., Hashimoto T., Kakuda H., Kato K., Oosako T., Sakamoto T., Shino R., Shinya T., Sonehara M., Wakatsuki T., Watanabe O.
Off-Axis Temperature Anisotropy Measurement by Double-Pass Thomson Scattering Diagnostic System on TST-2
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2402092-1 -5
- (39) Hirooka Y., Omoto N., Oishi T., Tanaka K.
Aerosol formation and hydrogen co-deposition by colliding ablation plasma plumes of lithium and lead
Fusion Engineering and Design Vol. 87 No. 10 -2012 1760-1764
- (40) Hishinuma Y., Kikuchi A., Iijima Y., Murakami S., Kawahata T., Matsuda K., Taniguchi H., Takeuchi T.
Development of New PIT Process using High Ga Content Compound in V_3Ga Superconducting Wire
Journal of the Cryogenic Society of Japan Vol. 47 No. 8 -2012 495-502
- (41) Hishinuma Y., Murakami S., Matsuda K., Tanaka T., Tasaki Y., Tanaka T., Nagasaka T., Sagara A., Muroga T.
Microstructure of Oxide Insulator Coating before and after Thermal Cycling Test
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2405127-1 -4
- (42) Horiuchi R., Den M., Tanaka T., Ohtani H., Usami S.
Macro- and microphysics of magnetic reconnection in a multi-hierarchy open system
Plasma Physics and Controlled Fusion Vol. 55 No. 1 -2013 14008
- (43) Ichiguchi K., Sakakibara S., Ohdachi S., Carreras B.
Numerical magnetohydrodynamic analysis of Large Helical Device plasmas with magnetic axis swing
Plasma Physics and Controlled Fusion Vol. 55 No. 1 -2013 14009
- (44) Ida K., Inagaki S., Suzuki Y., Sakakibara S., Kobayashi T., Itoh K., Tsuchiya H., Suzuki C., Yoshinuma M., Narushima Y., Yokoyama M., Shimizu A., Itoh S.
Topology bifurcation of magnetic flux surface in plasmas
New Journal of Physics Vol. 15 No. -2013 13061
- (45) Ida K., Kamiya K., Isayama A., Sakamoto Y.
Reduction of Ion Thermal Diffusivity Inside a Magnetic Island in JT-60U Tokamak Plasma
Physical Review Letters Vol. 109 No. 6 -2012 065001-1 -4
- (46) Idei H., Zushi H., Hanada K., Kalinnikova E., Nakamura K., Fujisawa A., Nagashima Y., Hasegawa M., Matsuoka K., Kariya T., Imai T., Yoshida N., Sakamoto M., Watanabe H., Tokunaga K., Ejiri A., Sakaguchi M., Ishiguro M., Tashima S., Fukuyama A., Igami H., Kubo S., Isobe M., Nagaoka K., Nakanishi H., Nishino N., Kawasaki S., Nakashima H., Higashijima A., Takase Y., Maekawa T., Mitarai O., Kikuchi M., Toi K.
ECW/EBW Heating and Current Drive Experiment Results and Prospects for CW Operation in QUEST
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2402112-1 -7
- (47) Igami H., Kubo S., Shimoizuma T., Yoshimura Y., Takahashi H., Idei H., Nishiura M., Ogasawara S., Makino R., Kumazawa R., Muto T., Sagara A., Goto T.
Experimental Results for Electron Bernstein Wave Heating in the Large Helical Device
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2402110-1 -5

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Development of a low-energy and high-current pulsed neutral beam injector with a washer-gun plasma source for high-beta plasma experiment
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- (49) Ikuno S., Fujita Y., Itoh T., Nakata S., Nakamura H., Kamitani A.
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Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2406044-1 -4
- (50) Ikuno S., Takayama T., Kamitani A.
Numerical Simulation of Permanent Magnet Method for Jc-Measurement in HTS Thin Film: Influence of Hole to Proportional Relation
IEEE Transactions on Applied Superconductivity Vol. 22 No. 3 -2012 4904804-
- (51) Imagawa S.
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Proceedings of ICEC 24-ICMC 2012 Vol. No. -2013 591-594
- (52) Inoue S., Ono Y., Kaminou Y., Usami S., Ohtani H., Horiuchi R.
Controlled Plasmoid Ejection from Spherical Tokamak Plasmas for the Dynamic Divertor
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- (53) Inoue S., Tokita S., Otani K., Hashida M., Hata M., Sakagami H., Taguchi T., Sakabe S.
Autocorrelation Measurement of Fast Electron Pulses Emitted through the Interaction of Femtosecond Laser Pulses with a Solid Target
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- (54) Isaev M., Watanabe K., Satake S., Nakamura Y., Cooper W.
Bootstrap Current Simulations with Experimental LHD Plasma Density and Temperature Profiles, Energy Scattering and Finite OrbitWidth
Plasma and Fusion Research Vol. 7 No. 1403077 -2012 1403077-1 -7
- (55) Ishizawa A., Waelbroeck F., Fitzpatrick R., Horton W., Nakajima N.
Magnetic island evolution in hot ion plasmas
Physics of Plasmas Vol. 19 No. 7 -2012 072312-1 -13
- (56) Isobe K., Alimov V., Taguchi A., Saito M., Torikai Y., Hatano Y., Yamanishi T.
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Journal of Plasma and Fusion Research SERIES Vol. 10 No. -2013 81-84
- (57) Isobe M., Akiyama T., Tokuzawa T., Tanaka T., Kato D., Sakaue H., Goto T., Miyazawa J., Sagara A.
Plasma Diagnostics Required for a Heliotron-Type DEMO Reactor
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- (58) Ito S., Hashizume H.
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Implicit Function with Natural Behavior over Entire Domain
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2406068-1 -4
- (61) Iwamoto A.
Discussion of Heat Transfer to Liquid Helium on Surface Orientation Dependence
Plasma and Fusion Research Vol. 7 No. Special Issue 1 -2012 2405073-1 -37
- (62) Iwashita S., Nishiyama K., Uchida G., Seo H., Itagaki N., Koga K., Shiratani M.
Dust particle formation due to interaction between graphite and helicon deuterium plasmas
Fusion Engineering and Design Vol. 88 No. 1 -2013 28-32
- (63) Kajita S., Hatae T., Sakuma T., Takamura S., Ohno N., Itami K.
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- (68) Kato D., Sakaue H., Murakami I., Tanaka T., Muroga T., Sagara A.
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- (69) Kawahara T., Emoto M., Hamabe M., Watanabe H., Ivanov Y., Sun J., Yamaguchi S.
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1D Model Study on the Effect of Impurity Radiation Cooling in LHD SOL Plasma
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