

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

- (1) Akata N., Kakiuchi H., Shima N., Iyogi T., Momoshima N., Hisamatsu S.  
Tritium concentrations in the atmospheric environment at Rokkasho, Japan before the final testing of the spent nuclear fuel reprocessing plant  
Journal of Environmental Radioactivity Vol. 102 9 (2011) 837-842
- (2) Akiyama T., Kawahata K., Yasuhara R., Okajima S., Nakayama K.  
Dispersion interferometer for Large Helical Device  
Journal of instrumentation Vol. 7 1 (2012) 01055-1 -9
- (3) Akiyama T., Yasuhara R., Tokuzawa T., Isobe M., Kawahata K., Nakayama K., Okajima S.  
Conceptual Design of Electron Density Measurement System for DEMO-Relevant Helical Plasmas  
Plasma and Fusion Research Vol. 7 Special Issue 1 (2012) 2402013-1 -4
- (4) Aoyagi M., Ito S., Ebara S., Muroga T., Hashizume H.  
Thermo-Fluid Simulation in a Liquid Metal Blanket with Three-Surface- Multi-Layered Channel  
Fusion Science and Technology Vol. 60 1 (2011) 283-287
- (5) Araki K., Miura H.  
Nonlocal Interaction of Inverse Magnetic Energy Transfer in Hall Magnetohydrodynamic Turbulence  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2401132-1 -5
- (6) Asakawa R., Goto M., Sadeghi N., Sasaki K.  
Characteristics of saturation spectroscopy at the Balmer-alpha line of atomic hydrogen in a linear magnetized plasma source  
Journal of instrumentation Vol. 7 (2012) C01018-
- (7) Asakura Y., Suzuki N.  
Planned Operation of Tritium Recovery System Based on Investigation of LHD Exhaust System  
Plasma and Fusion Research Vol. 7 Special Issue 1 (2012) 2405009-1 -4
- (8) Asakura Y., Tanaka M., Ogawa H., Takami S.  
Application of Membrane Dehumidifier for Gaseous Tritium Recovery in the LHD  
Fusion Science and Technology Vol. 60 4 (2011) 1363-1366
- (9) Ashikawa N., Tokitani M., Miyamoto M., Iwakiri H., Yoshida N., Nishiura M., Isobe M., Masuzaki S., Muroga T., Saito K., Seki T., Kumazawa R., Kasahara H., Muto T.  
Characterization of Ion Cyclotron Wall Conditioning Using Material Probes in LHD  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2402138-1 -4
- (10) Banerjee S., Zushi H., Nishino N., Hanada K., Liu H., Ishiguro M., Ryoukai T., Tashima S., Nakamura K., Idei H., Hasegawa M., Fujisawa A.  
Statistical Interpretation of the Density Fluctuations From the High-Speed Visible Images of Edge Turbulence on QUEST  
IEEE Transactions on Plasma Science Vol. 39 11 (2011) 3006-3007
- (11) Bierwage A., Todo Y., Aiba N., Shinohara K., Ishikawa M., Yagi M.  
Nonlinear Hybrid Simulations of Energetic Particle Modes in Realistic Tokamak Flux Surface Geometry  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2403109-1 -5
- (12) Carralero D., Calvo I., Shoji M., Carreras B., Ida K., Ohdachi S., Sakakibara S., Yamada H., Hidalgo C.  
Influence of  $\beta$  on the self-similarity properties of LHD edge fluctuations  
Plasma Physics and Controlled Fusion Vol. 53 9 (2011) 095010-1-10
- (13) Chikaraishi H., Noguchi H.  
Study of low ripple Dc power supply for superconducting coils  
Proceedings of International Conference on Power Electronics 2011 (2011) 2860-2865
- (14) Ding X., Koike F., Murakami I., Kato D., Sakaue H., Dong C., Nakamura N.  
M1 transition energies and probabilities between the multiplets of the ground state of Ag-like ions with  $Z = 47-92$   
Journal of Physics B: Atomic, Molecular and Optical Physics Vol. 45 3 (2012) 035003-1-6
- (15) Ding X., Koike F., Murakami I., Kato D., Sakaue H., Dong C., Nakamura N., Komatsu A., Sakoda J.  
Ab initio multi-configuration Dirac-Fock calculation of M1 visible transitions among the ground state multiplets of the  $W_{26} + \text{ion}$   
Journal of Physics B: Atomic, Molecular and Optical Physics Vol. 44 14 (2011) 145004-1 -6
- (16) Dong C., Morita S., Chowdhuri M., Goto M.  
Survey of EUV impurity line spectra and EUV bremsstrahlung continuum in LHD  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2402078-1 -6

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Study on Radial Position of Impurity Ions in Core and Edge Plasma of LHD Using Space-Resolved EUV Spectrometer  
Plasma Science and Technology Vol. 13 2 (2011) 140-144
- (18) Dong C., Morita S., Goto M., Wang E.  
Absolute intensity calibration of flat-field space-resolved EUV spectrometer using radial profiles of visible and EUV bremsstrahlung continuum in Large Helical Device  
Review of Scientific Instruments Vol. 82 11 (2011) 113102-1 -11
- (19) Dong C., Morita S., Goto M., Wang E., Murakami I., Yamamoto N.  
Accurate determination of iron density in LHD based on absolute intensity profile measurement of EUV spectral lines  
Japanese Journal of Applied Physics Vol. 51 1 (2012)010205-1 -3
- (20) Dong C., Morita S., Kobayashi M., Goto M., Masuzaki S., Morisaki T., Wang E.  
A study on plasma edge boundary in ergodic layer of LHD based on radial profile measurement of impurity line emissions  
Physics of Plasmas Vol. 18 8 (2011)082511-1 -13
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Effect of a magnetic island on the three-dimensional structure of edge radiation and its consequences on detachment in the Large Helical Device (EX-D)  
Nuclear Fusion Vol. 51 7 (2011) 73005
- (22) Emoto M., Funaba H., Nakanishi H., Iwata C., Yoshida M., Nagayama Y.  
Development of portal web pages for the LHD experiment  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2406051-1 -4
- (23) Fujii K., Shikama T., Sawada K., Goto M., Morita S., Hasuo M.  
A Collisional-Radiative Model for Hydrogen Atom Including Velocity Changing Collisions  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2401125-1 -4
- (24) Fujii T., Fukuda S., Emoto M., Osada K., Kawahara T., Hamabe M., Watanabe H., Ivanov Y., Sun J., Yamaguchi S.  
Thermoelectric Property Dependence and Geometry Optimization of Peltier Current Leads Using Highly Electrically Conductive Thermoelectric Materials  
Journal of Electronic Materials Vol. 40 5 (2011) 691-695
- (25) Fujiwara S., Itoh T., Hashimoto M., Tamura Y., Nakamura H., Horiuchi R.  
Molecular Dynamics Simulation of Micellar Shape Change in Amphiphilic Solution  
Plasma and Fusion Research Vol. 6 Special (2011) 2401040-1 -4
- (26) Fukushima J., Kashimura K., Takayama S., Sato M.  
Microwave-energy Distribution for Reduction and Decrystallization of Titanium Oxides  
Chemistry Letters Vol. 41 1 (2012) 39-41
- (27) Goto T., Miyazawa J., Tanaka T., Yanagi N., Sagara A.  
A Robust Design Window for the Heliotron DEMO Reactors  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2405083-1 -4
- (28) Goto T., Suzuki Y., Yanagi N., Watanabe K., Imagawa S., Sagara A.  
Importance of helical pitch parameter in LHD-type heliotron reactor designs  
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- (29) Hanada K., Sasaki K., Zushi H., Nakamura K., Sato K., Sakamoto M., Idei H., Hasegawa M., Kawasaki S., Nakashima H., Higashijima A.  
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Journal of Nuclear Materials Vol. 415 1 (2011) S1123-S1126
- (30) Hara K., Munakata K., Wajima T., Wada K., Takeishi T., Tanaka M., Uda T.  
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Fusion Science and Technology Vol. 60 4 (2011) 1339-1342
- (31) Hasegawa H., Ohno N., Sato T.  
Response of the magnetosphere to microscopic effects in auroral arc formation  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2401128-1 -4
- (32) Hiraki Y., Watanabe T.  
Feedback instability analysis for dipole configuration with ionospheric and magnetospheric cavities  
Journal of Geophysical Research - Space Physics Vol. 116 A11220 (2011) 39457

- (33) Hiratsuka J., Ejiri A., Hasegawa M., Nagashima Y., Takase Y., Tojo H., Yamaguchi T., Ambo T., Kakuda H., Sakamoto T., Shino R., Sonehara M., Wakatsuki T., Watanabe O.  
Development of a Double-pass Thomson Scattering System on the TST-2 Spherical Tokamak  
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- (34) Hirayama N., Endo A., Fujita K., Hasegawa Y., Hatano N., Nakamura H., Shirasaki R., Yonemitsu K.  
Temperature Distribution in Two-Dimensional Electron Gases under a Strong Magnetic Field  
Journal of Electronic Materials Vol. 40 5 (2011) 529-532
- (35) Hirooka Y., Oishi T., Sato H., Tanaka K.  
Aerosol formation and hydrogen co-deposition by colliding ablation plasma plumes of carbon  
Fusion Science and Technology Vol. 60 2 (2011) 804-808
- (36) Horiuchi R.  
Simulation science at the National Institute for Fusion Science  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2101055-1 -5
- (37) Ichiguchi K., Carreras B.  
Multi-Scale MHD Analysis Incorporating Pressure Transport Equation for Beta-Increasing LHD Plasma  
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- (38) Ida K., Dong J., Kikuchi M., Kwon J., Diamond P.  
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Nuclear Fusion Vol. 52 2 (2012) 027001-
- (39) Ido T., Shimizu A., Nishiura M., Nakamura S., Kato S., Nakano H., Yoshimura Y., Toi K., Ida K., Yoshinuma M., Satake S., Watanabe F., Morita S., Goto M., Itoh K., Kubo S., Shimozuma T., Igami H., Takahashi H., Yamada I., Narihara K.  
Potential fluctuation associated with the energetic-particle-induced geodesic acoustic mode in the Large Helical Device  
Nuclear Fusion Vol. 51 (2011) 073046-
- (40) Igami H., Idei H., Kubo S., Yoshimura Y., Shimozuma T., Takahashi H.  
Measurement of the Electron Bernstein Wave Emission with One of the Power Transmission Lines for ECH in LHD  
Plasma Science and Technology Vol. 13 4 (2011) 405-409
- (41) Ignatenko M., Tanaka M.  
Numerical analysis of the microwave heating of compacted copper powders in single-mode cavity  
Japanese Journal of Applied Physics Vol. 50 (2011) 097302-1 -7
- (42) Ikeda K., Nakano H., Tsumori K., Fantz U., Kaneko O., Kasaki M., Nagaoka K., Osakabe M., Takeiri Y.  
Comparison of Optical Emission Spectroscopy and Cavity Ring-Down Spectroscopy in Large-Scaled Negative-Ion Source  
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- (43) Imada S., Hara H., Watanabe T., Murakami I., Harra L., Shimizu T., Zweibel E.  
One-dimensional Modeling for Temperature-dependent Upflow in the Dimming Region Observed by Hinode/EUV Imaging Spectrometer  
The Astrophysical Journal Vol. 743 1 (2011) 57-1-11
- (44) Imada S., Murakami I., Watanabe T., Hara H., Shimizu T.  
Magnetic Reconnection in Non-Equilibrium Ionization Plasma  
The Astrophysical Journal Vol. 742 2 (2011) 70-1-11
- (45) Imagawa S., Yanagi N., Mito T.  
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- (46) Inaoka H., Yukawa S., Ito N.  
Scaling relation and regime map of explosive gas-liquid flow of binary Lennard-Jones particle system  
Physica A: Statistical Mechanics and its Applications Vol. 391 3 (2012) 423-438
- (47) Ishiguro M., Hanada K., Liu H., Zushi H., Yoshida N., Tokunaga T., Nakamura K., Fujisawa A., Idei H., Sakamoto M., Hasegawa M., Tashima S., Takase Y., Maekawa T., Kishimoto Y., Mitarai O., Kawasaki S., Nakashima H., Higashijima A.  
Direct measurement of energetic electron flow in Q-shu University experiment with steady-state spherical tokamak  
Review of Scientific Instruments Vol. 82 11 (2011) 113509-1-6
- (48) Ishizaki R., Nakajima N.  
Magnetohydrodynamic simulation on pellet plasmoid in torus plasmas  
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- (49) Ishizawa A., Watanabe T., Nakajima N.  
Gyrokinetic Simulations of Slab Ion Temperature Gradient Turbulence with Kinetic Electrons  
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- (51) Isoda M., Nakano H., Sakai T.  
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- (52) Itagaki M., Maeda, T., Ishimaru T., Okubo G., Watanabe K., Seki R., Suzuki Y.  
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Plasma Physics and Controlled Fusion Vol. 53 105007 (2011) 39463
- (53) Ito A., Nakajima N.  
Equilibria of Toroidal Plasmas with Toroidal and Poloidal Flow in High-beta Reduced Magnetohydrodynamic Models  
Nuclear Fusion Vol. 51 12 (2011) 123006-1 -11
- (54) Ito S., Hashizume H.  
Investigation of an optimum structure for mechanical butt joint of a stacked HTS cable with a metal jacket  
IEEE Transactions on Applied Superconductivity Vol. 21 3 (2011) 1995-1999
- (55) Itoh T., Saitoh A., Kamitani A., Nakamura H.  
Efficient Evaluation of Influence Coefficients in Three-Dimensional Extended Boundary-Node Method for Potential Problems  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2401106-1 -4
- (56) Iwamoto A., Fujimura T., Sunahara A., Sakagami H., Norimatsu T.  
Mechanical issues of FIREX target under cryogenic environment  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2404070-1 -4
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- (58) Johzaki T., Nagatomo H., Sunahara A., Cai H., Sakagami H., Nakao Y., Mima K.  
Pre-plasma effects on core heating and enhancing heating efficiency by extended double cone for FIREX  
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- (59) Kajita S., Ohno N., Yoshida N., Yoshihara R., Takamura S.  
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Multipoint Spectroscopy Measurement of Spherical Tokamak Heating by Magnetic Reconnection in UTST  
Plasma and Fusion Research Vol. 6 Special Issue 1 (2011) 2402033-1-4
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Numerical Simulation of Shielding Current Density in High-Temperature Superconducting Film: Influence of Film Edge on Permanent Magnet Method  
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- (70) Kanno R., Satake S., Nunami M.  
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- (71) Kasuya N., Nishimura S., Yagi M., Itoh K., Itoh S.  
Heavy Ion Beam Probe Measurement in Turbulence Diagnostic Simulator  
*Plasma Science and Technology* Vol. 13 3 (2011) 326-331
- (72) Kato D., Iwakiri H., Morishita K.  
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- (77) Kawano T.  
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Electron density measurement of cesium seeded negative ion source by surface wave probe  
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