

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

- (1) Akata N., Tanaka M., Kato H., Yamanishi H., Kakiuchi H., Hayashi H., Miyake H., Nishimura K.
Long-term monitoring of tritium concentration in environmental water samples collected at Tono area, Japan
Plasma and Fusion Research 11Regular Issue -2016 1305032
- (2) Akata N., Tanaka M., Takayama S., Kakiuchi H., Tamari T., Sano S.
A New Pretreatment Technique for Environmental Tritium Analysis with Microwave Heating Method
Plasma and Fusion Research 11Special Issue 1 -2016 2405017
- (3) Akiyama T., Yasuhara R., Kawahata K., Nakayama K., Okajima S., Urabe K., Terashima K., Shirai N.
Development of dispersion interferometer for magnetic confinement plasmas and high-pressure plasmas
Journal of Instrumentation 10 -2015 P09022
- (4) Akiyama T., Yasuhara R., Tanaka T., Isobe M., Sakamoto R., Goto T., Kawahata K., Nakayama K., Okajima S., Sagara A.
Conceptual design of high resolution and reliable density measurement system on helical reactor FFHR-d1 and demonstration on LHD
Nuclear Fusion 559 -2015 093032
- (5) Asahi Y., Ishizawa A., Watanabe T., Sugama H., Tsutsui H., Tsuji-Iio S.
Nonlinear Entropy Transfer in ETG-TEM Turbulence via TEM Driven Zonal Flows
Plasma and Fusion Research 10Regular Issue -2015 1403047
- (6) Ashikawa N., Hong S., Hamaji Y., Torikai Y., Ueda Y., Nishimura K.
Structural Analysis of Carbon Co-Deposited Layer in LHD
Journal of Plasma and Fusion Research SERIES 11 -2015 015-018
- (7) Bando T., Ohdachi S., Suzuki Y.
Effects of Neutrons and γ -Rays on Scintillation Light in SX Diagnostics for LHD Deuterium Plasma Experiments
Plasma and Fusion Research 10Regular Issue -2015 1402090
- (8) Bernard E., Khodja H., Pégourié B., Martin C., Pardanaud C., Beurroies I., Chêne J., Giacometti G., Marchetti L., Roubin P., Sakamoto R.
Multi-technique coupling for analysis of deuterium retention in carbon fiber composite NB31
Journal of Materials Science 5021 -2015 7031–7042
- (9) Bernard E., Sakamoto R., Yoshida N., Yamada H.
Temperature impact on W surface exposed to He plasma in LHD and its consequences for the material properties
Journal of Nuclear Materials 463 -2015 316–319
- (10) Cheng C., Inoue S., Ono Y., Horiuchi R.
Physical Processes of Driven Magnetic Reconnection in Collisionless Plasmas: Zero Guide Field Case
Physics of Plasmas 2210 -2015 101205
- (11) Dai S., Liu S., Sun J., Kirschner A., Kawamura G., Tskhakaya D., Ding R., Luo G., Wang D.
Modelling of surface evolution of rough surface on divertor target in fusion devices
Journal of Nuclear Materials 463 -2015 372-376
- (12) Ding X., Liu J., Koike F., Murakami I., Kato D., Sakaue H., Nakamura N., Dong C.
Collisional-Radiative Model for the visible spectrum of W26+ ions
Physics Letters A 3807 -2016 874-877
- (13) Du X., Toi K., Ohdachi S., Osakabe M., Ido T., Tanaka K., Yokoyama M., Yoshinuma M., Ogawa K., Watanabe K., Akiyama T., Isobe M., Nagaoka K., Ozaki T., Sakakibara S., Seki R., Shimizu A., Suzuki Y., Tsuchiya H., LHD Experiment Group .
Resistive Interchange Mode destabilized by Helically Trapped Energetic Ions and its Effects on Energetic Ions and Bulk Plasmas in a Helical Plasma
Nuclear Fusion 561 -2016 016002
- (14) Du X., Toi K., Osakabe M., Ohdachi S., Ido T., Tanaka K., Yokoyama M., Yoshinuma M., Ogawa K., Watanabe K., Isobe M., Nagaoka K., Ozaki T., Sakakibara S., Seki R., Shimizu A., Suzuki Y., Tsuchiya H.
Resistive Interchange Modes Destabilized by Helically Trapped Energetic Ions in a Helical Plasma
Physical Review Letters 11415 -2015 155003
- (15) Ejiri A., Tokuzawa T., Tsujii N., Saito K., Seki T., Kasahara H., Kamio S., Seki R., Mutoh T., Yamada I., Takase Y.
Development of a two channel microwave reflectometer for ICRF Wave Measurement in LHD
Journal of Instrumentation 11 -2016 C02009

- (16) Fu H., Nagasaka T., Kometani N., Muroga T., Guan W., Nogami S., Yabuuchi K., Iwata T., Hasegawa A., Yamazaki M., Kano S., Satoh Y., Abe H., Tanigawa H.
Effect of post-weld heat treatment and neutron irradiation on a dissimilar-metal joint between F82H steel and 316L stainless steel
Fusion Engineering and Design 98-99 -2015 1968-1972
- (17) Fu H., Nagasaka T., Muroga T., Guan W., Nogami S., Hasegawa A., Serizawa H.
Weldability of 9Cr-ODS and JLF-1 steels for dissimilar joining with hot isostatic pressing and electron beam welding
Plasma and Fusion Research 10Special Issue 2 -2015 3405015
- (18) Fu H., Nagasaka T., Muroga T., Guan W., Nogami S., Serizawa H., Geng S., Yabuuchi K., Kimura A.
Plastic deformation behavior and bonding strength of an EBW joint between 9Cr-ODS and JLF-1 estimated by symmetric four-point bend tests combined with FEM analysis
Fusion Engineering and Design 102 -2016 88-93
- (19) Fujii K., Sawada K., Goto M., Morita S., Hasuo M.
Hydrogen atomic and molecular emission locations and intensities in the LHD edge plasma determined from simultaneously observed polarization spectra
Plasma and Fusion Research 10Special Issue 2 -2015 3402041
- (20) Fujioka S., Johzaki T., Arikawa Y., Zhang Z., Alesio M., Ikenouchi T., Ozaki T., Nagai T., Abe Y., Kojima S., Sakata S., Inoue H., Utsugi M., Hattori S., Hosoda T., Lee S., Shigemori K., Hironaka Y., Sunahara A., Sakagami H., Mima K., Fujimoto Y., Yamanoi K., Norimatsu T., Tokita S., Nakata Y., Kawanaka J., Jitsuno T., Miyanaga N., Nakai M., Nishimura H., Shiraga H., Nagatomo H., Azechi H.
Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment
Physical Review E 916 -2015 063102
- (21) Fujita Y., Ikuno S., Kubo S., Nakamura H.
Finite-difference time-domain analysis of electromagnetic wave propagation in corrugated waveguide: Effect of miter bend/polarizer miter bend
Japanese Journal of Applied Physics 551S -2016 01AH06
- (22) Fujiwara S., Miyata T., Hashimoto M., Tamura Y., Nakamura H., Horiuchi R.
Molecular Dynamics Simulation of Phase Behavior in a Bolaamphiphilic Solution
Plasma and Fusion Research 10Special Issue 2 -2015 3401029
- (23) Funaki K., Hochin T., Nomiya H., Nakanishi H.
Evaluation of Parallel Indexing Scheme for Big Data
IEEE Conference Proceedings (by IEEE Xplore) -2015 148-153
- (24) Funaki K., Hochin T., Nomiya H., Nakanishi H.
Parallel Indexing Scheme for Data Intensive Applications
International Journal of Networked and Distributed Computing 32 -2015 89-98
- (25) Furuse H., Yasuhara R., Hiraga K., Zhou S.
High Verdet constant of Ti-doped terbium aluminum garnet (TAG) ceramic
Optical Materials Express 61 -2016 191-196
- (26) Geng S., Tsumori K., Nakano H., Kasaki M., Ikeda K., Osakabe M., Nagaoka K., Takeiri Y., Shibuya M., Kaneko O.
Charged particle flows in the beam extraction region of a negative ion source for NBI
Review of Scientific Instruments 872 -2016 02B103
- (27) Goto T., Miyazawa J., Sakamoto R., Seki R., Suzuki C., Yokoyama M., Satake S., Sagara A., Group F.
Integrated physics analysis of plasma start-up scenario of helical reactor FFHR-d1
Nuclear Fusion 556 -2015 063040
- (28) Hamada Y., Watari T., Nishizawa A., Yamagishi O., Narihara K., Ida K., Kawasumi Y., Ido T., Kojima M., Toi K.
Microtearing mode (MTM) turbulence in JIPPT-IIU tokamak plasmas
Nuclear Fusion 554 -2015 043008
- (29) Hasegawa H., Ishiguro S.
Study of Self-Consistent Particle Flows in a Plasma Blob with Particle-in-Cell Simulations
Physics of Plasmas 2210 -2015 102113-1-102113-8
- (30) Hata M., Sakagami H., Das A.
Kinetic Simulation of Electron Transport using Electron Magnetohydrodynamic Structures
Journal of Physics: Conference Series 6881 -2016 012027

- (31) Hayashi Y., Ohno N., Kajita S., Tanaka H.
Plasma flow in peripheral region of detached plasma in linear plasma device
Physics of Plasmas 23 -2016 012511
- (32) Hirooka Y., Mazzitelli G., Mirnov S., Ono M., Shimada M., Tabares F.
A REVIEW OF THE PRESENT STATUS AND FUTURE PROSPECTS OF THE APPLICATION OF LIQUID METALS FOR PLASMA-FACING COMPONENTS IN MAGNETIC FUSION DEVICES
Fusion Science and Technology 683 -2015 477-483
- (33) Hishinuma Y.
Lecture Note:Evaluation methods and data analysis for mechanical properties of the structural materials of fusion reactors 1.Introduction
Journal of Plasma and Fusion Research 916 -2015 384-385
- (34) Hishinuma Y., Kikuchi A., Taniguchi H., Takagi A., Mizuta T., Mito T., Tachikawa K.
Fabrication and Superconducting Properties of the Bronze Processed Nb₃Sn Multifilamentary Wire Using Cu-Sn-Zn Alloy Matrix
IEEE Transactions on Applied Superconductivity 253 -2015
- (35) Hishinuma Y., Taniguchi H., Kikuchi A.
Investigation of Nb₃Sn multi-filament wire using a Zinn solid- solution bronze matrix
Journal of the Cryogenic Society of Japan 504 -2015 194-201
- (36) Honda M., Satake S., Suzuki Y., Yoshida M., Hayashi N., Kamiya K., Matsuyama A., Shinohara K., Matsunaga G., Nakata M., Ide S., Urano H.
Integrated modelling of toroidal rotation with the 3D non-local drift-kinetic code and boundary models for JT-60U analyses and predictive simulations
Nuclear Fusion 557 -2015 073033
- (37) Hosoda M., Tokonami S., Omori Y., Sahoo S., Akiba S., Sorimachi A., Ishikawa T., Nair R., Jayalekshmi P., Sebastian P., Iwaoka K., Akata N., Kudo H.
Estimation of External Dose by Car-borne Survey in Kerala, India
PLOS ONE -2015 012433
- (38) Huang X., Morita S., Oishi T., Goto M., Zhang H.
Evaluation of Zeff Profile in Low-Density and High-Ti Discharges with Carbon Pellet Injection based on Space-Resolved EUV Spectroscopy in LHD
Plasma and Fusion Research 10Special Issue 2 -2015 3402036
- (39) Ichiguchi K., Sakakibara S., Ohdachi S., Carreras B.
Multi-scale MHD analysis of LHD plasma with background field changing
Nuclear Fusion 554 -2015 043019
- (40) Ichiguchi K., Suzuki Y., Sato M., Todo Y., Nicolas T., Sakakibara S., Ohdachi S., Narushima Y., Carreras B.
Three-dimensional MHD analysis of heliotron plasma with RMP
Nuclear Fusion 557 -2015 073023
- (41) Ida K., Kobayashi T., Evans T., Inagaki S., Austin M., Shafer M., Ohdachi S., Suzuki Y., Itoh S., Itoh K.
Self-regulated oscillation of transport and topology of magnetic islands in toroidal plasmas
Scientific Reports 5 -2015 16165
- (42) Ida K., Nagaoka K., Inagaki S., Kasahara H., Evans T., Yoshinuma M., Kamiya K., Ohdachi S., Osakabe M., Kobayashi M., Sudo S., Itoh K., Akiyama T., Emoto M., Dinklage A., Du X., Fujii K., Goto M., Goto T., Hasuo M., Hidalgo C., Ichiguchi K., Ishizawa A., Jakubowski M., Kawamura G., Kato D., Morita S., Mukai K., Murakami I., Murakami S., Narushima Y., Nunami M., Ohno N., Pablant N., Sakakibara S., Seki T., Shimoizuma T., Shoji M., Tanaka K., Tokuzawa T., Todo Y., Wang H., Yokoyama M., Yamada H., Takeiri Y., Mutoh T., Imagawa S., Mito T., Nagayama Y., Watanabe K., Ashikawa N.,
Overview of transport and MHD stability study: focusing on the impact of magnetic field topology in the Large Helical Device
Nuclear Fusion 5510 -2015 104018
- (43) Ida K., Yoshinuma M., Wieland B., Goto M., Nakamura Y., Kobayashi M., Murakami I., Moon C.
Measurement of radial profiles of density ratio of helium to hydrogen ion using charge exchange spectroscopy with two-wavelength spectrometer
Review of Scientific Instruments 8612 -2015 123514
- (44) Ido T., Itoh K., Osakabe M., Lesur M., Shimizu A., Ogawa K., Toi K., Nishiura M., Kato S., Sasaki M., Ida K., Inagaki S., Itoh S.
Strong Destabilization of Stable Modes with a Half-Frequency Associated with Chirping Geodesic Acoustic Modes in the Large Helical Device
Physical Review Letters 1161 -2016 015002

- (45) Ido T., Osakabe M., Shimizu A., Watari T., Nishiura M., Toi K., Ogawa K., Itoh K., Yamada I., Yasuhara R., Yoshimura Y., Kato S.
Identification of the energetic-particle driven GAM in the LHD
Nuclear Fusion 558 -2015 083024
- (46) Ikeda K., Nakano H., Tsumori K., Kisaki M., Geng S., Nagaoka K., Tokuzawa T., Osakabe M., Takeiri Y., Kaneko O.
Evaluation of Negative Ion Distribution Changes by Image Processing Diagnostic
AIP conference proceedings 1655 -2015 040005
- (47) Ikeda K., Wunderlich D., Fantz U., Heinemann B., Kisaki M., Nagaoka K., Nakano H., Osakabe M., Tsumori K., Geng S., Kaneko O., Takeiri Y.
Installation of Spectrally Selective Imaging System in RF Negative Ion Source
Review of Scientific Instruments 872 -2016 02B113
- (48) Imagawa S., Noguchi H., Obana T., Hamaguchi S., Yanagi N., Mito T.
Effects of Subcooling on Lengths of Propagating Normal Zones in the LHD Helical Coils
IEEE Transactions on Applied Superconductivity 253 -2015 4201805
- (49) Inoue S., Ono Y., Tanabe H., Horiuchi R., Cheng C.
Numerical study of energy conversion mechanism of magnetic reconnection in the presence of high guide field
Nuclear Fusion 558 -2015 083014
- (50) Ishizawa A., Maeyama S., Watanabe T., Sugama H., Nakajima N.
Electromagnetic gyrokinetic simulation of turbulence in torus plasmas
Journal of Plasma Physics 812 -2015 435810203-1-435810203
- (51) Ishizawa A., Watanabe T., Sugama H., Nunami M., Tanaka K., Maeyama S., Nakajima N.
Turbulent transport of heat and particles in a high ion temperature discharge of the Large Helical Device
Nuclear Fusion 554 -2015 043024
- (52) Ito A., Takayama A., Oda Y., Tamura T., Kobayashi R., Hattori T., Ogata S., Ohno N., Kajita S., Yajima M., Noiri Y., Yoshimoto Y., Saito S., Takamura S., Murashima T., Miyamoto M., Nakamura H.
Hybrid simulation research on formation mechanism of tungsten nanostructure induced by helium plasma irradiation
Journal of Nuclear Materials 463 -2015 109-115
- (53) Ito A., Takayama A., Oda Y., Tamura T., Kobayashi R., Hattori T., Ogata S., Ohno N., Kajita S., Yajima M., Noiri Y., Yoshimoto Y., Saito S., Takamura S., Murashima T., Miyamoto M., Nakamura H.
Molecular dynamics and Monte Carlo hybrid simulation for fuzzy tungsten nanostructure formation
Nuclear Fusion 557 -2015 073013
- (54) Ito N., Kuwahara D., Nagayama Y., Yoshikawa M., Kohagura J., Sugito S., Mase A., Kogi Y., Yoshinaga T., Yamaguchi S.
Development of a Multi-Channel Horn Mixer Array for Microwave Imaging Plasma Diagnostics
Plasma and Fusion Research 10Special Issue 2 -2015 3402034-1-4
- (55) Ito S., Oguro H., Tamura H., Yanagi N., Hashizume H.
Fundamental Investigation on Tensile Characteristics of a Mechanical Lap Joint of REBCO Tapes
IEEE Transactions on Applied Superconductivity 253 -2015 4201205
- (56) Ito S., Yusa N., Yanagi N., Tamura H., Sagara A., Hashizume H.
Mechanical and Electrical Characteristics of a Bridge-Type Mechanical Lap Joint of HTS STARS Conductors
IEEE Transactions on Applied Superconductivity 262 -2016 4201510
- (57) Itoh K., Itoh S., Inagaki S., Kasuya N., Fujisawa A.
On the Study of Higher Harmonics of Heat Pulse Propagation in the Modulated-Heating Experiments
Journal of the Physical Society of Japan 851 -2016 014501
- (58) Itoh K., Itoh S., Kamiya K., Kasuya N.
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Plasma Physics and Controlled Fusion 577 -2015 075008
- (59) Itoh K., Kobayashi T., Ido T., Itoh S., Kamiya K.
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Plasma Physics and Controlled Fusion 579 -2015 092001
- (60) Itoh K., Zhao K., Dong J., Itoh S., Fujisawa A., Inagaki S., Sasaki M., Nagashima Y., Kosuga Y., Cheng J., Kobayashi T.
A Calibration of Setting of Mach Probes by Observing GAM Oscillations
Plasma and Fusion Research 11Regular Issue -2016 1402002

- (61) Iwawaki T., Habara H., Yabuuchi T., Hata M., Sakagami H., Tanaka K.
Slowdown mechanisms of ultraintense laser propagation in critical density plasma
Physical Review E 921 -2015 013106
- (62) Johzaki T., Mima K., Fujioka S., Sakagami H., Sunahara A., Nagatomo H., Shiraga H.
Electron beam guiding by strong longitudinal magnetic fields
Journal of Physics: Conference Series 6881 -2016 012041
- (63) Johzaki T., Taguchi T., Sentoku Y., Sunahara A., Nagatomo H., Sakagami H., Mima K., Fujioka S., Shiraga H.
Control of an electron beam using strong magnetic field for efficient core heating in fast ignition
Nuclear Fusion 555 -2015 053022
- (64) Kajita S., Akiyama T., Yoshida N., Tokitani M., Yajima M., Ohno N.
Morphology and Optical Property Changes of Nanostructured Tungsten in LHD
Plasma and Fusion Research 10Regular Issue -2015 1402083
- (65) Kamio S., Kasahara H., Seki T., Saito K., Seki R., Nomura G., Mutoh T., LHD Experiment Group .
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Fusion Engineering and Design 101 -2015 226-230
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Development of gyrotrons for fusion with power exceeding 1 MW over a wide frequency range
Nuclear Fusion 559 -2015 093009
- (67) Kasahara H., Tamura N., Yoshimura Y., Tokitani M., Ueda Y., Sakamoto M., Sakamoto R., Seki T., Saito K., Seki R., Kamio S., Nomura G., Mutoh T.
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NIFS Annual Report -2015
- (68) Kasahara H., Yoshimura Y., Nagasaki K., Tokitani M., Ashikawa N., Ueda Y., Seki T., Saito K., Kumazawa R., Seki R., Kamio S., Nomura G., Kubo S., Shimozuma T., Igami H., Takahashi H., Ito S., Takeiri Y., Yamada H., Kaneko O., Komori A., Mutoh T.
Contributed Papers:New Developments on High-Performance Steady-State Discharge and Plasma Wall Interaction Research Toward a Fusion Reactor
Journal of Plasma and Fusion Research 916 -2015 402-411
- (69) Kasahara H., Yoshimura Y., Tokitani M., Sakamoto R., Ueda Y., Sakamoto M.
Improvement of high-power steady-state operation region
NIFS Annual Report -2015
- (70) Kasuya N., Sugita S., Inagaki S., Itoh K., Yagi M., Itoh S.
Simulation study of hysteresis in the gradient-flux relation in toroidal plasma turbulence
Plasma Physics and Controlled Fusion 574 -2015 044010
- (71) Kato D., Iwakiri H., Watanabe Y., Morishita K., Muroga T.
Super-Saturated Hydrogen Effects on Radiation Damages in Tungsten under High-Flux Divertor Plasma Irradiation
Nuclear Fusion 558 -2015 083019
- (72) Kato D., Sakaue H., Murakami I.
Physics on highly charged ions and its applications: The former and future developments in researches on atomic processes of highly charged ions in fusion and astronomical plasmas
Journal of atomic collision research 126 -2015 161-178
- (73) Kato S., Ito A., Takayama A., Sasao M., Wada M., Nakamura H.
Study of Tritium Desorption by Energetic Ion Bombardment from Tungsten Material
Japanese Journal of Applied Physics 551S -2016 01AH11
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- (75) Kitagawa Y., Mori Y., Komeda O., Ishii K., Hanayama R., Fujita K., Okihara S., Sekine T., Satoh N., Kurita T., Takagi M., Watari T., Kawashima T., Kan H., Nishimura Y., Sunahara A., Sentoku Y., Nakamura N., Kondo T., Fujine M., H A., Motohiro T., Hioki T., Kakeno M., Miura E., Arikawa Y., Nagai T., Abe Y., Ozaki T., Noda A.
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- (77) Kobayashi M., Xu Y., Ida K., Corre Y., Feng Y., Schmitz O., Frerichs H., Tabares F., Evans T., Coenen J., Liang Y., Bader A., Itoh K., Yamada H., Ghendrih P., Ciraolo G., Tafalla D., Lopez-Fraguas A., Guo H., Cui Z., Reiter D., Asakura N., Wenzel U., Morita S., Ohno N., Peterson B., Masuzaki S.
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Nuclear Fusion 5510 -2015 104021
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- (79) Kobayashi T., Itoh K., Ido T., Kamiya K., Itoh S., Miura Y., Nagashima Y., Fujisawa A., Inagaki S., Ida K., Hoshino K.
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Nuclear Fusion 556 -2015 063009
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Journal of Nuclear Materials 463 -2015 1087-1090
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Journal of Applied Physics 1187 -2015 073302
- (83) Masuzaki S.
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Review of Scientific Instruments 869 -2015 093503
- (86) Miura H., Araki K.
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Journal of Plasma and Fusion Research 917 -2015 411-448
- (87) Moon C., Ida K., Tokuzawa T., Tanaka K., Yoshinuma M., Kobayashi T., Inagaki S., Itoh K., LHD Experiment Group .
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Plasma and Fusion Research 10Special Issue 2 -2015 3402053
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Physics of Plasmas 225 -2015 052301
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Fusion Engineering and Design 104 -2016 56–60
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Journal of Nuclear Materials 463 -2015 640–643

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Effect of neutral hydrogen on edge impurity behavior in stochastic magnetic field layer of Large Helical Device
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Preliminary Examination of Reflection Coefficient Measurement of RGB Lights on the First Wall in LHD
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Development of Quantitative Atomic Modeling for Tungsten Transport Study Using LHD Plasma with Tungsten Pellet Injection
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