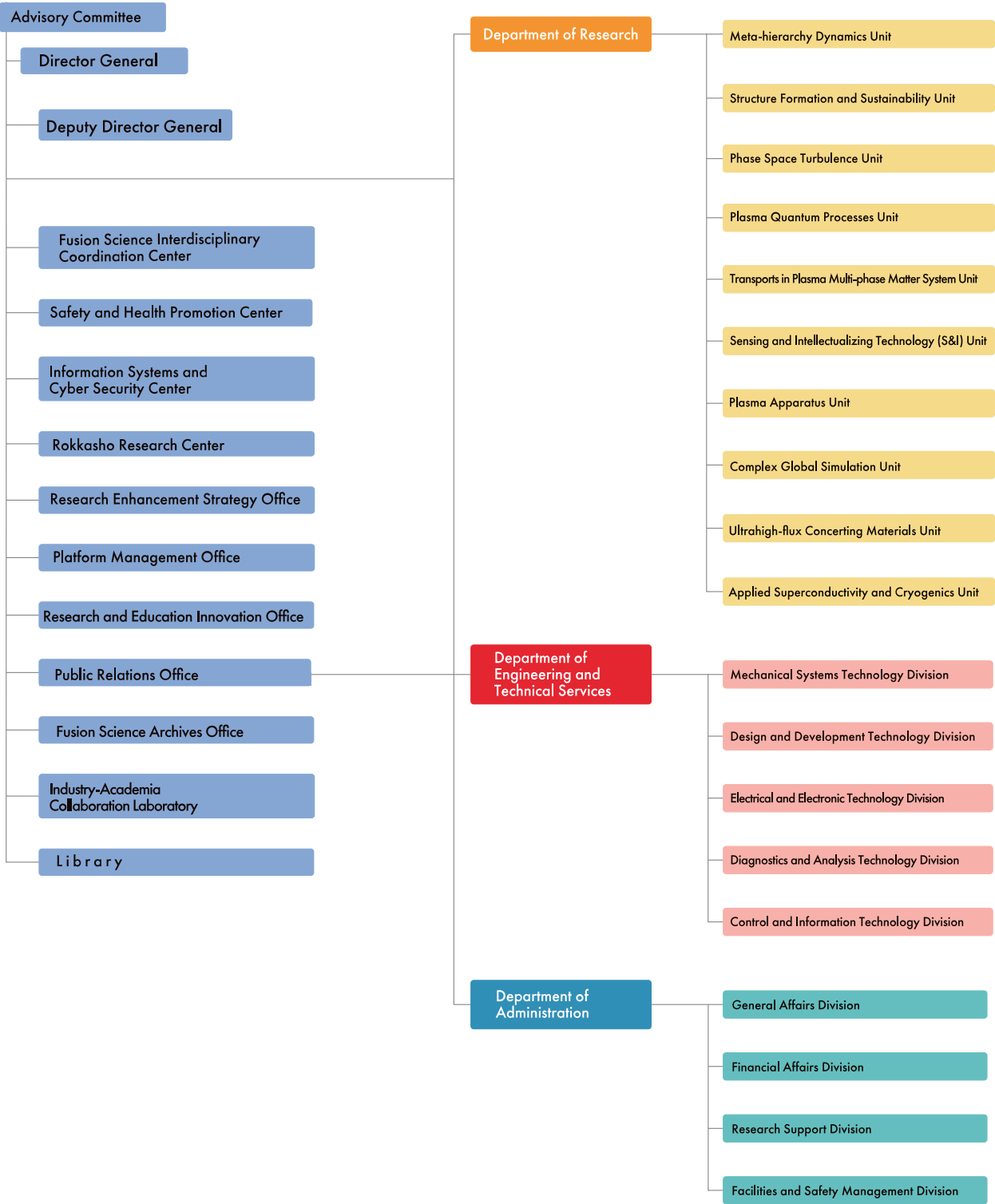


# APPENDIX

## APPENDIX 1. Organization of the Institute

April 2024



## APPENDIX 2. Members of Committees

### Advisory Committee

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| ISHIDA, Shinichi   | Deputy Director<br>National Institute for Quantum Science and Technology                                         |
| UEDA, Yoshio       | Professor<br>Graduate School of Engineering, Osaka University                                                    |
| OZAWA, Tohru       | Professor<br>Faculty of Science and Engineering School of Advanced Science and Engineering,<br>Waseda University |
| KANEKO, Toshiro    | Professor<br>Graduate School of Engineering , Tohoku University                                                  |
| FUJISAWA, Akihide  | Professor<br>Research Institute for Applied Mechanics, Kyushu University                                         |
| FUJITA, Takaaki    | Professor<br>Graduate School of Engineering, Nagoya University                                                   |
| MATSUOKA, Ayako    | Professor<br>Graduate School of Science, Kyoto University                                                        |
| MORII, Takashi     | Director<br>Institute of Advanced Energy, Kyoto University                                                       |
| YAMADA, Hiroshi    | Professor<br>Graduate School of Frontier Sciences, The University of Tokyo                                       |
| YONEDA, Hitoki     | Professor<br>Institute for Laser Science, The University of Electro-Communications                               |
| WATANABE, Tomohiko | Professor<br>Graduate School of Science, Nagoya University                                                       |

※ This list was compiled as of March 31, 2024

## APPENDIX 3. Professor Emeritus

### Professors Emeritus

|                            |                            |
|----------------------------|----------------------------|
| ICHIKAWA, Yoshihiko (1993) | YAMAZAKI, Kozo (2013)      |
| MIZUNO, Yukio (1994)       | KAWAHATA, Kazuo (2013)     |
| FUJITA, Junji (1996)       | OKAMURA, Shoichi (2014)    |
| KURODA, Tsutomu (1997)     | KOMORI, Akio (2015)        |
| AMANO, Tsuneo (1998)       | SUDO, Shigeru (2015)       |
| MOMOTA, Hiromu (1998)      | SKORIC, Milos (2015)       |
| IYOSHI, Atsuo (1999)       | MUTO, Takashi (2016)       |
| HATORI, Tadatsugu (1999)   | NAGAYAMA, Yoshio (2017)    |
| TANAHASHI, Shugo (2000)    | NAKAMURA, Yukio (2017)     |
| KAWAMURA, Takaichi (2000)  | SAGARA, Akio (2017)        |
| SATO, Tetsuya (2001)       | ITOH, Kimitaka (2017)      |
| FUJIWARA, Masami (2002)    | HORIUCHI, Ritoku (2017)    |
| KAMIMURA, Tetsuo (2003)    | HIROOKA, Yoshihiko (2018)  |
| HAMADA, Yasuji (2007)      | MORITA, Shigeru (2019)     |
| KATO, Takako (2007)        | NISHIMURA, Arata (2019)    |
| NODA, Nobuaki (2008)       | TAKEIRI, Yasuhiko (2021)   |
| WATARI, Tetsuo (2008)      | KUBO, Shin (2021)          |
| MOTOJIMA, Osamu (2009)     | MITO, Toshiyuki (2021)     |
| SATOH, Kohnosuke (2010)    | NISHIMURA, Kiyohiko (2021) |
| OHYABU, Nobuyoshi (2010)   | KANEKO, Osamu (2022)       |
| MATSUOKA, Keisuke (2010)   | MURIGA, Takeo (2022)       |
| TOI, Kazuo (2012)          | ISHIGURO, Seiji (2022)     |
| NARIHARA, Kazumichi (2012) | NAKAJIMA, Noriyoshi (2022) |
| KUMAZAWA, Ryuhei (2012)    | SHIMOZUMA, Takeshi (2022)  |
| UDA, Tatsuhiko (2012)      | IDA, Katsumi (2023)        |
| SATO, Motoyasu (2012)      | SAKAGAMI, Hitoshi (2023)   |

※ This list was compiled as of March 31, 2024

## APPENDIX 4. List of Staff

### Director General

YOSHIDA, Zensho

### Deputy Director General

TODO, Yasushi

### Department of Research

Prof. SAKAMOTO, Ryuichi (Director)

### Meta-hierarchy Dynamics Unit

Prof. NUNAMI, Masanori (Chief)

Prof. SAKAMOTO, Ryuichi

Prof. NAGAOKA, Kenichi

Assoc. Prof. IGAMI, Hiroe

Assoc. Prof. ITO, Atsushi

Assoc. Prof. KASAHARA, Hiroshi

Prof. GOTO, Motoshi

Assoc. Prof. SATO, Naoki

Assoc. Prof. SEKI, Tetsuo

Assoc. Prof. TODA, Shinichiro

Assoc. Prof. NAKATA, Motoki

Assoc. Prof. MAEYAMA, Shinya

Assist. Prof. ISHIKAWA, Ryohtaro

Assist. Prof. KAWATE, Tomoko

Assist. Prof. KAWAMURA, Gakushi

Assist. Prof. TAKAYAMA, Arimichi

Assist. Prof. HASEGAWA, Hiroki

Assist. Prof. MATSUOKA, Seikichi

COE Researcher LIN, Keren

COE Researcher YANG, Shudi

Visiting Professor REITER, Detlev

### Structure Formation and Sustainability Unit

Assoc. Prof. YAMAGUCHI, Hiroyuki (Chief)

Prof. ISOBE, Mitsutaka

Prof. ICHIGUCHI, Katsuji

Prof. OSAKABE, Masaki

Assoc. Prof. OGAWA, Kunihiro

Assoc. Prof. SATAKE, Shinsuke

Assoc. Prof. TAKAHASHI, Hiromi

Assist. Prof. ITO, Atsushi

Assist. Prof. KAWAMOTO, Yasuko

Assist. Prof. GOTO, Takuya

Assist. Prof. SHIMIZU, Akihiro

Assist. Prof. NISHIMURA, Shin

Assist. Prof. NUGA, Hideo

### Phase Space Turbulence Unit

Assoc. Prof. KOBAYASHI, Tatsuya (Chief)

Project Prof. IDA, Katsumi

Assoc. Prof. TAMURA, Naoki

Assoc. Prof. TOKUZAWA, Tokihiko

Assoc. Prof. NISHIURA, Masaki

Assoc. Prof. YAMADA, Ichihiko

Assoc. Prof. KENMOCHI, Naoki

Assist. Prof. YANAI, Ryohma

Assist. Prof. YOSHINUMA, Mikio

Project Researcher NASU, Tatsuhiro

### Plasma Quantum Processes Unit

Prof. KATO, Daiji (Chief)

Prof. HOSHI, Takeo

Prof. MURAKAMI, Izumi

Assoc. Prof. IWAMOTO, Akifumi

Assist. Prof. SAKAI, Kentaro

Assist. Prof. SAKAUE, Hiroyuki

Assist. Prof. SUZUKI, Chihiro

Assist. Prof. FUNABA, Hisamichi

Assist. Prof. MUTO, Sadatsugu

Assist. Prof. MORITAKA, Toseo

Assist. Prof. YAMAGISHI, Osamu

Project Researcher GUPTA, Shivam

### **Transports in Plasma Multi-phase Matter System Unit**

Prof. MASUZAKI, Suguru (Chief)  
Prof. NAKAMURA, Hiroaki  
Prof. MORISAKI, Tomohiro  
Assoc. Prof. USAMI, Shunsuke  
Assoc. Prof. KANNO, Ryutaro  
Assoc. Prof. KOBAYASHI, Masahiro  
Assoc. Prof. SHOJI, Mamoru  
Assoc. Prof. TOKITANI, Masayuki

Assoc. Prof. MOTOJIMA, Gen  
Assoc. Prof. YOSHIMURA, Shinji  
Assist. Prof. GOTO, Yuki  
Assist. Prof. HAMAJI, Yukinori  
Assist. Prof. HAYASHI, Yuki  
Assist. Prof. YAJIMA, Miyuki  
Specially Appointed Prof. NAGATA, Daisuke  
Visiting Professor KOVTUN, Yurii

### **S&I: Sensing and Intellectualizing Technology Unit**

Assoc. Prof. UEHARA, Hiyori (Chief)  
Prof. SAKAKIBARA, Satoru  
Prof. TANAKA, Kenji  
Prof. PETERSON, Byron  
Prof. YASUHARA, Ryo  
Prof. YOKOYAMA, Masayuki  
Prof. WATANABE, Kiyomasa  
Assoc. Prof. OHTANI, Hiroaki  
Assoc. Prof. SAZE, Takuya  
Assoc. Prof. TANAKA, Masahiro

Assoc. Prof. NAKANISHI, Hideya  
Assist. Prof. EMOTO, Masahiko  
Assist. Prof. OHTA, Masato  
Assist. Prof. KAWAGUCHI, Haruki  
Assist. Prof. TAKEMURA, Yuki  
Assist. Prof. MUKAI, Kiyofumi  
Research Fellowship SAKAI, Hikona  
Project Researcher ZHAO, Mingzhong  
Project Researcher YU, Linpeng

### **Plasma Apparatus Unit**

Assoc. Prof. NAKANO, Haruhisa (Chief)  
Prof. TSUMORI, Katsuyoshi

### **Complex Global Simulation Unit**

Prof. TOIDA, Mieko (Chief)  
Prof. SUGAMA, Hideo  
Prof. TODO, Yasushi  
Prof. MIURA, Hideaki  
Assoc. Prof. MIZUGUCHI, Naoki  
Assoc. Prof. YAMAMOTO, Takashi  
Assist. Prof. ISHIZAKI, Ryuichi

Assoc. Prof. SATO, Masahiko  
Assist. Prof. SEKI, Ryosuke  
Assist. Prof. WANG, Hao  
Assist. Prof. WANG, Jialei  
COE Researcher WEI, Shizhao  
COE Researcher KANG, Byungjun

### **Ultrahigh-flux Concerting Materials Unit**

Prof. NAGASAKA, Takuya (Chief)  
Assoc. Prof. TAKAYAMA, Sadatsugu  
Assoc. Prof. TANAKA, Teruya  
Assoc. Prof. MUKAI, Keisuke

Assoc. Prof. KOBAYASHI, Makoto  
Assist. Prof. SHEN, Jingjie  
Assist. Prof. NOTO, Hiroyuki

### **Applied Superconductivity and Cryogenics Unit**

Prof. HIRANO, Naoki (Chief)  
Prof. IMAGAWA, Shinsaku  
Prof. TAKAHATA, Kazuya  
Prof. YANAGI, Nagato  
Assoc. Prof. TAMURA, Hitoshi  
Assoc. Prof. CHIKARAISHI, Hirotaka

Assoc. Prof. HAMAGUCHI, Shinji  
Assoc. Prof. HISHINUMA, Yoshimitsu  
Assist. Prof. ONODERA, Yuta  
Assoc. Prof. OBANA, Tetsuhiro  
Assist. Prof. TAKADA, Suguru  
Assist. Prof. NARUSHIMA, Yoshiro

**Fusion Science Interdisciplinary Coordination Center**

Prof. MURAKAMI, Izumi (Director)

**Safety and Health Promotion Center**

Prof. OSAKABE, Masaki (Director)

**Information Systems and Cyber Security Center**

Assoc. Prof. YAMAMOTO, Takashi (Director)

**Rokkasho Research Center**

Prof. YOKOYAMA, Masayuki (Director)

**Research Enhancement Strategy Office**

Prof. YOSHIDA, Zensho (Chief)

Project Professor MITO, Toshiyuki

Project Professor MUROGA, Takeo

Specially Appointed Senior Specialist CARR, Stephen

**Platform Management Office**

Prof. SAKAMOTO, Ryuichi (Chief)

**Research and Education Innovation Office**

Prof. NAGAOKA, Kenichi (Chief)

**Public Relations Office**

Prof. TAKAHATA, Kazuya (Chief)

**Fusion Science Archives Office**

Prof. MURAKAMI, Izumi (Chief)

**Industry-Academia Collaboration Laboratory**

Prof. YASUHARA, Ryo (Chief)

**Library**

Prof. MURAKAMI, Izumi (Chief)

---

※ This list was compiled as of March 31, 2024

**Department of Engineering and Technical Services**

|                                               |                    |          |
|-----------------------------------------------|--------------------|----------|
|                                               | HAYASHI, Hiromi    | Director |
| Mechanical Systems Technology Division        | YOKOTA, Mitsuhiro  | Manager  |
| Design and Development Technology Division    | SUZUKI, Naoyuki    | Manager  |
| Electrical and Electronic Technology Division | KONDO, Tomoki      | Manager  |
| Diagnostics and Analysis Technology Division  | KOBUCHI, Takashi   | Manager  |
| Control and Information Technology Division   | MORIUCHI, Sadatomo | Manager  |

---

※ This list was compiled as of March 31, 2024

**Department of Administration**

|                                           |                     |                                                  |
|-------------------------------------------|---------------------|--------------------------------------------------|
|                                           | IINO, Michiko       | General Manager                                  |
| General Affairs Division                  | ASANO, Masahiro     | Manager                                          |
|                                           | ARAI, Masanori      | Deputy Manager                                   |
|                                           | MATSUBARA, Tomohisa | Senior Specialist                                |
|                                           | SHIMIZU, Kazuma     | Leader/General Affairs Section                   |
|                                           | UESUGI, Kohtaro     | Leader/Planning and Evaluation Section           |
|                                           | INAGAKI, Tomoko     | Leader/Employee Section                          |
|                                           | MURASE, Itaru       | Leader/Personnel and Payroll Section             |
|                                           | HOSOE, Tsunenari    | Leader/Communications and Public Affairs Section |
| Financial Affairs Division                | HIROI, Noriaki      | Manager                                          |
|                                           | OHBA, Ryo           | Deputy Manager                                   |
|                                           | HIBINO, Atsushi     | Leader/Audit Section                             |
|                                           | SUZUKI, Takayuki    | Leader/Financial Planning Section                |
|                                           | KONDO, Takahiko     | Leader/Accounts Section                          |
|                                           | IWASHIMA, Itsuki    | Leader/Procurement Section                       |
| Research Support Division                 | SHOJI, Madoka       | Manager                                          |
|                                           | OHKAWA, Jun         | Deputy Manager                                   |
|                                           | SOGA, Shihoko       | Leader/Research Support Section                  |
|                                           | FUKUOKA, Miwa       | Leader/International Collaboration Section       |
|                                           | KAWAI, Sanae        | Leader/Graduate Student Affairs Section          |
|                                           | OHKAWA, Jun         | Leader/Academic Information Section              |
|                                           | OHKAWA, Jun         | Director/Visitor Center                          |
|                                           | HAYASHI, Tomomi     | Leader/Visitor Center                            |
| Facilities and Safety Management Division | YASUE, Akihito      | Manager                                          |
|                                           | WAKASHIMA, Masahiro | Deputy Manager                                   |
|                                           | IKEDA, Katsumi      | Leader/Facilities Planning Section               |
|                                           |                     | Leader/Facilities Management Section             |

---

※ This list was compiled as of March 31, 2024

## APPENDIX 5. List of Publications I (NIFS Reports)

### **NIFS-DATA-116**

Calculation of electronic excitation cross sections and rate coefficients for boron monohydride (BH)

Tomoko Kawate, Izumi Murakami, Motoshi Goto

Aug. 24, 2023

### **NIFS-MEMO-93**

Overview of tokamak devices in universities in Japan

Study Group on Experimental Research for Advanced Tokamaks

Sep. 1, 2023 (In Japanese)

### **NIFS-MEMO-94**

Report on Administrative Work for Radiation Safety From April 2022 to March 2023

Radiation Control Office / Division of Health and Promotion

National Institute for Fusion Science

Mar. 11, 2024 (In Japanese)

### **NIFS-PROC-126**

NIFS-SWJTU JOINT PROJECT FOR CFQS –PHYSICS AND ENGINEERING DESIGN–

VER. 5.1 2023. AUG.

CFQS Team

National Institute for Fusion Science, National Institutes of Natural Sciences

Institute of Fusion Science, School of Physical Science and Technology,

Southwest Jiaotong University

Hefei Keye Electro Physical Equipment Manufacturing Co. Ltd.

Jan. 26, 2024

※ This list was compiled as of March 31, 2024

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

1. Adulsiriswad P., Todo Y., Sato M., Aiba N., Narita E., Wang H., Idouakass M., Wang J.  
Simulation study of interaction between energetic particles and magnetohydrodynamic modes in the JT-60SA inductive scenario with a flat  $q \approx 1$  profile  
Nuclear Fusion 63 12 126030 -2023
2. Adulsiriswad P., Todo Y., Yamamoto S., Kado S., Kobayashi S., Ohshima S., Okada H., Minami T., Nakamura Y., Ishizawa A., Konoshima S., Mizuuchi T., Nagasaki K.  
Effects of the Resonance Modification by Electron Cyclotron Current Drive on the Linear and Nonlinear Dynamics of Energetic Particle Driven Magnetohydrodynamics Modes in Heliotron J  
Nuclear Fusion 64 1 016036 -2024
3. Akata N., Okada K., Kuwata H., Kheamsiri K., Hosoda M., Tazoe H., Yasuhara R., Sugihara S., Yamada R., Tanaka M.  
Tritium Concentration in Natural Spring Water Collected at Hirosaki, Japan  
Plasma and Fusion Research 18 Special Issue 1 2405030 -2023
4. Anirudh R., Archibald R., Asif S., Becker M., Benkadda S., Bremer P., Budé R., Chang C., Chen L., Churchill R., Citrin J., Gaffney J., Gainaru A., Gekelman W., Gibbs T., Hamaguchi S., Hill C., Humbird K., Jalias S., Kawaguchi S., Kim G., Kirchen M., Klasky S., Kline J., Krushelnick K., Kustowski B., Lapenta G., Li W., Ma T., Mason N., Mesbah A., Michoski C., Munson T., Murakami I., Najm H., Olofsson K., Park S., Peterson L., Probst M., Pugmire D., Sammulu B., Sawlani K., Scheinker A., Schissel D., Shalloo R., Shinagawa J., Seong J., Spears B., Tennyson J., Thiagarajan J., Ticoş C., Trieschmann J., Dijk J., Essen B., Ventzek P., Wang H., Wang J., Wang Z., Wende K., Xu X., Yamada H., Yokoyama T., Zhang X.  
2022 Review of Data-Driven Plasma Science  
IEEE Transactions on Plasma Science 51 7 1750 -2023
5. Emoto M., Ida K., Imazu S., Yoshida M.  
Application of container technology in LHD analysis system  
Fusion Engineering and Design 196 113992 -2023
6. Engrhyt R., Osakabe M., Masaki S., Tsumori K., Nakano H., Nagaoka K., Ikeda K., Takeiri Y.  
New Method to Evaluate Negative-Ion Density Using Conventional Langmuir Probe  
Plasma and Fusion Research 18 Regular Issue 1401020 -2023
7. Engrhyt R., Osakabe M., Tsumori K., Nakano H., Nagaoka K., Ikeda K., Takeiri Y.  
Langmuir-probe measurement through the plasma grid aperture of hydrogen negative ion source  
Journal of Instrumentation 19 C02037 -2024
8. Feng S., Kajita S., Yasuhara R., Tokitani M., Shi Q.  
Formation of corrugated nano-fuzz tungsten thin film on silicon via helium plasma irradiation  
Japanese Journal of Applied Physics 63 1 010904 -2024
9. Feng S., Natsume H., Kajita S., Yasuhara R., Tokitani M., Tanaka H., Ohno N.  
Fabrication of tungsten-based optical diffuser using fiberform nanostructure via efficient plasma route  
Optics Express 31 16 25438-25445 -2023
10. Funaba H., Yasuhara R., Uehara H., Den hartog D., Yanai R., Kenmochi N., Yamada I.  
Improvement of electron temperature and density accuracy in Thomson scattering diagnostics by an accumulation of 100 laser pulses within 5 milliseconds  
Journal of Instrumentation 18 C11015 -2023
11. Goto Y., Garmon S., Petrosky T.  
Enhanced classical radiation damping of electronic cyclotron motion in the vicinity of the Van Hove singularity in a waveguide  
Progress of Theoretical and Experimental Physics 2024 3 033A02 -2024

12. Goya K., Sasanuma H., Ishida G., Uehara H., Tokita S.  
Fusion splicing of plastic optical fibers using a mid-IR fiber laser  
Applied Physics Express 16 5 052006 -2023
13. Gupta S., Oishi T., Murakami I.  
Study of Electron Impact Excitation of Na-like Kr Ion for Impurity Seeding Experiment in Large Helical Device  
Atoms 11 142 142 -2023
14. Hasegawa H., Ishiguro S.  
Analysis of plasma particle orbits in boundary layers with the efficient electrostatic particle-in-cell simulation code  
102-105 -2023
15. Hirano N., Onodera Y., Mito T., Motoki Y., Kawagoe A.  
Basic research on a magnetic refrigeration system for cooling to liquid hydrogen temperature  
IEEE Transactions on Applied Superconductivity 33 5 4702605 -2023
16. Hirao S., Kakiuchi H., Akata N., Tamari T., Sugihara S., Shima N., Tanaka M.  
Assessing the variability of tissue-free water tritium and non-exchangeable organically bound tritium in pine needles in Fukushima using atmospheric titrated water vapor  
Science of the Total Environment 907 168173 -2024
17. Hirooka Y., De Castro A., Goto T., Maingi R., Morgan T., Ono M., Shimada M.  
Conference Report on the 7th International Symposium on Liquid metals Applications for fusion (ISLA-7)  
Nuclear Fusion 63 9 097001(11pp) -2023
18. Hishinuma Y., Kikuchi A., Taniguchi H., Oguro H., Awaji S., Muroga T.  
Improvement of mechanical properties by internal matrix reinforcement in bronze processed Nb<sub>3</sub>Sn wire — Internal matrix reinforcement by solid solution strengthening mechanism —  
低温工学 (Journal of the Cryogenic Society of Japan) 58 3 108-115 -2023
19. Hnin L., Ryosuke N., Noto H., Tanaka T., Chikada T.  
Deuterium permeation and lithium-lead corrosion behaviors of ceramic-iron joint coating  
Surface and Coatings Technology 480 130563 -2024
20. Ida K.  
Isotope effect of transport and key physics in the isotope mixture plasmas  
Reviews of Modern Plasma Physics 7 1 23 -2023
21. Imagawa S., Takahata K.  
Residual magnetic field induced by superconducting magnets of Large Helical Device  
Cryogenics 132 103673 -2023
22. Ishikawa K., Takeda K., Yoshimura S., Kondo T., Tanaka H., Toyokuni S., Nakamura K., Kajiyama H., Mizuno M., Hori M.  
Generation and measurement of low-temperature plasma for cancer therapy: a historical review  
Free Radical Research 57 3 239-270 -2023
23. Ito A., Takayama A., Nakamura H.  
Tungsten Nanostructure Growth by Sputtering and Redeposition in BCA-MD-KMC Hybrid Simulation  
Materials Research Express 10 12 125002 -2023
24. Ito A., Takayama A., Toda Y.  
High Accuracy Interatomic Potential Model for Binary Collision Approximation and Its Application into Sputtering Yield Estimation for Amorphous Carbon  
Japanese Journal of Applied Physics 62 SL SL1012 -2023
25. Ito S., Watanabe K., Takemura Y., Sakakibara S., Masamune S.  
SUPPRESSION OF “EDGE MHD INSTABILITY OF LHD” BY EXTERNAL RMP  
Plasma and Fusion Research 19 Regular Issue 1402001 -2024

26. Ito S., Watanabe K., Takemura Y., Sakakibara S., Masamune S.  
Suppression of resistive interchange instability by external RMP  
Nuclear Fusion 63 6 066016 -2023
27. Kamitani A., Shindo Y., Takayama T., Nakamura H.  
Improved Variable-Reduction Method and Its Variant for Solving Asymmetric EFG-Type Saddle-Point Problem  
Plasma and Fusion Research 18 Special Issue 1 2403039 -2023
28. Kasahara H., Saito K., Seki T., Mutoh T.  
The design of a slit ICRF antenna in EU-DEMO  
Fusion Engineering and Design 189 113453 -2023
29. Kasahara H., Seki T., Saito K., Moseev D., Tsujii N., Nomura G., Kanda M.  
Wave Absorption Profile during ICRF Heating in Mixed Plasma in Large Helical Device  
Plasma and Fusion Research 18 Special Issue 1 2402065 -2023
30. Kawachi Y., Ogawa K., Osakabe M., Kawamoto Y., Isobe M., Ida K.  
Fast-sampling fast-ion D-alpha measurement using multi-anode photomultiplier tube in large helical device  
Review of Scientific Instruments 94 10 103505 -2023
31. Kawaguchi H., Yasuhara R., Yang H., Hori C., Miyagawa R., Sugioka K., Ota M., Uehara H.  
Femtosecond vector vortex laser ablation in tungsten: chiral nano-micro texturing and structuring  
Optical Materials Express 14 2 424-434 -2024
32. Kawate T., Murakami I., Goto M.  
Calculation of electronic excitation cross sections and rate coefficients for boron monohydride (BH)  
Plasma Sources Science and Technology 32 8 085006 -2023
33. Kawate T., Nakano H., Huang Y., Yamasaki D., Ichimoto K., Goto M., Ueno S., Kimura G., Simons J., Kawamoto Y.  
An Inductively Coupled Plasma System for Investigating Spectropolarimetric Responses of Solar Plasmas to Anisotropic Fields  
Plasma and Fusion Research 18 Regular Issue 1401037 -2023
34. Kikuchi G., Ashikawa N., Torikai Y.  
Contributed Paper: Measurement of Residual Tritium in Plasma Facing Wall of Nuclear Fusion Experimental Devices by Hydrothermal Treatment using Autoclave  
プラズマ・核融合学会誌 (Journal of Plasma and Fusion Research) 99 6 296-299 -2023
35. Kimura K., Matsuura H., Itoh C., Kawamoto Y., Oishi T., Goto M., Ogawa K., Nishitani T., Isobe M., Osakabe M.  
Optimization of a fast deuterium diagnostic method based on visible energetic  $^3\text{He}$  spectroscopy for high electron density plasmas  
Review of Scientific Instruments 94 6 063502 -2023
36. Kobayashi M., Hatano Y., Hara M., Oya Y., Yamauchi Y., Otsuka T., Nagasaka T.  
Control and Application of Ultrahigh Hydrogen Flux in Materials  
Plasma and Fusion Research 18 Special Issue 1 2105073 -2023
37. Kobayashi M., Yoshihashi S., Ogawa K., Isobe M., Miwa M., Toyama S., Matsuyama S., Osakabe M.  
Measurement of  $^6\text{Li}$  burn-up reaction rate using a single crystal CVD diamond detector under fast neutron irradiation environment  
Fusion Engineering and Design 193 113799 -2023
38. Kobayashi T.  
Prospect for experimental investigation of phase-space turbulence in magnetically confined fusion plasmas  
Plasma and Fusion Research 18 Special Issue 1 2402059 -2023
39. Kobayashi T., Ishikawa R., Nakata M., Oba T., Katsukawa Y.  
A comparison of velocimetry algorithms: orthogonal dynamic programming based particle image velocimetry versus local correlation tracking

40. Kobayashi T., Yoshinuma M., Hu W., Ida K.  
Phase-space tomography in magnetically confined plasmas  
Physics of Plasmas 30 5 052303 -2023
41. Kono S., Ishikawa M., Sumida S., Yamauchi M., Ito D., Yazawa H., Kurosaki M., Kobuchi T., Ogawa K., Isobe M., Nunoya Y.  
Estimation and Measurement of Alpha Decay Pulses in Fission Detectors and Their Practical Application for Verifying Detector Health  
Plasma and Fusion Research 19 Regular Issue 1405015 -2024
42. Kotani T., Toida M., Moritaka T., Taguchi S.  
Simulation study of the harmonic structure of lower hybrid waves driven by energetic ions  
Physical Review E 108 3 035208 -2023
43. Kovtun Y., Kasahara H., Moiseenko V., Kamio S., Seki T., Saito K., Seki R., Dinklage A., Hartmann D., Laqua H., Stange T., Lazerson S., Alonso A., Wauters T., Kazakov Y., Ongena J., Garkusha I.  
ICRF plasma production at hydrogen minority regime in LHD  
Nuclear Fusion 63 10 106002 -2023
44. Kovtun Y., Moiseenko V., Kamio S., Kasahara H., Seki T., Saito K., Seki R., Lozin A., Pavlichenko O., Shapoval A., Garkusha I., Alonso A., Dinklage A., Hartmann D., Kazakov Y., Laqua H., Ongena J., Stange T., Wauters T.  
ICRF Plasma Production with Hydrogen Minority Heating in Uran-2M and Large Helical Device  
Plasma and Fusion Research 18 Special Issue 1 2402042 -2023
45. Koyama H., Okumura H., Ito A., Nakamura K., Otani T., Kato K., Fujimori T.  
Effective mechanical potential of cell-cell interaction explains three-dimensional morphologies during early embryogenesis  
PLOS Computational Biology 19 e1011306 -2023
46. Le T., Suzuki Y., Hasegawa H., Moritaka T., Ohtani H.  
High Heat Flux Reduction to Materials using Current Filaments  
Scientific Reports 13 8300 -2023
47. Li H., Todo Y., Wang H., Wang J., Idouakass M.  
Waveform distortion of off-axis fishbone instability in the nonlinear magnetohydrodynamic evolution in tokamak plasmas  
Nuclear Fusion 63 8 086012 -2023
48. Li H., Zhang X., Xu Y., Lei G., Liu S., Tsumori K., Nakano H., Osakabe M., Isobe M., Okamura S., Shimizu A., Ogawa K., Takahashi H., Cui Z., Hu J., Zhu Y., Li X., Zheng H., Liu X., Geng S., Chen X., Liu H., Wang X., Liu H., Tang C.  
Effect of metal impurities on the adsorption energy of cesium and work function of the cesiated Mo (001) surface  
Nuclear Materials and Energy 38 101619 -2024
49. Li H., Zhang X., Xu Y., Lei G., Liu S., Tsumori K., Nakano H., Osakabe M., Isobe M., Okamura S., Shimizu A., Ogawa K., Takahashi H., Cui Z., Hu J., Zhu Y., Li X., Zheng H., Liu X., Geng S., Chen X., Liu H., Wang X., Liu H., Tang C.  
Effect of H atoms and O impurities on the adsorption stability and work function of the cesiated Mo(0 0 1) surface: A study about negative hydrogen ion sources for neutral beam injection systems  
Nuclear Materials and Energy 37 101550 -2023
50. Liao L., Ogawa K., Isobe M., Sangaroon S., Kawamoto Y., Zhong G., Fan T.  
The multi-sightline compact D-D neutron spectrometers based on CLYC7-scintillator for beam ion anisotropy study in LHD  
Journal of Instrumentation 19 P03006 -2024
51. Lin K., Goto M., Akatsuka H.  
Improved Line Intensity Analysis of Neutral Helium by Incorporating the Reabsorption Processes in a Helium Collisional-Radiative Model  
Atoms 11 6 94 -2023

52. Liu T., Wang Z., Lai W., Wang J., Reiman A.  
Enhancement of ECCD by the current condensation effect for stabilizing large magnetic islands caused by neoclassical tearing modes in tokamak plasmas  
Nuclear Fusion 64 3 036001 -2024
53. Matsuura H., Ogawa K., Isobe M., Osakabe M., Nishitani T., Kawamoto Y., Sugiyama S., Kimura K., Umezaki D.  
Front Runner: Observation experiment of nuclear elastic scattering effects in LHD deuterium plasma  
プラズマ・核融合学会誌 (Journal of Plasma and Fusion Research) 99 4 120-126 -2023
54. Minagawa H., Yoshimura S., Terasaka K., Aramaki M.  
Enhancement of Doppler spectroscopy to transverse direction by using optical vortex  
Scientific Reports 13 15400 -2023
55. Miura H., Hamba F.  
Numerical simulations of Hall MHD turbulence with magnetization  
Plasma and Fusion Research 18 Special Issue 1 2401022 -2023
56. Miura H., Zheng L., Horton W.  
Non-ideal MHD growth of current interchange tearing modes at plasma edge and response to externally-imposed flow  
Physics of Plasmas 30 5 052503 -2023
57. Morishita Y., Murakami S., Kenmochi N., Funaba H., Yamada I., Mizuno Y., Nagahara K., Nuga H., Seki R., Yokoyama M., Ueno G., Osakabe M.  
First application of data assimilation-based control to fusion plasma  
Scientific Reports 14 137 -2024
58. Muroga T.  
Challenge to Performance Evaluation of Fusion Reactor Materials by Fission Neutron and Charged Particle Irradiation  
Materials Science Forum 1106 95-101 -2023
59. Nagasaka T., Kobayashi M., Tanaka T., Takayama S., Noto H., Shen J., Hinoki T., Yabuuchi K., Tanabe K., Kasada R., Kondo S., Nogami S., Kurita H., Hashimoto N., Yamauchi Y., Oya Y., Chikada T., Hatano Y., Katayama K., Oya M., Oono N., Mori Y.  
Ultrahigh-flux concerting materials  
Plasma and Fusion Research 18 Special Issue 1 2505085 -2023
60. Nagasaka T., Tanaka T., Kobayashi M., Fukumoto K., Toyama T., Sugawara T., Kasada R., Yamauchi Y., Katayama K., Oya M., Yabuuchi K., Sakurai S., Nomura K., Yoshinaga H.  
Ten-year Recycling of Vanadium Alloy in Fusion Reactors  
Materials Science Forum 1106 117-126 -2023
61. Nakamura H., Takasan K., Yajima M., Saito S.  
Molecular Dynamics Simulation on Hydrogen Trapping on Tungsten Vacancy  
Journal of Advanced Simulation in Science and Engineering 10 1 132-143 -2023
62. Nakamura K., Zhang Y., Onchi T., Idei H., Hasegawa M., Tokunaga K., Hanada K., Ido T., Ikezoe R., Chikaraishi H., Mitarai O., Kawasaki S., Higashijima A., Nagata T., Shimabukuro S.  
Quaternion Analysis of Transient Phenomena of Motor-Generator  
Plasma and Fusion Research 18 Special Issue 1 2405035 -2023
63. Narushima Y., Garfias-davalos D., Onodera Y., Hamaguchi S., Chikaraishi H., Yanagi N., Baba T., Miyazawa J.  
Characteristics and causes of voltage observed at the current feeder of high-temperature superconducting WISE conductor  
Journal of Physics: Conference Series 2545 012009 -2023
64. Nespoli F., Tanaka K., Masuzaki S., Ashikawa N., Shoji M., Gilson E., Lunsford R., Oishi T., Ida K., Yoshinuma M., Takemura Y., Kinoshita T., Motojima G., Osakabe M., Kenmochi N., Kawamura G., Suzuki C., Nagy A., Bortolon A., Pablant N., Mollen A., Tamura N., Gates D., Morisaki T.  
A reduced-turbulence regime in the Large Helical Device upon injection of low-Z materials powders  
Nuclear Fusion 63 7 076001 -2023

65. Nishimura A., Hishinuma Y.  
Neutron irradiation effect on superconductivity of Nb<sub>3</sub>Sn wire - 50 Hz data acquisition system -  
Nuclear Materials and Energy 38 101603 -2024
66. Nishimura A., Hishinuma Y., Oguro H., Awaji S.  
Change in Critical Surface of Nb<sub>3</sub>Sn Wire by Neutron Irradiation  
Plasma and Fusion Research 18 Special Issue 1 2405063 -2023
67. Niu G., Kawamura G., Dai S., Xu Q., He T., Nian F., Wang R., Yang Z., Luo G.  
Multiscale particle simulation of the temporal evolution of heat flux into poloidal gaps of castellated divertor with edge-localized modes  
Nuclear Fusion 63 6 066036 -2023
68. Noto H., Hishinuma Y., Muroga T.  
Effect of Ball Diameter on Mechanical Alloying Process for the Production of Dispersion Strengthened Tungsten  
Plasma and Fusion Research 19 Regular Issue 1405011 -2024
69. Nunami M., Ito A., Goto M., Hasegawa H., Igami H., Kasahara H., Kawamura G., Kawate T., Matsuoka S., Nagaoka K., Sakamoto R., Seki T., Takayama A., Toda S.  
Perspective of meta-hierarchy dynamics  
Plasma and Fusion Research 18 Special Issue 1 2501057 -2023
70. Obana T.  
Study on the state prediction of a pool-cooled large superconducting coil using machine learning  
IEEE Transactions on Applied Superconductivity 33 5 4900805 -2023
71. Ogawa K., Sangaroon S., Isobe M.  
Large Volume and Fast Response Gamma Ray Diagnostic in the Large Helical Device  
Plasma and Fusion Research 18 Special Issue 1 2402016 -2023
72. Ogawa K., Sangaroon S., Liao L., Matsuura H., Kimura K., Umezaki D., Naoi M., Fukuda T., Wakisaka S., Isobe M.  
Gamma ray diagnostics for high time resolution measurement in large helical device  
Journal of Instrumentation 18 P09024 -2023
73. Ogawa K., Sangaroon S., Liao L., Takada E., Isobe M.  
Development of a High Sampling Rate Data Acquisition System Working in a High Pulse Count Rate Region for Radiation Diagnostics in Nuclear Fusion Plasma Research  
Electronics 12 18 3898 -2023
74. Oishi T., Morita S., Kobayashi M., Kawamura G., Kawamoto Y., Kawate T., Masuzaki S., Suzuki C., Goto M.  
EUV/VUV Spectroscopy for the Study of Carbon Impurity Transport in Hydrogen and Deuterium Plasmas in the Edge Stochastic Magnetic Field Layer of Large Helical Device  
Plasma 6 2 308-321 -2023
75. Otsubo Y., Yamashita A., Goto Y., Sakai K., Iida T., Yoshimura S., Johzuka K.  
Cellular responses to compound stress induced by atmospheric-pressure plasma in fission yeast  
Journal of Cell Science 136 23 jcs261292 -2023
76. Saito S., Kobashi A., Miura H., Nakamura H., Kenmotsu T., Oya Y., Hatano Y.  
Measurement of DNA length on video of fluorescence microscope by pix2pix trained by molecular dynamics simulation  
Journal of Advanced Simulation in Science and Engineering 10 1 172-181 -2023
77. Sakai H., Tanaka K., Kinoshita T.  
Development of Sweeping Detector Phase Contrast Imaging in Large Helical Device  
Journal of Instrumentation 18 C12019 -2023
78. Sakai H., Tanaka K., Kinoshita T., Ogawa K.  
Observation of Interaction between Fast Ions and Turbulence in Large Helical Device  
Plasma and Fusion Research 18 Special Issue 1 2402069 -2023

79. Sakai H., Tanaka K., Takemura Y., Ito Y., Tokuzawa T., Yasuhara R., Uehara H., Kinoshita T., Akiyama T., Nakayama K., Kawahata K.  
Application of Digital Phase Analysis to Far-Infrared Laser Interferometer for the Large Helical Device  
Plasma and Fusion Research 18 Regular Issue 1402062 -2023
80. Sakamoto R., Bernard E., Kreter A., Martin C.  
Impact of helium and hydrogen plasma exposure on surface damage and erosion of tungsten  
Nuclear Fusion 64 3 036008 -2024
81. Sakamoto R., Nagaoka K., Nagata D., Fujiwara Y., Sato M., Tsumori K.  
Potential Impact of Surface Microstructure Change on Reduction of Emission Current in Tungsten Filament  
Fusion Engineering and Design 199 114144 -2024
82. Sangaroon S., Ogawa K., Isobe M., Liao L., Kobayashi M., Toyama S., Miwa M., Matsuyama S., Yamanishi H., Tamaki S., Murata I., Takada E., Zhong G., Wisitsorasak A., Poolyarat N.  
Characterization of CLYC7 Scintillation Detector in Wide Neutron Energy Range for Fusion Neutron Spectroscopy  
IEEE Transactions on Instrumentation and Measurement 72 1011212 -2023
83. Sangaroon S., Ogawa K., Isobe M., Liao L., Kobayashi M., Zhong G., Toyama S., Miwa M., Matsuyama S., Takada E., Wisitsorasak A., Poolyarat N., Osakabe M.  
Characterization of Liquid Scintillator-Based CNES for Deuterium–Deuterium Neutron Emission Spectroscopy in the LHD  
IEEE Transactions on Instrumentation and Measurement 72 1010710 -2023
84. Sato N., Yamada M.  
An Extended Hasegawa-Mima Equation For Nonlinear Drift Wave Turbulence in General Magnetic Configurations  
Physica D: Nonlinear Phenomena 459 134031 -2024
85. Shen J., Saito K., Tokitani M., Muroga T.  
Effects of annealing temperature on microstructure and hardness of cold rolled high-purity V-4Cr-xTi alloys  
Fusion Engineering and Design 194 113905 -2023
86. Shoji M., Kawamura G., Smirnov R., Tanaka Y.  
Simulation Analysis of Transport of Boron Dust Particles Injected by Impurity Powder Dropper in the Large Helical Device  
Journal of Advanced Simulation in Science and Engineering 11 1 12月20日 -2024
87. Shoji M., Shimizu A., Kinoshita S., Okamura S., Xu Y., Liu H.  
Investigation of the magnetic field configuration for magnetic surface measurements in the CFQS quasi-axisymmetric stellarator  
Plasma and Fusion Research 18 Special Issue 1 2405026 -2023
88. Son B., Matsuura H., Hayashi Y., Nagaoka K., Masuzaki S.  
Application of two-dimensional temperature response functions for reconstruction of divertor heat flux profile in commercial fusion reactors  
Review of Scientific Instruments 95 3 033505 -2024
89. Su P., Lan H., Zhou C., Bao J., Liu A., Zhu X., Wu M., Luo C., Han J., Wang J., Liu H., Zhang T., Zhou R., Lin S., Zhao H., Sun Y., Qiu Z., Chu N., Tang T., Tan Y., Zeng L., Gao Z.  
Bursting core-localized ellipticity-induced Alfvén eigenmodes driven by energetic electrons during EAST ohmic discharges  
Nuclear Fusion 64 3 036019 -2024
90. Takahata K.  
Reduction of Pre-cooling Time by Fluoroplastic Coating -Quenching Experiment with Liquid Nitrogen-  
低温工学 (Journal of the Cryogenic Society of Japan) 58 6 276-280 -2023
91. Takayama T., Saitoh A., Kamitani A., Nakamura H.  
Numerical Investigations on Superconducting Linear Acceleration System by Using Finite Element Method: Influence of Magnet Current on Pellet Velocity  
Plasma and Fusion Research 18 Special Issue 1 2405055 -2023

92. Tanaka M., Iwata C., Nakada M., Kurita S., Kakiuchi H.  
Chromatographic analysis of molecular hydrogen (H<sub>2</sub>) in the atmosphere for understanding atmospheric tritiated hydrogen (HT)  
Plasma and Fusion Research 18 Special Issue 1 2405038 -2023
93. Tanaka M., Kato H., Chimura H., Suzuki N.  
Tritium decontamination in vacuum vessel after deuterium plasma experiment due to air exposure  
Fusion Engineering and Design 192 113628 -2023
94. Tanaka T., Yoshino M., Yajima M., Kato D.  
Study on Photoluminescence Properties of Er<sub>2</sub>O<sub>3</sub> materials as Irradiation Damage and Temperature Sensors  
Nuclear Materials and Energy 38 101614 -2024
95. Terasaka K., Yoshimura S., Minagawa H., Aramaki M.  
Three-dimensional flow velocity determination using laser-induced fluorescence method with asymmetric optical vortex beams  
Scientific Reports 14 2005 -2024
96. Teshigawara M., Takada E., Sumida S., Shinohara K., Nishitani T., Sangaroon S., Liao L., Ogawa K., Isobe M., Matsuyama S., Miwa M., Toyama S., Murata I., Tamaki S., Kusaka S.  
Development of Directional 14 MeV-Fusion Neutron Detector Using Liquid-Scintillator-Filled Capillaries  
Electronics 12 15 3219 -2023
97. Toda S., Nunami M., Kasuya N.  
Research of turbulent transport due to dissipative trapped electron mode in tokamak plasmas  
Physics of Plasmas 31 3 032511 -2024
98. Todo Y., Miura H., Toida M., Ishizaki R., Sato M., Wang H., Seki R., Wang J., Idouakass M., Adulsiriswad P., Mizuguchi N., Yamamoto T., Sugama H.  
Research Plan of Complex Global Simulation Unit  
Plasma and Fusion Research 18 Special Issue 1 2503067 -2023
99. Toi K., Onchi T., Zushi H., Kuroda K., Idei H., Hanada K., Hasegawa M., Kojima S., Ikezoe R., Ido T., Kawasaki S., Higashijima A.  
Effects of toroidally-distributed-divertor biasing on scrape-off-layer (SOL) current drive, divertor particle flux and fast electron confinement in the QUEST spherical tokamak  
Nuclear Fusion 63 10 106018 -2023
100. Tokar M., Kobayashi M.  
Modeling of heating scheme impacts on neon seeded plasmas with the resonant magnetic perturbation application in the large helical device: ECR and NBI heating  
Physics of Plasmas 31 1 012504 -2024
101. Tokitani M., Hamaji Y., Hiraoka Y., Hayashi Y., Masuzaki S., Tamura H., Noto H., Tanaka T., Tsuneyoshi T., Tsuji Y., Motojima G., Hayashi H., Murase T., Muroga T., Sagara A., Morisaki T.  
Plasma wall interaction of new type divertor heat removal component in LHD fabricated by advanced multi-step brazing (AMSB)  
Fusion Science and Technology 79 6 651-661 -2023
102. Torikai Y., Kikuchi G., Owada A., Masuzaki S., Otsuka T., Ashikawa N., Yajima M., Tokitani M., Oya Y., Lee S., Hatano Y., Asakura N., Hayashi T., Oyaidzu M., Likonen J., Widdowson A., Rubel M.  
Overview of tritium retention in divertor tiles and dust particles from the JET tokamak with the ITER-like wall  
Nuclear Fusion 64 1 016032 -2024
103. Umezaki D., Matsuura H., Kimura K., Fukuda T., Ogawa K., Isobe M., Kamio S., Kawamoto Y., Oishi T.  
Study on Knock-on Tail Formation in Deuteron Velocity Distribution Function Due to ICRF-Heated Energetic Proton by Using Neutron Diagnostics in the Large Helical Device  
Plasma and Fusion Research 18 Special Issue 1 2402056 -2023
104. Usami S., Zenitani S.  
Three-dimensional crescent-shaped ion velocity distributions created by magnetic reconnection in the presence of a guide field

105. White R., Ogawa K.  
Alfven mode induced particle loss in LHD  
Physics of Plasmas 30 4 042510 -2023
106. Wisitsorasak A., Shimizu A., Sangaroon S., Ogawa K., Chatthong B., Suksaengpanomrung S., Tamman A., Pooyarat N., Isobe M.  
Feasibility study of a Heavy Ion Beam Probe for the Thailand Tokamak-1  
Fusion Engineering and Design 198 114068 -2024
107. Xu S., Maeyama S., Watanabe T.  
Multi-scale gyrokinetic simulations of JT-60U L-mode plasma: reduction of the ion scale energy loss due to the nonlinear coupling with the electron scale turbulence  
Nuclear Fusion 64 3 036014 -2024
108. Xu S., Maeyama S., Watanabe T., Gurcan O.  
Reversal of the Parallel Drift Frequency in Anomalous Transport of Impurity Ions  
Physical Review Letters 132 10 105101 -2024
109. Xu Y., Wu C., Zhang D., Yang Y., Yao K., Fu Y., Zhang L., Koike F., Kato D., Murakami I., Sakaue H., Dong C., Ding X.  
Theoretical investigation on the spectra of M1 transition of W53+ ion  
Physics Letters A 493 129266 -2024
110. Yabumoto S., Satake S., Yamaguchi H.  
Identification of Magnetic Islands in Optimized Configuration  
Plasma and Fusion Research 18 Regular Issue 1403018 -2023
111. Yanagi N., Narushima Y., Onodera Y., Garfias-dávalos D., Ito S., Terazaki Y., Hamaguchi S., Chikaraishi H., Takada S., Hirano N., Takahata K.  
Stable operation characteristics and perspectives of the large-current HTS STARS conductor  
Journal of Physics: Conference Series 2545 012008 -2023
112. Yanagihara Y., Murase T., Noto H., Ogawa K., Shimizu A., Isobe M., Nagahara K., Tanoue H., Nakagawa S., Hayashi Y., Pham N., Shiozaki T., Sogabe T., Nisoa M.  
New Silica Removal Technique by Vacuum Heating toward High-Performance Cryosorption Pumps Based on Biomass-Based Activated Carbon  
Plasma and Fusion Research 19 Regular Issue 1205012 -2024
113. Yanai R., Takeuchi T., Mizuno Y., Yoshimura Y., Nishiura M., Igami H., Takahashi H., Tsujimura T., Kenmochi N.  
Multi-hole Coupling Power Monitor with Tapered Sub-waveguide for Dual-frequency High-power Gyrotron  
AIP Advances 13 095105 -2023
114. Yatomi G., Nakata M., Sasaki M.  
Data-driven modal analysis of nonlinear quantities in turbulent plasmas using multi-field singular value decomposition  
Plasma Physics and Controlled Fusion 65 9 095014 -2023
115. Yokoyama M., Morishita Y., Murakami S.  
Plausible Model Improvement Utilizing the Information Obtained from Data Assimilation  
Plasma and Fusion Research 19 Regular Issue 1203006 -2024
116. Yoshimura S., Otsubo Y., Yamashita A., Johzuka K., Tsutsumi T., Ishikawa K., Hori M.  
Development of an experimental system for cell viability assays of yeasts using gas-temperature controllable plasma jets  
Japanese Journal of Applied Physics 62 SL SL1011 -2023
117. Zhang J., Zhang Y., Chen W., Cheng S., Ogawa K., He X., Wang Y., Liu Y., Xu M., Isobe M., Zhu Y., Zhan X., Zhou J., Zhang J., Liu L., He X., Li D., Li Y., Guo W., Yu L., Hao G., Li B., Shi Z., Ji X., Zhong W.  
Investigation of energetic ion losses induced by long-lived saturated internal mode with energetic particle diagnostics in the HL-2A tokamak  
Nuclear Fusion 63 8 086014 -2023

118. Zhang Y., Zou X., Dong Y., Bai X., Zhang J., Ogawa K., Gao J., Cheng S., Zhu Y., Li B., Ji X., Liu Y., Shi Z., Zhong W., Xu M.  
Formation of the hot tail seeds for runaway electron generation during disruptions with lower hybrid waves in the HL-2A tokamak  
Physics of Plasmas 30 7 072502 -2023
119. Zhou H., Xu Y., Kobayashi M., Shimizu A., Seki R., Tanaka K., Tokuzawa T., Yoshinuma M., Takemura Y., Takahashi H., Ogawa K., Cheng J., Li W., Wu D., Zhu Y., Luo Y., Li Y., Huang J., Wang X., Liu H., Liu H., Zhang X.  
Isotope effects on transport characteristics of edge and core plasmas heated by neutral beam injection (NBI) in an inward shifted configuration at the Large Helical Device  
Nuclear Fusion 64 3 036023 -2024