List of Publications by Year in descending order

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Ηιροςμι Ισει

#	Article	IF	CITATIONS
1	Initial physics achievements of large helical device experiments. Physics of Plasmas, 1999, 6, 1843-1850.	1.9	176
2	Recent advances in the LHD experiment. Nuclear Fusion, 2003, 43, 1674-1683.	3.5	119
3	Steady-State Operation Scenario and the First Experimental Result on QUEST. Plasma and Fusion Research, 2010, 5, S1007-S1007.	0.7	74
4	Formation of electron internal transport barriers by highly localized electron cyclotron resonance heating in the large helical device. Plasma Physics and Controlled Fusion, 2003, 45, 1183-1192.	2.1	70
5	Coupling of tilting Gaussian beam with hybrid mode in the corrugated waveguide. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 23-41.	0.6	67
6	Dynamic Behavior of Potential in the Plasma Core of the CHS Heliotron/Torsatron. Physical Review Letters, 1997, 79, 1054-1057.	7.8	64
7	5-D simulation study of suprathermal electron transport in non-axisymmetric plasmas. Nuclear Fusion, 2000, 40, 693-700.	3.5	63
8	Steady-state tokamak operation, ITB transition and sustainment and ECCD experiments in TRIAM-1M. Nuclear Fusion, 2005, 45, S142-S156.	3.5	63
9	Discovery of Electric Pulsation in a Toroidal Helical Plasma. Physical Review Letters, 1998, 81, 2256-2259.	7.8	62
10	Formation of electron internal transport barrier and achievement of high ion temperature in Large Helical Device. Physics of Plasmas, 2003, 10, 1788-1795.	1.9	59
11	Radial electric field and transport near the rational surface and the magnetic island in LHD. Nuclear Fusion, 2004, 44, 290-295.	3.5	58
12	Energy Confinement Time and Heat Transport in Initial Neutral Beam Heated Plasmas on the Large Helical Device. Physical Review Letters, 2000, 84, 1216-1219.	7.8	57
13	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. Nuclear Fusion, 2004, 44, 217-225.	3.5	57
14	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. Nuclear Fusion, 2001, 41, 901-908.	3.5	56
15	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
16	Fully non-inductive second harmonic electron cyclotron plasma ramp-up in the QUEST spherical tokamak. Nuclear Fusion, 2017, 57, 126045.	3.5	47
17	Characteristics of transport in electron internal transport barriers and in the vicinity of rational surfaces in the Large Helical Device. Physics of Plasmas, 2004, 11, 2551-2557.	1.9	46
18	RF start-up and sustainment experiments on the TST-2@K spherical tokamak. Nuclear Fusion, 2006, 46, 709-713.	3.5	44

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19	ECRH-Related Technologies for High-Power and Steady-State Operation in LHD. Fusion Science and Technology, 2010, 58, 530-538.	1.1	41
20	Non-inductive current start-up assisted by energetic electrons in Q-shu University experiment with steady-state spherical tokamak. Physics of Plasmas, 2012, 19, 062508.	1.9	41
21	Investigation of hydrogen recycling in long-duration discharges and its modification with a hot wall in the spherical tokamak QUEST. Nuclear Fusion, 2017, 57, 126061.	3.5	37
22	Non-Inductive Start up of QUEST Plasma by RF Power. Plasma Science and Technology, 2011, 13, 307-311.	1.5	36
23	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	3.5	35
24	Heating by an Electron Bernstein Wave in a Spherical Tokamak Plasma via Mode Conversion. Physical Review Letters, 2006, 96, 185003.	7.8	34
25	Extension and characteristics of an ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2005, 47, A81-A90.	2.1	30
26	Role of energetic electrons during current ramp-up and production of high poloidal beta plasma in non-inductive current drive on QUEST. Nuclear Fusion, 2014, 54, 023010.	3.5	29
27	ECH system and its application to long pulse discharge in large helical device. Fusion Engineering and Design, 2001, 53, 525-536.	1.9	28
28	Antenna and transmission system for high power electron cyclotron heating in a compact helical system. Fusion Engineering and Design, 1995, 26, 319-324.	1.9	25
29	Achievement of 10 keV Central Electron Temperatures by ECH in LHD Journal of Plasma and Fusion Research, 2002, 78, 99-100.	0.4	25
30	Formation conditions for electron internal transport barriers in JT-60U plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A35-A43.	2.1	25
31	Transition phenomena and thermal transport properties in LHD plasmas with an electron internal transport barrier. Nuclear Fusion, 2005, 45, 1396-1403.	3.5	25
32	Development of over-MW gyrotrons for fusion at 14 GHz to sub-THz frequencies. Nuclear Fusion, 2017, 57, 066001.	3.5	25
33	Power balance investigation in steady-state LHCD discharges on TRIAM-1M. Fusion Engineering and Design, 2006, 81, 2257-2265.	1.9	23
34	Statistical features of coherent structures at increasing magnetic field pitch investigated using fast imaging in QUEST. Nuclear Fusion, 2012, 52, 123016.	3.5	23
35	Extension of steering angle in a square corrugated waveguide antenna. Fusion Engineering and Design, 2003, 65, 657-672.	1.9	22
36	Steady-state operation using a dipole mode ion cyclotron heating antenna and 77 GHz electron cyclotron heating in the Large Helical Device. Nuclear Fusion, 2013, 53, 063017.	3.5	22

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37	Analysis of PWI footprint traces and material damage on the first walls of the spherical tokamak QUEST. Fusion Engineering and Design, 2012, 87, 77-86.	1.9	20
38	Development of high power gyrotrons for advanced fusion devices. Nuclear Fusion, 2019, 59, 066009.	3.5	20
39	Electron heating of over-dense plasma with dual-frequency electron cyclotron waves in fully non-inductive plasma ramp-up on the QUEST spherical tokamak. Nuclear Fusion, 2020, 60, 016030.	3.5	20
40	Comparison of electron internal transport barriers in the large helical device and JT-60U plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A45-A50.	2.1	19
41	Power Balance Estimation in Long Duration Discharges on QUEST. Plasma Science and Technology, 2016, 18, 1069-1075.	1.5	19
42	Non-inductive plasma current ramp-up through oblique injection of harmonic electron cyclotron waves on the QUEST spherical tokamak. Physics of Plasmas, 2021, 28, .	1.9	19
43	Plasma Current Start-up by ECW and Vertical Field in the TST-2 Spherical Tokamak. Journal of Plasma and Fusion Research, 2004, 80, 549-550.	0.4	18
44	Optimization of incident wave polarization for ECRH in LHD. Plasma Physics and Controlled Fusion, 2005, 47, 531-544.	2.1	18
45	Real time polarization monitor developed for high power electron cyclotron resonance heating and current drive experiments in large helical device. Review of Scientific Instruments, 2005, 76, 023504.	1.3	18
46	Experimental Verification of Phase Retrieval of Quasi-Optical Millimeter-Wave Beams. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3899-3905.	4.6	18
47	Beam Waveguide Reflector with Integrated Direction-Finding Antenna for In-Situ Alignment. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 451-472.	0.6	16
48	Numerical and experimental investigation of a 5-port mitre-bend directional coupler for mode analysis in corrugated waveguides. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 491-504.	2.2	16
49	Development of gyrotrons for fusion with power exceeding 1 MW over a wide frequency range. Nuclear Fusion, 2015, 55, 093009.	3.5	16
50	Electron cyclotron current drive experiments in LHCD plasmas using a remote steering antenna on the TRIAM-1M tokamak. Nuclear Fusion, 2006, 46, 489-499.	3.5	15
51	Particle balance in long duration RF driven plasmas on QUEST. Journal of Nuclear Materials, 2015, 463, 1084-1086.	2.7	15
52	Global gas balance and influence of atomic hydrogen irradiation on the wall inventory in steady-state operation of QUEST tokamak. Journal of Nuclear Materials, 2015, 463, 1087-1090.	2.7	15
53	Initial results from solenoid-free plasma start-up using Transient CHI on QUEST. Plasma Physics and Controlled Fusion, 2018, 60, 115001.	2.1	15
54	Optimization of the high harmonic ECRH scenario to extend a heating plasma parameter range in LHD. Nuclear Fusion, 2015, 55, 063035.	3.5	14

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55	Self organization of high <i>β</i> _p plasma equilibrium with an inboard poloidal magnetic field null in QUEST. Nuclear Fusion, 2015, 55, 083009.	3.5	13
56	Electron cyclotron heating scenario and experimental results in LHD. Fusion Engineering and Design, 2001, 53, 329-336.	1.9	12
57	A study on temperature effects on hydrogen recycling and molybdenum impurity emission from a movable limiter in TRIAM-1M Tokamak. Nuclear Fusion, 2007, 47, 864-874.	3.5	12
58	Handling Technology of Mega-Watt Millimeter-Waves For Optimized Heating of Fusion Plasmas. Journal of Microwave Power and Electromagnetic Energy, 2008, 43, 60-70.	0.8	12
59	Progress Toward Steady-State Operation in LHD Using Electron Cyclotron Waves. Fusion Science and Technology, 2010, 58, 551-559.	1.1	12
60	Development of multi-purpose MW gyrotrons for fusion devices. Nuclear Fusion, 2013, 53, 063003.	3.5	12
61	A Plasma Shape Identification with Magnetic Analysis for the Real-time Control on QUEST. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 477-484.	0.2	12
62	Plasma current start-up experiments without the central solenoid in the TST-2 spherical tokamak. Nuclear Fusion, 2006, 46, S598-S602.	3.5	11
63	ECW/EBW Heating and Current Drive Experiment Results and Prospects for CW Operation in QUEST. Plasma and Fusion Research, 2012, 7, 2402112-2402112.	0.7	11
64	Permeation measurements for investigating atomic hydrogen flux and wall pumping/fuelling dynamics in QUEST. Journal of Nuclear Materials, 2012, 420, 83-93.	2.7	11
65	Current Start-Up Using the New CHI System. Plasma and Fusion Research, 2017, 12, 1202020-1202020.	0.7	11
66	Particle balance investigation with the combination of the hydrogen barrier model and rate equations of hydrogen state in long duration discharges on an all-metal plasma facing wall in QUEST. Nuclear Fusion, 2019, 59, 076007.	3.5	11
67	28-GHz ECHCD system with beam focusing launcher on the QUEST spherical tokamak. Fusion Engineering and Design, 2019, 146, 1149-1152.	1.9	11
68	Review on the Progress of the LHD Experiment. Fusion Science and Technology, 2004, 46, 1-12.	1.1	10
69	Dynamical programming based turbulence velocimetry for fast visible imaging of tokamak plasma. Review of Scientific Instruments, 2015, 86, 033505.	1.3	10
70	Overview of transport and MHD stability study: focusing on the impact of magnetic field topology in the Large Helical Device. Nuclear Fusion, 2015, 55, 104018.	3.5	10
71	Alignment Method of ECH Transmission Lines Based on the Moment and Phase Retrieval Method Using IR Images. Journal of Plasma and Fusion Research, 2005, 81, 191-196.	0.4	10
72	First Demonstration of Rotational Transform Control by Electron Cyclotron Current Drive in Large Helical Device. Plasma and Fusion Research, 2008, 3, S1077-S1077.	0.7	10

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73	The observation of dust behavior in TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 238-241.	2.7	9
74	Fast visible imaging and edge turbulence analysis in QUEST. Review of Scientific Instruments, 2012, 83, 10E524.	1.3	9
75	Recent Upgrading of ECRH System and Studies to Improve ECRH Performance in the LHD. EPJ Web of Conferences, 2015, 87, 02011.	0.3	9
76	Extension of Operation Region for Steady State Operation on QUEST by Integrated Control with Hot Walls. Plasma and Fusion Research, 2021, 16, 2402034-2402034.	0.7	9
77	Active particle control in the CPD compact spherical tokamak by a lithium-gettered rotating drum limiter. Journal of Nuclear Materials, 2009, 390-391, 502-506.	2.7	8
78	Role of stochasticity in turbulence and convective intermittent transport at the scrape off layer of Ohmic plasma in QUEST. Physics of Plasmas, 2014, 21, 072311.	1.9	8
79	Current status and prospect of plasma control system for steady-state operation on QUEST. Fusion Engineering and Design, 2016, 112, 699-702.	1.9	8
80	Modification of plasma control system and hot-wall temperature control system for long-duration plasma sustainment in QUEST. Fusion Engineering and Design, 2018, 129, 202-206.	1.9	8
81	Electron Cyclotron Emission from Optically Thin Plasma in Compact Helical System. Japanese Journal of Applied Physics, 1994, 33, 1543-1549.	1.5	7
82	High harmonic electron cyclotron resonance heating in the Large Helical Device. Nuclear Fusion, 1998, 38, 223-235.	3.5	7
83	Study of magnetic configuration effects on plasma boundary and measurement of edge electron density in the spherical tokamak compact plasma wall interaction experimental device using Li sheet beam. Physics of Plasmas, 2008, 15, 022504.	1.9	7
84	Visualization of Magnetic Surfaces during Current Ramp-Up Phase Using Thermal Lithium Sheet Beam in CPD. Plasma and Fusion Research, 2008, 3, 010-010.	0.7	7
85	Electron Bernstein wave heating by electron cyclotron wave injection from the high-field side in LHD. Nuclear Fusion, 2013, 53, 063004.	3.5	7
86	Thermal imaging of plasma with a phased array antenna in QUEST. Review of Scientific Instruments, 2014, 85, 11E808.	1.3	7
87	Hydrogen flux measurements with permeation probes in spherical tokamak QUEST. Vacuum, 2016, 129, 178-182.	3.5	7
88	Spatial distribution of atomic and ion hydrogen flux and its effect on hydrogen recycling in long duration confined and non-confined plasmas. Nuclear Materials and Energy, 2017, 12, 627-632.	1.3	7
89	Calorimetric measurement of heat load in full non-inductive LHCD plasmas on TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 1425-1428.	2.7	6
90	Two-dimensional density profile measurement with a sheet thermal Li beam on CPD. Journal of Nuclear Materials, 2007, 363-365, 1429-1435.	2.7	6

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91	Improvement of Plasma Core Confinement Via Electron-Root Realization by Strongly Focused ECRH in LHD: Core Electron-Root Confinement. Fusion Science and Technology, 2010, 58, 38-45.	1.1	6
92	Measurement of hydrogen permeation due to atomic flux using permeation probe in the spherical tokamak QUEST. Fusion Engineering and Design, 2010, 85, 950-955.	1.9	6
93	Eddy current-adjusted plasma shape reconstruction by Cauchy condition surface method on QUEST. Fusion Engineering and Design, 2011, 86, 1080-1084.	1.9	6
94	Direct measurement of energetic electron flow in Q-shu University experiment with steady-state spherical tokamak. Review of Scientific Instruments, 2011, 82, 113509.	1.3	6
95	Conceptual Design and Prototype Performance of Phased-array Antenna for EBWH/CD Experiments in QUEST. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 511-516.	0.2	6
96	Comparison between Non-Inductive Plasma Current Start-Up Using ECRH with and without Fundamental Resonance on QUEST. Plasma and Fusion Research, 2015, 10, 3402066-3402066.	0.7	6
97	Conceptual Design of Dual Baseline-Frequency Fast Directional Switch using Square Corrugated Waveguide Splitter/Combiner. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 662-674.	2.2	6
98	Effect of magnetic structure on RF-induced breakdown in QUEST. Physics of Plasmas, 2017, 24, 062513.	1.9	6
99	Overview of spherical tokamak research in Japan. Nuclear Fusion, 2017, 57, 102005.	3.5	6
100	Quasi-Optical Beam Analysis Based on Direct Phase Measurement at Low Power Level. Journal of Plasma and Fusion Research, 2005, 81, 186-190.	0.4	6
101	Mode-Content Analysis and Field Reconstruction of Propagating Waves in Corrugated Waveguides of an ECH System. Plasma and Fusion Research, 2010, 5, S1029-S1029.	0.7	6
102	Long-Pulse Operation and High-Energy Particle Confinement Study in ICRF Heating of LHD. Fusion Science and Technology, 2004, 46, 175-183.	1.1	5
103	Study on wall recycling behaviour in CPD spherical tokamak. Fusion Engineering and Design, 2008, 83, 1114-1119.	1.9	5
104	Active particle control experiments and critical particle flux discriminating between the wall pumping and fuelling in the compact plasma wall interaction device CPD spherical tokamak. Nuclear Fusion, 2009, 49, 055020.	3.5	5
105	Analysis of the footprint traces on the first walls of the compact plasma wall interaction device (CPD) using surface analysis and electron orbit calculations. Nuclear Fusion, 2010, 50, 025017.	3.5	5
106	First Ohmic Discharge Assisted with RF Power in QUEST Spherical Tokamak. Plasma and Fusion Research, 2011, 6, 1402003-1402003.	0.7	5
107	Investigations of the radial propagation of blob-like structure in a non-confined electron cyclotron resonance heated plasma on Q-shu University Experiment with a Steady-State Spherical Tokamak. Physics of Plasmas, 2011, 18, 092306.	1.9	5
108	Adaptive array technique for differential-phase reflectometry in QUEST. Review of Scientific Instruments, 2014, 85, 11D842.	1.3	5

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109	Shape Reconstruction of RF-Driven Divertor Plasma on QUEST. IEEE Transactions on Plasma Science, 2014, 42, 2309-2312.	1.3	5
110	Analytical Solution of High <i>β</i> _p Equilibria with Natural Inboard Poloidal Null Configuration Obtained in the Spherical Tokamak QUEST. Plasma and Fusion Research, 2014, 9, 3402093-3402093.	0.7	5
111	Development of 28 GHz Gyrotron for Cooperative ECH Study. Fusion Science and Technology, 2015, 68, 147-151.	1.1	5
112	Development of a high-performance control system by decentralization with reflective memory on QUEST. Fusion Engineering and Design, 2015, 96-97, 629-632.	1.9	5
113	Optimized design of polarizers with low ohmic loss and any polarization state for the 28 GHz QUEST ECH/ECCD system. Fusion Engineering and Design, 2017, 114, 97-101.	1.9	5
114	High voltage electrical system of 8.56 GHz CW klystron for electron cyclotron heating on QUEST spherical tokamak. Fusion Engineering and Design, 2019, 146, 2567-2570.	1.9	5
115	Estimation of fuel particle balance in steady state operation with hydrogen barrier model. Nuclear Materials and Energy, 2019, 19, 544-549.	1.3	5
116	Quasi-optical polarizer system for ECHCD experiments in the QUEST. Fusion Engineering and Design, 2019, 146, 1437-1440.	1.9	5
117	Modeling of solenoid-free start-up using 2nd harmonic electron cyclotron heating and current drive in QUEST. AIP Conference Proceedings, 2020, , .	0.4	5
118	Overview of coordinated spherical tokamak research in Japan. Nuclear Fusion, 2022, 62, 042011.	3.5	5
119	Evaluation of phase correcting mirrors for an 84GHz gyrotron based on direct phase measurements at low-power level. Fusion Engineering and Design, 2005, 73, 9-18.	1.9	4
120	In situ measurements of erosion and redeposition during long duration discharges on TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 233-237.	2.7	4
121	Mode retrieval from intensity profile measurements using irradiant waveguide-modes. , 2009, , .		4
122	Research of Electron Cyclotron Resonance Heating Methods and Relevant Experiments. Fusion Science and Technology, 2010, 58, 539-550.	1.1	4
123	Study of blob-like structures in QUEST. Journal of Nuclear Materials, 2011, 415, S620-S623.	2.7	4
124	Development of plasma control system for divertor configuration on QUEST. Fusion Engineering and Design, 2013, 88, 1074-1077.	1.9	4
125	Cross-field motion of plasma blob-filaments and related particle flux in an open magnetic field line configuration on QUEST. Journal of Nuclear Materials, 2013, 438, S513-S517.	2.7	4
126	Heat flux and plasma flow in the far scrape-off layer of the inboard poloidal field null configuration in QUEST. Physics of Plasmas, 2015, 22, .	1.9	4

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127	Origin and Evolution of Spontaneous Rotation in Plasma Under Different Magnetic Field Geometries in Tokamak QUEST. IEEE Transactions on Plasma Science, 2016, 44, 441-447.	1.3	4
128	Measurement of thickness of film deposited on the plasma-facing wall in the QUEST tokamak by colorimetry. Review of Scientific Instruments, 2017, 88, 093502.	1.3	4
129	Observation of second harmonic electron cyclotron resonance heating and current-drive transition during non-inductive plasma start-up experiment in QUEST. Plasma Physics and Controlled Fusion, 2021, 63, 105002.	2.1	4
130	Experimental Results for Electron Bernstein Wave Heating in the Large Helical Device. Plasma and Fusion Research, 2012, 7, 2402110-2402110.	0.7	4
131	Towards automated gas leak detection through cluster analysis of mass spectrometer data. Fusion Engineering and Design, 2022, 180, 113199.	1.9	4
132	Surface temperature effects on hydrogen and impurity release from the limiter studied by means of visible and near infrared spectroscopic measurement in TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 938-943.	2.7	3
133	Initial Plasma Production by Townsend Avalanche Breakdown on QUEST Tokamak. Japanese Journal of Applied Physics, 2008, 47, 287-292.	1.5	3
134	In-situ characterization of spurious modes in HE11transmission lines with a 5-port coupler. EPJ Web of Conferences, 2012, 32, 04010.	0.3	3
135	Progress of ECRH by EBW in over-dense plasmas and controlling the confinement regime by ECCD with high power launching in LHD. EPJ Web of Conferences, 2012, 32, 02006.	0.3	3
136	Hâ^žLoop Shaping Control for Plasma Vertical Position Instability on QUEST. Plasma Science and Technology, 2013, 15, 295-299.	1.5	3
137	Investigation of Non-inductive Plasma Current Start-up by RF on QUEST. Journal of Physics: Conference Series, 2014, 511, 012041.	0.4	3
138	Response of the far scrape-off layer plasma to strong gas puffing in the high poloidal beta configuration of the QUEST spherical tokamak. Plasma Physics and Controlled Fusion, 2016, 58, 115004.	2.1	3
139	Comparison between Full Wave and Ray-Tracing Calculations to Examine Scenarios for Electron Bernstein Wave Heating in LHD. Plasma and Fusion Research, 2016, 11, 2403098-2403098.	0.7	3
140	Spectroscopic Measurements of Impurity Ion Toroidal and Poloidal Flow Velocities and Their Dependence on Vertical Magnetic Field in QUEST Toroidal ECR Plasmas. Plasma and Fusion Research, 2018, 13, 3402087-3402087.	0.7	3
141	HFS Injection of X-Mode for EBW Conversion in QUEST. Plasma and Fusion Research, 2019, 14, 1205038-1205038.	0.7	3
142	Toroidal flow measurements of impurity ions in QUEST ECH plasmas using multiple viewing chords emission spectroscopy. Nuclear Materials and Energy, 2021, 26, 100905.	1.3	3
143	Overview of recent progress on steady state operation of all-metal plasma facing wall device QUEST. Nuclear Materials and Energy, 2021, 27, 101013.	1.3	3
144	Modeling of OXB Mode Conversion Scenario for EBWH/CD Experiments in QUEST. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 505-510.	0.2	3

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145	Measurement of Blob-Like Structures in Plasma with a Langmuir Probe and Fast Camera on QUEST. Plasma and Fusion Research, 2010, 5, S2077-S2077.	0.7	3
146	Development of Full D-Band Corrugated Horn Antenna for ECRH System. Plasma and Fusion Research, 2013, 8, 1405163-1405163.	0.7	3
147	Mode content analysis in circular corrugated waveguide using radiated field. , 2007, , .		2
148	Control system and the controllability of CPD and QUEST. Fusion Engineering and Design, 2008, 83, 236-240.	1.9	2
149	Two Dimensional Density Fluctuation Measurements During the Non-Inductive Current Ramp-up Phase in the Compact Plasma Wall Interaction Experimental Device CPD. Plasma Science and Technology, 2009, 11, 397-401.	1.5	2
150	Progress of a multi-megawatt gyrotron system for Electron Cyclotron heating on the Large Helical Device. , 2010, , .		2
151	Electron Cyclotron â^• Bernstein Wave Heating and Current Drive Experiments using Phased-array Antenna in QUEST. AlP Conference Proceedings, 2011, , .	0.4	2
152	Metallic dusts behavior in all-metal first wall on TRIAM-1M. Journal of Nuclear Materials, 2011, 415, S1123-S1126.	2.7	2
153	Development of a plasma control system for steady-state operation on QUEST. Journal of the Korean Physical Society, 2014, 65, 1191-1195.	0.7	2
154	Adaptive-array Electron Cyclotron Emission diagnostics using data streaming in a Software Defined Radio system. Journal of Instrumentation, 2016, 11, C04010-C04010.	1.2	2
155	Multiple wall-reflection effect in adaptive-array differential-phase reflectometry on QUEST. Journal of Instrumentation, 2016, 11, C01014-C01014.	1.2	2
156	Comparison of current density profiles based on particle orbit-driven current in steady-state plasma on QUEST. Fusion Engineering and Design, 2016, 109-111, 1624-1630.	1.9	2
157	Comparative studies of inner and outer divertor discharges and a fueling study in QUEST. Fusion Engineering and Design, 2016, 109-111, 1365-1370.	1.9	2
158	Effect of magnetic shear on edge turbulence in SOL-like open field line configuration in QUEST. Plasma Physics and Controlled Fusion, 2018, 60, 085014.	2.1	2
159	Spectroscopic Measurement of Hydrogen Atom Density in a Plasma Produced with 28 GHz ECH in QUEST. Atoms, 2020, 8, 44.	1.6	2
160	Quaternion Analysis of a Direct Matrix Converter Based on Space-Vector Modulation. Plasma and Fusion Research, 2021, 16, 2405037-2405037.	0.7	2
161	Initial Results from High-Field-Side Transient CHI Start-Up on QUEST. Plasma and Fusion Research, 2021, 16, 2402048-2402048.	0.7	2
162	Designing an upgrade of ohmic heating system for the QUEST spherical tokamak. Fusion Engineering and Design, 2021, 168, 112362.	1.9	2

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163	QUEST Experiments Towards Steady State Operation of Spherical Tokamaks. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 490-498.	0.2	2
164	Parametric Decay Wave Observation in HFS X-Mode Injection in QUEST. Plasma and Fusion Research, 2020, 15, 2402063-2402063.	0.7	2
165	Two Dimensional Li Beam Imaging to Study the Magnetic Field Configuration Effects on Plasma Confinement in Spherical Tokamak CPD. Plasma and Fusion Research, 2007, 2, S1103-S1103.	0.7	2
166	Reconstruction of Vacuum Magnetic Flux in QUEST. Plasma and Fusion Research, 2010, 5, S2083-S2083.	0.7	2
167	Study of Matrix Converter as a Current-Controlled Power Supply in QUEST Tokamak. Plasma and Fusion Research, 2011, 6, 2405137-2405137.	0.7	2
168	High Harmonic ECH Experiment for Extension of Heating Parameter Regime in LHD. Plasma and Fusion Research, 2013, 8, 2402073-2402073.	0.7	2
169	Physical Design and Future Plan of QUEST. IEEJ Transactions on Fundamentals and Materials, 2009, 129, 589-594.	0.2	2
170	Beam alignment of ECH transmission line using moment method. , 0, , .		1
171	Surface Temperature Dependence of Hydrogen Balmar and Molybdenum Neutral Lines from the Mo Limiter in TRIAM-1M. , 2005, , .		1
172	Magnetic sensorless control experiment without drift problem on HT-7. Fusion Engineering and Design, 2006, 81, 1607-1612.	1.9	1
173	Continuous and real-time data acquisition system for superconducting tokamaks HT-7 and TRIAM-1M. Fusion Engineering and Design, 2006, 81, 1621-1626.	1.9	1
174	Electron Cyclotron Counter Current Drive Experiments in Lower Hybrid Current Drive Plasma in TRIAM-1M. Fusion Science and Technology, 2007, 52, 240-249.	1.1	1
175	Initial results of AM reflectometory on CPD. , 2007, , .		1
176	Difference in oxygen impurity behavior between repetitive short discharges and one long discharge on TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 1364-1368.	2.7	1
177	High accessible experimental information on CPD experiment. Fusion Engineering and Design, 2008, 83, 402-405.	1.9	1
178	A WEB-based integrated data processing system for the TRIAM-1M. Fusion Engineering and Design, 2008, 83, 588-593.	1.9	1
179	Effects of magnetic field and target plasma on the penetration behaviour of compact toroid plasma by heat load measurements in CPD. Nuclear Fusion, 2008, 48, 105001.	3.5	1
180	Propagating mode analysis and field reconstruction in the corrugated waveguides of a high power electron cyclotron heating system. , 2008, , .		1

#	Article	IF	CITATIONS
181	Development of an analysis method on the mode conversion process between electromagnetic and electron Bernstein waves in real experimental configurations. , 2009, , .		1
182	Activities on Realization of High-Power and Steady-State ECRH System and Achievement of High Performance Plasmas in LHD. , 2009, , .		1
183	Statistical Interpretation of the Density Fluctuations From the High-Speed Visible Images of Edge Turbulence on QUEST. IEEE Transactions on Plasma Science, 2011, 39, 3006-3007.	1.3	1
184	Quasi-Optical High Purity HE ₁₁ -Mode Exciter for Oversized Corrugated Waveguide Transmission. Plasma and Fusion Research, 2012, 7, 2405037-2405037.	0.7	1
185	Shape reconstruction of RF-driven divertor plasma on QUEST. , 2013, , .		1
186	Non-Inductive Current Drive by EC Waves in an Inboard Poloidal Magnetic Field Null Configuration on the Spherical Tokamak QUEST. Plasma and Fusion Research, 2013, 8, 2402118-2402118.	0.7	1
187	Electron Bernstein wave heating and emission measurement through the very narrow O-X-B mode conversion window in the LHD. , 2014, , .		1
188	Corrugated Waveguide Mode Content Analysis Using Irradiance Moments. IEEE Transactions on Plasma Science, 2014, 42, 3358-3364.	1.3	1
189	Observation of heat flux and plasma flow in scrape off layer in QUEST. Journal of Nuclear Materials, 2015, 463, 428-431.	2.7	1
190	Current density calculation from particle orbit in RF-driven divertor plasma on QUEST. , 2015, , .		1
191	Highβpplasma formation using off-axis ECCD in Ohmic heated plasma in the spherical tokamak QUEST. EPJ Web of Conferences, 2015, 87, 02012.	0.3	1
192	Research and Development of 2-frequency (110/138 GHz) FADIS for JT-60SA ECHCD system. EPJ Web of Conferences, 2015, 87, 04009.	0.3	1
193	Development of 28/35â€GHz dual-frequency gyrotron for ECH study. AIP Conference Proceedings, 2016, , .	0.4	1
194	Guiding Center Orbit Calculation for Evaluating the Current Density Distributions of the Electrons in Electron Cyclotron Heating on QUEST. IEEE Transactions on Plasma Science, 2016, 44, 1666-1671.	1.3	1
195	Kinetic Full Wave Analysis of Electron Cyclotron Wave Mode Conversion in Tokamak Plasmas. Plasma and Fusion Research, 2016, 11, 2403070-2403070.	0.7	1
196	Analysis of plasma equilibrium based on orbit-driven current density profile in steady-state plasma on QUEST. Fusion Engineering and Design, 2016, 109-111, 1528-1533.	1.9	1
197	Electron Bernstein wave detection by sub-Tera-Hz scattering in the QUEST. , 2018, , .		1
198	Electron Bernstein wave conversion of high-field side injected X-modes in QUEST. Plasma Physics and Controlled Fusion, 2020, 62, 035018.	2.1	1

0

#	Article	IF	CITATIONS
199	Investigation of radial distribution of atomic hydrogen flux to the plasma facing components in steady state discharges in QUEST tokamak. Nuclear Materials and Energy, 2021, 26, 100872.	1.3	1
200	MHD Equilibrium Reconstruction Using the Visible Light Tomographic Method with Laplacian Eigenfunction. Plasma and Fusion Research, 2021, 16, 2402090-2402090.	0.7	1
201	Fast Tangentially Viewed Soft X-Ray Imaging System Based on Image Intensifier with Microchannel Plate Detector on QUEST. Plasma and Fusion Research, 2019, 14, 1402128-1402128.	0.7	1
202	Measurement of Dynamic Retention with Fast Ejecting System of Targeted Sample (FESTA). Plasma and Fusion Research, 2020, 15, 2402013-2402013.	0.7	1
203	Plasma Shape Reconstruction of Spherical Tokamak using CCS Method. Plasma and Fusion Research, 2007, 2, S1095-S1095.	0.7	1
204	Turbulence Velocimetry of Tangential Fast Imaging Data on QUEST. Plasma and Fusion Research, 2013, 8, 2402098-2402098.	0.7	1
205	Quaternion Analysis of Transient Phenomena in Matrix Converter Based on Space-Vector Modulation. Plasma and Fusion Research, 2022, 17, 2405025-2405025.	0.7	1
206	Magnetic Sensorless Control of Plasma Position and Shape in a Tokamak. Plasma Science and Technology, 2006, 8, 80-83.	1.5	0
207	Integrated Gas Flow Simulation for Overall Optimization of GCB. , 2006, , .		0
208	Wide-Band Heterodyne-Radiometer with Fast Frequency-Switching Local Oscillator for Electron Cyclotron Emission Diagnostics. , 2006, , .		0
209	Design of phased array antenna system for electron Bernstein wave heating and current drive in QUEST. , 2007, , .		0
210	Model of Inductive Plasma Production Assisted by Radio-Frequency Wave in Tokamaks. Journal of the Physical Society of Japan, 2007, 76, 084501.	1.6	0
211	Broadband radiometer system with fast frequency switching synthesizer for electron cyclotron emission measurements in LHD. , 2007, , .		0
212	Townsend Avalanche Breakdown Assisted by Radio Frequency Wave in Tokamaks. Plasma and Fusion Research, 2007, 2, 007-007.	0.7	0
213	Relation between charge exchange flux and impurity influx studied by perturbation methods of gas puffing, heat load and confinement properties in TRIAM-1M. Journal of Nuclear Materials, 2007, 363-365, 1386-1394.	2.7	0
214	The current control of steady-state plasma in TRIAM-1M and HT-7. Fusion Engineering and Design, 2008, 83, 211-214.	1.9	0
215	Single-side-band heterodyne differential-phase reflectometry in QUEST. , 2009, , .		0

Phased-array antenna for electron bernstein wave heating and current drive in QUEST. , 2009, , .

#	Article	IF	CITATIONS
217	Development of CW phased-array antenna system for electron Bernstein Heating and Current Drive experiments in QUEST. , 2010, , .		0
218	Quasi-Optical HE <inf>11</inf> -mode exciter for coupling into oversized circular corrugated waveguide. , 2010, , .		0
219	Electron Bernstein wave Emission diagnostics using phased-array antenna system in QUEST. , 2010, , .		0
220	Differential-phase reflectometry using phased-array antenna system in QUEST. , 2010, , .		0
221	Development of CW 16-element phased-array antenna for electron bernstein wave heating and current drive experiments in QUEST. , 2011, , .		0
222	Hydrogen Permeation Measurements in the Spherical Tokamak QUEST and Its Numerical Modeling. Fusion Science and Technology, 2011, 60, 1511-1514.	1.1	0
223	Measurement of the Electron Bernstein Wave Emission with One of the Power Transmission Lines for ECH in LHD. Plasma Science and Technology, 2011, 13, 405-409.	1.5	0
224	In-situ real-time characterization of spurious modes in HE <inf>11</inf> transmission lines with a mitrebend hole coupler. , 2013, , .		0
225	Scrape Off Layer Flow Characteristics in the Spherical Tokamak QUEST. , 2014, , .		0
226	Determination of waveguide mode content using irradiance moments. , 2014, , .		0
227	Observation of an edge coherent mode and poloidal flow in the electron cyclotron wave induced high βp plasma in QUEST. Physics of Plasmas, 2016, 23, 082507.	1.9	0
228	Plasma equilibrium based on RF-driven current profile without assuming nested magnetic surfaces on QUEST. Fusion Engineering and Design, 2017, 123, 532-534.	1.9	0
229	Plasma equilibrium based on EC-driven current profile with toroidal rotation on QUEST. Fusion Engineering and Design, 2019, 146, 2628-2631.	1.9	0
230	Prototype of a Quasi-Optical Launcher System of a 4 mm Round-Trip Interferometer for the QUEST Spherical Tokamak Experiments. Plasma and Fusion Research, 2019, 14, 3402122-3402122.	0.7	0
231	Current Profile Estimation in Full LHCD Plasmas using Hard X-Ray Measurement along the Top and Bottom Identical Line of Sight on TRIAM-1M. Plasma and Fusion Research, 2007, 2, S1071-S1071.	0.7	0
232	Plasma-Wall Interaction Study towards the Steady State Operation. Plasma and Fusion Research, 2010, 5, S2009-S2009.	0.7	0
233	Statistical Analysis of the Convective Intermittent Transport at the Edge Region of QUEST. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 545-554.	0.2	0
234	Prototype Phased-Array Patch Loop Antennae for Electron Cyclotron Emission Diagnostics. Plasma and Fusion Research, 2019, 14, 3402111-3402111.	0.7	0

#	Article	IF	CITATIONS
235	Developments of Millimeter and Sub-Millimeter Wave Backscattering Systems for Fusion Plasma Turbulence Diagnostics. , 2020, , .		0