

Masayuki Ono

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2322538/publications.pdf>

Version: 2024-02-01

118
papers

2,760
citations

186265

28
h-index

189892

50
g-index

119
all docs

119
docs citations

119
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploration of spherical torus physics in the NSTX device. Nuclear Fusion, 2000, 40, 557-561.	3.5	363
2	Overview of the physics and engineering design of NSTX upgrade. Nuclear Fusion, 2012, 52, 083015.	3.5	177
3	The effect of lithium surface coatings on plasma performance in the National Spherical Torus Experiment. Physics of Plasmas, 2008, 15, .	1.9	153
4	Ion Bernstein wave heating research. Physics of Fluids B, 1993, 5, 241-280.	1.7	104
5	High harmonic fast waves in high beta plasmas. Physics of Plasmas, 1995, 2, 4075-4082.	1.9	102
6	Physics Design of the National Spherical Torus Experiment. Fusion Science and Technology, 1999, 36, 16-37.	0.6	85
7	Investigation of the formation of a fully pressure-driven tokamak*. Physics of Plasmas, 1994, 1, 1568-1575.	1.9	81
8	NSTX plasma operation with a Liquid Lithium Divertor. Fusion Engineering and Design, 2012, 87, 1724-1731.	1.9	72
9	Internally generated currents in a small-aspect-ratio tokamak geometry. Physical Review Letters, 1992, 68, 3559-3562.	7.8	70
10	Active core profile and transport modification by application of ion Bernstein wave power in the Princeton Beta Experiment Modification. Physics of Plasmas, 1995, 2, 741-751.	1.9	70
11	Direct Observation of Ion-Bernstein-Wave-Induced Poloidal Flow in TFTR. Physical Review Letters, 1999, 82, 331-334.	7.8	66
12	Non-inductive current generation in NSTX using coaxial helicity injection. Nuclear Fusion, 2001, 41, 1081-1086.	3.5	66
13	Control of plasma shape and performance of the PBX tokamak experiment in high β_t / high β_p regimes. Physics of Fluids B, 1990, 2, 1271-1279.	1.7	65
14	Beta-limiting instabilities and global mode stabilization in the National Spherical Torus Experiment. Physics of Plasmas, 2002, 9, 2085-2092.	1.9	65
15	ACT: A steady-state torus for basic plasma physics research. Review of Scientific Instruments, 1982, 53, 409-416.	1.3	58
16	Current Generation by Unidirectional Lower Hybrid Waves in the ACT-1 Toroidal Device. Physical Review Letters, 1980, 45, 117-120.	7.8	57
17	Detection of surface glow related to spacecraft glow phenomena. Geophysical Research Letters, 1986, 13, 377-380.	4.0	52
18	Overview of the initial NSTX experimental results. Nuclear Fusion, 2001, 41, 1435-1447.	3.5	49

#	ARTICLE	IF	CITATIONS
19	Initial physics results from the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2001, 8, 1977-1987.	1.9	46
20	Efficient Generation of Closed Magnetic Flux Surfaces in a Large Spherical Tokamak Using Coaxial Helicity Injection. <i>Physical Review Letters</i> , 2006, 97, 175002.	7.8	45
21	Overview of NSTX Upgrade initial results and modelling highlights. <i>Nuclear Fusion</i> , 2017, 57, 102006.	3.5	45
22	Conference Report on the 2nd International Symposium on Lithium Applications for Fusion Devices. <i>Nuclear Fusion</i> , 2012, 52, 037001.	3.5	36
23	Theory of ion Bernstein wave induced shear suppression of turbulence. <i>Physics of Plasmas</i> , 1994, 1, 1944-1952.	1.9	35
24	Recent progress on spherical torus research. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	35
25	Effect of plasma shaping on performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056122.	1.9	33
26	Recent progress in the NSTX/NSTX-U lithium programme and prospects for reactor-relevant liquid-lithium based divertor development. <i>Nuclear Fusion</i> , 2013, 53, 113030.	3.5	32
27	Exploration of high harmonic fast wave heating on the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 1733-1738.	1.9	31
28	Temperature anisotropy in a cyclotron resonance heated tokamak plasma and the generation of poloidal electric field. <i>Physics of Plasmas</i> , 1995, 2, 2044-2054.	1.9	29
29	Engineering Design of the National Spherical Tokamak Experiment. <i>Fusion Science and Technology</i> , 1996, 30, 1337-1341.	0.6	29
30	Non-inductive plasma start-up on NSTX and projections to NSTX-U using transient CHI. <i>Nuclear Fusion</i> , 2013, 53, 073017.	3.5	28
31	H-mode threshold and dynamics in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 1755-1764.	1.9	27
32	Conference Report on the 1st International Workshop on Li-applications to Boundary Control in Fusion Devices. <i>Nuclear Fusion</i> , 2010, 50, 077001.	3.5	22
33	Active radiative liquid lithium divertor concept. <i>Fusion Engineering and Design</i> , 2014, 89, 2838-2844.	1.9	22
34	Experimental demonstration of tokamak inductive flux saving by transient coaxial helicity injection on national spherical torus experiment. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	21
35	An overview of recent physics results from NSTX. <i>Nuclear Fusion</i> , 2015, 55, 104002.	3.5	21
36	Electron heating of over-dense plasma with dual-frequency electron cyclotron waves in fully non-inductive plasma ramp-up on the QUEST spherical tokamak. <i>Nuclear Fusion</i> , 2020, 60, 016030.	3.5	20

#	ARTICLE	IF	CITATIONS
37	The effects of ICRF heating on plasma edge conditions in PLT. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 1211-1217.	2.1	19
38	Liquid lithium loop system to solve challenging technology issues for fusion power plant. Nuclear Fusion, 2017, 57, 116056.	3.5	19
39	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
40	The geometry of the ICRF-induced waveâ€SOL interaction. A multi-machine experimental review in view of the ITER operation. Nuclear Fusion, 2022, 62, 016014.	3.5	18
41	Implications of NSTX lithium results for magnetic fusion research. Fusion Engineering and Design, 2010, 85, 882-889.	1.9	17
42	Liquid lithium applications for solving challenging fusion reactor issues and NSTX-U contributions. Fusion Engineering and Design, 2017, 117, 124-129.	1.9	17
43	Development of gyrotrons for fusion with power exceeding 1 MW over a wide frequency range. Nuclear Fusion, 2015, 55, 093009.	3.5	16
44	Progress toward commissioning and plasma operation in NSTX-U. Nuclear Fusion, 2015, 55, 073007.	3.5	16
45	WEST actively cooled load resilient ion cyclotron resonance heating system results. Nuclear Fusion, 2021, 61, 096030.	3.5	16
46	The effects of increasing lithium deposition on the power exhaust channel in NSTX. Nuclear Fusion, 2014, 54, 023001.	3.5	15
47	RF-plasma interactions in the antenna near fields. Fusion Engineering and Design, 1990, 12, 43-50.	1.9	14
48	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, 2015, 68, 477-483.	1.1	14
49	Quasilinear analysis of absorption of ion Bernstein waves by electrons. Physics of Plasmas, 1995, 2, 1510-1520.	1.9	13
50	Overview of the physics and engineering design of NSTX upgrade. , 2011, , .		13
51	Simulation, design, and first test of a multi-energy soft x-ray (SXR) pinhole camera in the Madison Symmetric Torus (MST). Review of Scientific Instruments, 2018, 89, 10G116.	1.3	12
52	Recent progress of NSTX lithium program and opportunities for magnetic fusion research. Fusion Engineering and Design, 2012, 87, 1770-1776.	1.9	11
53	28-GHz ECHCD system with beam focusing launcher on the QUEST spherical tokamak. Fusion Engineering and Design, 2019, 146, 1149-1152.	1.9	11
54	Lower-hybrid wave resonance cone detection via CO2-laser scattering. Physics of Fluids, 1985, 28, 716.	1.4	10

#	ARTICLE	IF	CITATIONS
55	CDXâ€œtwoâ€œdimensional scanning microwave system. Review of Scientific Instruments, 1990, 61, 2888-2890.	1.3	10
56	Observation of Nonclassical Radial Current Diffusion in a Fully Bootstrap Current Driven Tokamak. Physical Review Letters, 1996, 77, 3811-3814.	7.8	10
57	Experiments utilizing ion cyclotron range of frequencies heating on the TFTR tokamak. Physics of Fluids B, 1991, 3, 2270-2276.	1.7	9
58	Reconstruction of current density distributions in the CDXâ€œ tokamak. Review of Scientific Instruments, 1992, 63, 4747-4749.	1.3	9
59	National spherical torus experiment (NSTX) Center Stack Upgrade. , 2009, , .		9
60	Effect of wall boundary on the scrape-off layer losses of high harmonic fast wave in NSTX and NSTX-U. Physics of Plasmas, 2019, 26, 062501.	1.9	9
61	Plasma startup in the National Spherical Torus Experiment using transient coaxial helicity injection. Physics of Plasmas, 2007, 14, 056106.	1.9	8
62	Prototype tests of the electromagnetic particle injector-2 for fast time response disruption mitigation in tokamaks. Nuclear Fusion, 2021, 61, 126034.	3.5	8
63	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
64	Conceptual design of a divertor Thomson scattering diagnostic for NSTX-U. Review of Scientific Instruments, 2014, 85, 11E825.	1.3	7
65	Fast Time Response Electromagnetic Disruption Mitigation Concept. Fusion Science and Technology, 2015, 68, 797-805.	1.1	5
66	Modeling of solenoid-free start-up using 2nd harmonic electron cyclotron heating and current drive in QUEST. AIP Conference Proceedings, 2020, , .	0.4	5
67	A folded waveguide ICRF antenna for PBX-M and TFTR. AIP Conference Proceedings, 1996, , .	0.4	4
68	Mode conversion heating and current drive in TFTR. , 1997, , .		4
69	Simplifying the ST and AT Concepts. Journal of Fusion Energy, 2016, 35, 34-40.	1.2	4
70	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
71	Observations with a Mach probe on edge plasma of the CDX-U. Review of Scientific Instruments, 1997, 68, 986-989.	1.3	3
72	Feasibility experiments for electron ripple injection on current drive experiment-upgrade. Physics of Plasmas, 1998, 5, 966-972.	1.9	3

#	ARTICLE	IF	CITATIONS
73	Making of the NSTX facility. , 0, , .		3
74	High-Harmonic Fast-Wave heating in NSTX. AIP Conference Proceedings, 2001, , .	0.4	3
75	Analysis of high-harmonic fast wave propagation and absorption on NSTX. AIP Conference Proceedings, 2001, , .	0.4	3
76	Design Details of the Transient CHI Plasma Start-up System on NSTX-U. IEEE Transactions on Plasma Science, 2014, 42, 2154-2160.	1.3	3
77	High-Field-Side RF Injection for Excitation of Electron Bernstein Waves. Plasma and Fusion Research, 2018, 13, 3402115-3402115.	0.7	3
78	A computational tool for simulation and design of tangential multi-energy soft x-ray pin-hole cameras for tokamak plasmas. Review of Scientific Instruments, 2018, 89, 10G120.	1.3	3
79	HFS Injection of X-Mode for EBW Conversion in QUEST. Plasma and Fusion Research, 2019, 14, 1205038-1205038.	0.7	3
80	Active Radiative Liquid Lithium Divertor for Handling Transient High Heat Flux Events. Journal of Fusion Energy, 2020, 39, 402-410.	1.2	3
81	Multi-energy reconstructions, central electron temperature measurements, and early detection of the birth and growth of runaway electrons using a versatile soft x-ray pinhole camera at MST. Review of Scientific Instruments, 2021, 92, 073502.	1.3	3
82	Farâ€infrared laser scattering in the ACTâ€toroidal device. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 1074-1076.	2.1	2
83	Boxcar photography. Review of Scientific Instruments, 1989, 60, 2690-2696.	1.3	2
84	Performance of the PBX-M passive plate stabilization system. , 0, , .		2
85	Hotâ€ion Bernstein wave with finite kâ€. Physics of Plasmas, 1995, 2, 1899-1906.	1.9	2
86	Conceptual analysis and design of NSTX vacuum vessel and support structures. , 0, , .		2
87	Alternative concepts: A report to the Fusion Energy Sciences Advisory Committee. Journal of Fusion Energy, 1996, 15, 249-280.	1.2	2
88	Results of NSTX heating experiments. IEEE Transactions on Plasma Science, 2003, 31, 60-67.	1.3	2
89	Solenoid-free Plasma Start-up in NSTX using Transient CHI. Journal of Fusion Energy, 2009, 28, 200-202.	1.2	2
90	Overview of TAE technologiesâ€™ HHFW project on LAPD. AIP Conference Proceedings, 2020, , .	0.4	2

#	ARTICLE	IF	CITATIONS
91	Initial Results from High-Field-Side Transient CHI Start-Up on QUEST. Plasma and Fusion Research, 2021, 16, 2402048-2402048.	0.7	2
92	Parametric Decay Wave Observation in HFS X-Mode Injection in QUEST. Plasma and Fusion Research, 2020, 15, 2402063-2402063.	0.7	2
93	PBX-M upgrade for advanced stabilization and profile control studies. , 0, , .		1
94	Ray-tracing model of IBW generated sheared flow for plasma transport control. , 1996, , .		1
95	Role of plasma edge in the direct launch Ion Bernstein Wave experiment in TFTR. , 1997, , .		1
96	Heating and current drive on NSTX. , 1997, , .		1
97	The Report of the Subpanel to FESAC Concerning Alternative Concepts. Journal of Fusion Energy, 1999, 18, 161-193.	1.2	1
98	Spherical torus center stack design. , 0, , .		1
99	Plasma Start-up in HIT-II and NSTX Using Transient Coaxial Helicity Injection. Journal of Fusion Energy, 2008, 27, 96-99.	1.2	1
100	Solenoid-Less Plasma Start-Up in NSTX Using Transient CHI. Fusion Science and Technology, 2009, 56, 512-517.	1.1	1
101	Overview of Innovative PMI Research on NSTX-U and Associated PMI Facilities at PPPL. Fusion Science and Technology, 2013, 63, 21-28.	1.1	1
102	Helicon wave coupling optimization and possible parasitic excitation of slow waves near the edge plasma of KSTAR. AIP Conference Proceedings, 2020, , .	0.4	1
103	Comparison of bounce-averaged quasilinear theory with charge exchange measurements during minority fundamental and majority second harmonic ICRF heating in PLT. AIP Conference Proceedings, 1985, , .	0.4	0
104	The MICADO-A Multi-ion species confinement analysis code for ICRF and IBW heating experiments. AIP Conference Proceedings, 1985, , .	0.4	0
105	Visible spectroscopy on RF heated discharges in the Princeton large Torus tokamak. AIP Conference Proceedings, 1987, , .	0.4	0
106	Reduced thermal diffusion using lower hybrid waves in a tokamak plasma. AIP Conference Proceedings, 1987, , .	0.4	0
107	Microwave polarimetry system in the CDX tokamak. Review of Scientific Instruments, 1995, 66, 379-381.	1.3	0
108	Quasilinear analysis of ion Bernstein and lower hybrid waves synergy. , 1996, , .		0

#	ARTICLE	IF	CITATIONS
109	Cold electrostatic ion cyclotron waves for preionization and IBW launching in LHD. , 1999, , .		0
110	RF experiments on spherical torus plasmas. , 1999, , .		0
111	Title is missing!. Journal of Fusion Energy, 2000, 19, 245-292.	1.2	0
112	High performance plasmas on the National Spherical Torus Experiment. , 0, , .		0
113	Design description of the coaxial helicity injection (CHI) system on NSTX-U. , 2013, , .		0
114	NSTX-U In-Vessel Control Coils™ Design Concept. IEEE Transactions on Plasma Science, 2018, 46, 1528-1533.	1.3	0
115	Massive Gas Injection Plans for Disruption Mitigation Studies in NSTX-U. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 468-471.	0.2	0
116	Transient Coaxial Helicity Injection Plasma Start-up in NSTX and CHI Program Plans on NSTX-U. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 462-467.	0.2	0
117	TSC Simulation of Transient CHI in New Electrode Configuration on QUEST. Plasma and Fusion Research, 2018, 13, 3402059-3402059.	0.7	0
118	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0