Tom Wauters

List of Publications by Year
in descending order

Version: 2024-02-01

47 papers	713 citations	516710 16 h-index	610901 24 g-index
47 all docs	47 docs citations	47 times ranked	844 citing authors

#	Article	IF	Citations
1	Investigation of plasma wall interactions between tungsten plasma facing components and helium plasmas in the WEST tokamak. Nuclear Fusion, 2022, 62, 076028.	3.5	22
2	Plasmaâ€“surface interaction in the stellarator W7-X: conclusions drawn from operation with graphite plasma-facing components. Nuclear Fusion, 2022, 62, 016006.	3.5	12
3	Isotope removal experiment in JET-ILW in view of T-removal after the 2nd DT campaign at JET. Physica Scripta, 2022, 97, 044001.	2.5	7
4	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
5	Plasma Production in ICRF in the Uragan-2M Stellarator in Hydrogenâ€“Helium Gas Mixture. Journal of Fusion Energy, 2022, 41, .	1.2	5
6	Three-dimensional first principles simulation of a hydrogen discharge. Plasma Physics and Controlled Fusion, 2021, 63, 045012.	2.1	7
7	The upgraded TOMAS device: A toroidal plasma facility for wall conditioning, plasma production, and plasmaâ€“surface interaction studies. Review of Scientific Instruments, 2021, 92, 023506.	1.3	13
8	MODELLING OF RADIO-FREQUENCY WALL CONDITIONING IN SHORT PULSES IN A STELLARATOR. , 2021, , 9-14.		1
9	Deuterium and helium outgassing following plasma discharges in WEST: Delayed D outgassing during D-to-He changeover experiments studied with threshold ionization mass spectrometry. Nuclear Materials and Energy, 2021, 26, 100885.	1.3	5
10	Characterization of injection and confinement improvement through impurity induced profile modifications on the Wendelstein 7-X stellarator. Physics of Plasmas, 2021, 28, .	1.9	18
11	Characterization of neutral particle fluxes from ICWC and ECWC plasmas in the TOMAS facility. Physica Scripta, 2021, 96, 124025.	2.5	7
12	First experiments on plasma production using field-aligned ICRF fast wave antennas in the large helical device. Nuclear Fusion, 2021, 61, 114004.	3.5	9
13	Plasma-wall interaction studies in W7-X: main results from the recent divertor operations. Physica Scripta, 2021, 96, 124059.	2.5	10
14	Evaluation of tritium retention in plasma facing components during JET tritium operations. Physica Scripta, 2021, 96, 124075.	2.5	14
15	Wall conditioning in fusion devices with superconducting coils. Plasma Physics and Controlled Fusion, 2020, 62, 034002.	2.1	25
16	First experiments on ICRF discharge generation by a W7-X-like antenna in the Uragan-2M stellarator. Journal of Plasma Physics, 2020, 86, .	2.1	12
17	Impurity sources and fluxes in W7-X: from the plasma-facing components to the edge layer. Physica Scripta, 2020, T171, 014040.	2.5	14
18	Wall conditioning at the Wendelstein 7-X stellarator operating with a graphite divertor. Physica Scripta, 2020, T171, 014063.	2.5	15

#	Article	IF	Citations
19	RF plasma simulations using the TOMATOR 1D code: a case study for TCV helium ECRH plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 105010.	2.1	8
20	Impact of boronizations on impurity sources and performance in Wendelstein 7-X. Nuclear Fusion, 2020, 60, 086007.	3.5	26
21	TWO-STRAP RF ANTENNA IN URAGAN-2M STELLARATOR. , 2020, , 10-14.		2
22	First divertor physics studies in Wendelstein 7-X. Nuclear Fusion, 2019, 59, 096014.	3.5	34
23	Performance of Wendelstein 7-X stellarator plasmas during the first divertor operation phase. Physics of Plasmas, 2019, 26, .	1.9	83
24	Development of glow discharge and electron cyclotron resonance heating conditioning on W7-X. Nuclear Materials and Energy, 2019, 18, 227-232.	1.3	8
25	Development of helium electron cyclotron wall conditioning on TCV. Nuclear Fusion, 2018, 58, 026018.	3.5	13
26	Wall conditioning by ECRH discharges and He-GDC in the limiter phase of Wendelstein 7-X. Nuclear Fusion, 2018, 58, 066013.	3.5	15
27	Wall conditioning throughout the first carbon divertor campaign on Wendelstein 7-X. Nuclear Materials and Energy, 2018, 17, 235-241.	1.3	14
28	Design of an ICRF system for plasmaâ€“wall interactions and RF plasma production studies on TOMAS. Fusion Engineering and Design, 2017, 123, 317-320.	1.9	4
29	Plasma-wall interaction studies in the full-W ASDEX upgrade during helium plasma discharges. Nuclear Fusion, 2017, 57, 066015.	3.5	16
30	Investigation of probe surfaces after ion cyclotron wall conditioning in ASDEX upgrade. Nuclear Materials and Energy, 2017, 12, 733-735.	1.3	3
31	A PIC-MCC code RFdinity1d for simulation of discharge initiation by ICRF antenna. Nuclear Fusion, 2017, 57, 126043.	3.5	8
32	Advanced electron cyclotron heating and current drive experiments on the stellarator Wendelstein 7-X. EPJ Web of Conferences, 2017, 157, 02008.	0.3	23
33	Discharge initiation by ICRF antenna in IShTAR. EPJ Web of Conferences, 2017, 157, 03056.	0.3	2
34	Isotope exchange by Ion Cyclotron Wall Conditioning on JET. Journal of Nuclear Materials, 2015, 463, 1104-1108.	2.7	16
35	Monte Carlo simulation of ICRF discharge initiation in ITER. AIP Conference Proceedings, 2015, , .	0.4	3
36	Wall conditioning for ITER: Current experimental and modeling activities. Journal of Nuclear Materials, 2015, 463, 150-156.	2.7	28

#	Article	IF	Citations
37	Monte Carlo simulation of initial breakdown phase for magnetised toroidal ICRF discharges. , 2014, , .		2
38	Ion and electron cyclotron wall conditioning in stellarator and tokamak magnetic field configuration on WEGA. , 2014, , .		7
39	Study of plasma start-up initiated by second harmonic electron cyclotron resonance heating on WEGA experiment. , 2014, , .		4
40	Study and design of the ion cyclotron resonance heating system for the stellarator Wendelstein 7-X. Physics of Plasmas, 2014, 21, .	1.9	35
41	Impact of ion cyclotron wall conditioning on fuel removal from plasma-facing components at TEXTOR. Physica Scripta, 2014, T159, 014017.	2.5	9
42	Self-consistent application of ion cyclotron wall conditioning for co-deposited layer removal and recovery of tokamak operation on TEXTOR. Nuclear Fusion, 2013, 53, 123001.	3.5	15
43	Simulation of ITER full-field ICWC scenario in JET: RF physics aspects. Plasma Physics and Controlled Fusion, 2012, 54, 074014.	2.1	26
44	Isotope exchange experiments on TEXTOR and TORE SUPRA using Ion Cyclotron Wall Conditioning and Glow Discharge Conditioning. Journal of Nuclear Materials, 2011, 415, S1033-S1036.	2.7	16
45	Recent results on Ion Cyclotron Wall Conditioning in mid and large size tokamaks. Journal of Nuclear Materials, 2011, 415, S1021-S1028.	2.7	41
46	0D model of magnetized hydrogenâ€“helium wall conditioning plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 125003.	2.1	21
47	Comparative analysis of the plasma parameters of ECR and combined ECR+RF discharges in the TOMAS plasma facility. Plasma Physics and Controlled Fusion, 0, , .	2.1	5