

Daniel Alegre Castro

List of Publications by Year in descending order

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docs citations

44
times ranked

1364
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the TJ-II stellarator research programme towards model validation in fusion plasmas. Nuclear Fusion, 2022, 62, 042025.	3.5	9
2	CIEMAT experimental proposal on lithium ignition in support of DONES licensing (LiFIRE facility). Nuclear Materials and Energy, 2022, 31, 101177.	1.3	2
3	Spectroscopic Characterization of Ablation Plasmas in the Oimat HHF Facility. , 2022, , .		0
4	Enhanced performance in fusion plasmas through turbulence suppression by megaelectronvolt ions. Nature Physics, 2022, 18, 776-782.	16.7	36
5	Lithium, a path to make fusion energy affordable. Physics of Plasmas, 2021, 28, 050901.	1.9	24
6	Impact of divertor configuration on recycling neutral fluxes for ITER-like wall in JET H-mode plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 035006.	2.1	8
7	Design and Testing of Advanced Liquid Metal Targets for DEMO Divertor: The OLMAT Project. Journal of Fusion Energy, 2020, 39, 411-420.	1.2	10
8	Overview of recent TJ-II stellarator results. Nuclear Fusion, 2019, 59, 112019.	3.5	12
9	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
10	Temperature dependence of liquid lithium film formation and deuterium retention on hot W samples studied by LID-QMS. Implications for future fusion reactors. Nuclear Fusion, 2018, 58, 046003.	3.5	13
11	Role of nitrogen inventory and ion enhanced N-H recombination in the ammonia formation on tungsten walls. A DC glow discharge study. Vacuum, 2018, 151, 66-72.	3.5	8
12	Experimental tests of LiSn alloys as potential liquid metal for the divertor target in a fusion reactor. Nuclear Materials and Energy, 2017, 12, 1368-1373.	1.3	26
13	Hydrogen retention studies on lithiated tungsten exposed to glow discharge plasmas under varying lithiation environments using Thermal Desorption Spectroscopy and mass spectrometry. Fusion Engineering and Design, 2017, 117, 212-216.	1.9	2
14	Studies of lithium deposition and D retention on tungsten samples exposed to Li-seeded plasmas in PISCES-A. Plasma Physics and Controlled Fusion, 2017, 59, 044006.	2.1	4
15	Reactor plasma facing component designs based on liquid metal concepts supported in porous systems. Nuclear Fusion, 2017, 57, 016029.	3.5	30
16	Detection of ammonia by residual gas analysis in AUG and JET. Fusion Engineering and Design, 2017, 124, 239-243.	1.9	16
17	Influence of residence time and helium addition in the ammonia formation on tungsten walls in N ₂ H ₂ glow discharge plasmas. Nuclear Materials and Energy, 2017, 12, 399-404.	1.3	12
18	Measurement of sputtered beryllium yield and angular distribution during nanostructure growth in a helium plasma. Journal of Applied Physics, 2017, 122, .	2.5	1

#	ARTICLE	IF	CITATIONS
19	Evaluation of the plasma hydrogen isotope content by residual gas analysis at JET and AUG. Physica Scripta, 2017, T170, 014021.	2.5	6
20	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
21	A parametric study of helium retention in beryllium and its effect on deuterium retention. Physica Scripta, 2017, T170, 014028.	2.5	6
22	3D effects on transport and plasma control in the TJ-II stellarator. Nuclear Fusion, 2017, 57, 102022.	3.5	16
23	Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. Nuclear Fusion, 2017, 57, 116041.	3.5	75
24	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. Physica Scripta, 2016, T167, 014077.	2.5	18
25	Physisorption of ammonia on AISI 304 L stainless steel at different surface temperature under high vacuum conditions. Nuclear Materials and Energy, 2016, 9, 1-5.	1.3	10
26	Erosion of a-C:H in the afterglow of ammonia plasma. Journal of Nuclear Materials, 2016, 475, 237-242.	2.7	5
27	Cleaning of carbon materials from flat surfaces and castellation gaps by an atmospheric pressure plasma jet. Fusion Engineering and Design, 2016, 103, 38-44.	1.9	8
28	Product analysis during the thermo-oxidation of amorphous deuterated hydrocarbon films with NO ₂ . Nuclear Materials and Energy, 2015, 5, 1-6.	1.3	0
29	Mass spectrometry analysis of the impurity content in N ₂ seeded discharges in JET-ILW. Journal of Nuclear Materials, 2015, 463, 684-687.	2.7	13
30	First liquid lithium limiter biasing experiments in the TJ-II stellarator. Journal of Nuclear Materials, 2015, 463, 1142-1146.	2.7	30
31	Thermo-oxidation of carbon codeposits and particles release during laser ablation in an oxygen atmosphere and its extrapolation to ITER codeposits. Fusion Engineering and Design, 2015, 100, 646-651.	1.9	2
32	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
33	Ammonia formation in N ₂ /H ₂ plasmas on ITER-relevant plasma facing materials: Surface temperature and N ₂ plasma content effects. Journal of Nuclear Materials, 2015, 463, 676-679.	2.7	22
34	Transport, stability and plasma control studies in the TJ-II stellarator. Nuclear Fusion, 2015, 55, 104014.	3.5	9
35	Plasma-wall interactions with nitrogen seeding in all-metal fusion devices: Formation of nitrides and ammonia. Fusion Engineering and Design, 2015, 98-99, 1371-1374.	1.9	33
36	Study of correlation of deuterium content in a-C:D dust induced by laser irradiation from the co-deposited surface with the grain size and velocity. Physica Scripta, 2014, T161, 014010.	2.5	3

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37	Surface effects on the diagnostic of carbon/nitrogen low-pressure plasmas studied by differentially pumped mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 342-352.	1.6	5
38	Thermo-chemical fuel removal from porous materials by oxygen and nitrogen dioxide. <i>Physica Scripta</i> , 2014, T159, 014065.	2.5	6
39	Oxidative removal of tokamak codeposits using NO ₂ and O ₂ . <i>Journal of Nuclear Materials</i> , 2013, 438, S1104-S1108.	2.7	12
40	Dynamics of flows and confinement in the TJ-II stellarator. <i>Nuclear Fusion</i> , 2013, 53, 104016.	3.5	5
41	Overview of TJ-II experiments. <i>Nuclear Fusion</i> , 2011, 51, 094022.	3.5	24
42	Synthesis and luminescence properties of electrodeposited ZnO films. <i>Journal of Applied Physics</i> , 2011, 110, 043538.	2.5	71
43	Tritium control techniques in ITER by ammonia injection. <i>Journal of Nuclear Materials</i> , 2011, 415, S793-S796.	2.7	5
44	Destruction of methane in low-pressure, electrodeless radio frequency plasma on quartz walls. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	4