

William R Wampler

List of Publications by Year in descending order

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papers

1,001
citations

430874

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434195

31
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39
all docs

39
docs citations

39
times ranked

726
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation and trapping of hydrogen in copper. Philosophical Magazine and Journal, 1976, 34, 129-141.	1.7	144
2	The influence of displacement damage on deuterium retention in tungsten exposed to plasma. Nuclear Fusion, 2009, 49, 115023.	3.5	138
3	Effect of He on D retention in W exposed to low-energy, high-fluence (D, He, Ar) mixture plasmas. Nuclear Fusion, 2011, 51, 103021.	3.5	97
4	Divertor materials evaluation system (DiMES). Journal of Nuclear Materials, 1998, 258-263, 433-439.	2.7	49
5	The inter-ELM tungsten erosion profile in DIII-D H-mode discharges and benchmarking with ERO+OEDGE modeling. Nuclear Fusion, 2017, 57, 056034.	3.5	47
6	Simulation of gross and net erosion of high-Z materials in the DIII-D divertor. Nuclear Fusion, 2016, 56, 016021.	3.5	41
7	Model of defect reactions and the influence of clustering in pulse-neutron-irradiated Si. Journal of Applied Physics, 2008, 104, .	2.5	36
8	Erosion and deposition of metals and carbon in the DIII-D divertor. Journal of Nuclear Materials, 1996, 233-237, 791-797.	2.7	33
9	DIVIMP modeling of the toroidally symmetrical injection of 13CH4 into the upper SOL of DIII-D. Journal of Nuclear Materials, 2005, 337-339, 124-128.	2.7	27
10	Analysis of a tungsten sputtering experiment in DIII-D and code/data validation of high redeposition/reduced erosion. Fusion Engineering and Design, 2015, 94, 67-71.	1.9	25
11	Tungsten erosion by unipolar arcing in DIII-D. Physica Scripta, 2017, T170, 014034.	2.5	25
12	Deuterium retention in tungsten from exposure to plasma. Physica Scripta, 2009, T138, 014037.	2.5	24
13	Net versus gross erosion of high-Z materials in the divertor of DIII-D. Physica Scripta, 2014, T159, 014030.	2.5	23
14	An experimental comparison of gross and net erosion of Mo in the DIII-D divertor. Journal of Nuclear Materials, 2013, 438, S309-S312.	2.7	22
15	Experimental validation of a model for particle recycling and tungsten erosion during ELMs in the DIII-D divertor. Nuclear Materials and Energy, 2018, 17, 164-173.	1.3	22
16	Overview of the recent DiMES and MiMES experiments in DIII-D. Physica Scripta, 2009, T138, 014007.	2.5	20
17	Measurements of net erosion and redeposition of molybdenum in DIII-D. Journal of Nuclear Materials, 2013, 438, S822-S826.	2.7	20
18	Evidence of near-SOL tungsten accumulation using a far-SOL collector probe array and OEDGE modelling in the DIII-D metal rings L-mode discharges. Nuclear Materials and Energy, 2019, 19, 287-294.	1.3	19

#	ARTICLE	IF	CITATIONS
19	DiMES PMI research at DIII-D in support of ITER and beyond. Fusion Engineering and Design, 2017, 124, 196-201.	1.9	18
20	Utilization of outer-midplane collector probes with isotopically enriched tungsten tracer particles for impurity transport studies in the scrape-off layer of DIII-D (invited). Review of Scientific Instruments, 2018, 89, 101115.	1.3	18
21	Model for transport and reaction of defects and carriers within displacement cascades in gallium arsenide. Journal of Applied Physics, 2015, 117, .	2.5	14
22	Use of isotopic tungsten tracers and a stable-isotope-mixing model to characterize divertor source location in the DIII-D metal rings campaign. Nuclear Materials and Energy, 2019, 19, 358-363.	1.3	13
23	ERO modeling and analysis of tungsten erosion and migration from a toroidally symmetric source in the DIII-D divertor. Nuclear Fusion, 2020, 60, 016018.	3.5	13
24	Localized divertor leakage measurements using isotopic tungsten sources during edge-localized mode-y H-mode discharges on DIII-D. Nuclear Fusion, 2020, 60, 016028.	3.5	13
25	Modeling of ExB effects on tungsten re-deposition and transport in the DIII-D divertor. Nuclear Fusion, 2021, 61, 096018.	3.5	13
26	Divertor and midplane materials evaluation system in DIII-D. Journal of Nuclear Materials, 2007, 363-365, 276-281.	2.7	10
27	Field dependent emission rates in radiation damaged GaAs. Journal of Applied Physics, 2014, 116, .	2.5	10
28	Measurements of tungsten migration in the DIII-D divertor. Physica Scripta, 2017, T170, 014041.	2.5	10
29	Indications of an inward pinch in the inner SOL of DIII-D from ¹³ C deposition experiments. Journal of Nuclear Materials, 2009, 390-391, 376-379.	2.7	9
30	Plasma interactions with the outboard chamber wall in DIII-D. Journal of Nuclear Materials, 2009, 390-391, 785-788.	2.7	8
31	Multiple Analytical Approach to Isotopic Transport Analysis in Magnetic Fusion Devices. Fusion Science and Technology, 2019, 75, 493-498.	1.1	8
32	Recombination by band-to-defect tunneling near semiconductor heterojunctions: A theoretical model. Journal of Applied Physics, 2016, 120, .	2.5	7
33	Modeling, analysis, and code/data validation of DIII-D tokamak divertor experiments on ELM and non-ELM plasma tungsten sputtering erosion. Nuclear Fusion, 2020, 60, 126026.	3.5	7
34	Reduced model of high-Z impurity redeposition and erosion in tokamak divertor and its application to DIII-D experiments. Plasma Physics and Controlled Fusion, 2019, 61, 125015.	2.1	6
35	Net versus gross erosion of silicon carbide in DIII-D divertor. Physica Scripta, 2020, T171, 014064.	2.5	5
36	High-Z material erosion and its control in DIII-D carbon divertor. Nuclear Materials and Energy, 2017, 12, 247-252.	1.3	4

#	ARTICLE	IF	CITATIONS
37	Temperature dependence of deuterium retention at displacement damage in tungsten. Physica Scripta, 2020, T171, 014012.	2.5	2
38	Optimization of target lifetime for production of 14ÂMeV neutrons. Nuclear Instruments & Methods in Physics Research B, 2020, 485, 26-31.	1.4	0