William R Wampler

List of Publications by Year
in descending order

38	1,001	430874	434195
papers	citations	18 h-index	31 g-index

39	39	39	726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling of ExB effects on tungsten re-deposition and transport in the DIII-D divertor. Nuclear Fusion, 2021, 61, 096018.	3.5	13
2	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
3	Optimization of target lifetime for production of 14ÂMeV neutrons. Nuclear Instruments & Methods in Physics Research B, 2020, 485, 26-31.	1.4	0
4	Temperature dependence of deuterium retention at displacement damage in tungsten. Physica Scripta, 2020, T171, 014012.	2.5	2
5	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
6	Net versus gross erosion of silicon carbide in DIII-D divertor. Physica Scripta, 2020, T171, 014064.	2.5	5
7	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
8	Multiple Analytical Approach to Isotopic Transport Analysis in Magnetic Fusion Devices. Fusion Science and Technology, 2019, 75, 493-498.	1.1	8
9	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
10	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
11	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
12	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
13	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
14	High-Z material erosion and its control in DIII-D carbon divertor. Nuclear Materials and Energy, 2017, 12, 247-252.	1.3	4
15	DiMES PMI research at DIII-D in support of ITER and beyond. Fusion Engineering and Design, 2017, 124, 196-201.	1.9	18
16	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
17	Tungsten erosion by unipolar arcing in DIII-D. Physica Scripta, 2017, T170, 014034.	2.5	25
18	Measurements of tungsten migration in the DIII-D divertor. Physica Scripta, 2017, T170, 014041.	2.5	10

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19	Recombination by band-to-defect tunneling near semiconductor heterojunctions: A theoretical model. Journal of Applied Physics, 2016, 120, .	2.5	7
20	Simulation of gross and net erosion of high-Z materials in the DIII-D divertor. Nuclear Fusion, 2016, 56, 016021.	3.5	41
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	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
23	Field dependent emission rates in radiation damaged GaAs. Journal of Applied Physics, 2014, 116, .	2.5	10
24	Net versus gross erosion of high-Zmaterials in the divertor of DIII-D. Physica Scripta, 2014, T159, 014030.	2.5	23
25	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
26	Measurements of net erosion and redeposition of molybdenum in DIII-D. Journal of Nuclear Materials, 2013, 438, S822-S826.	2.7	20
27	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
28	Overview of the recent DiMES and MiMES experiments in DIII-D. Physica Scripta, 2009, T138, 014007.	2.5	20
29	Indications of an inward pinch in the inner SOL of DIII-D from 13C 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	The influence of displacement damage on deuterium retention in tungsten exposed to plasma. Nuclear Fusion, 2009, 49, 115023.	3.5	138
32	Deuterium retention in tungsten from exposure to plasma. Physica Scripta, 2009, T138, 014037.	2.5	24
33	Model of defect reactions and the influence of clustering in pulse-neutron-irradiated Si. Journal of Applied Physics, 2008, 104, .	2.5	36
34	Divertor and midplane materials evaluation system in DIII-D. Journal of Nuclear Materials, 2007, 363-365, 276-281.	2.7	10
35	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
36	Divertor materials evaluation system (DiMES). Journal of Nuclear Materials, 1998, 258-263, 433-439.	2.7	49

#	Article	IF	Citations
37	Erosion and deposition of metals and carbon in the DIIIâ€”D divertor. Journal of Nuclear Materials, 1996, 233-237, 791-797.	2.7	33
38	Precipitation and trapping of hydrogen in copper. Philosophical Magazine and Journal, 1976, 34, 129-141.	1.7	144