Elodie Bernard

List of Publications by Year
in descending order

22	239	840776 11	996975 15
papers	citations	h-index	g-index

23	23	23	266
all docs	docs citations	times ranked	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	Influence of traps reversibility on hydrogen permeation and retention in Eurofer97. Nuclear Fusion, 2022, 62, 086011.	3.5	3
3	SHS Synthesis, SPS Densification and Mechanical Properties of Nanometric Tungsten. Metals, 2021, 11, 252.	2.3	3
4	Influence of exposure conditions on helium transport and bubble growth in tungsten. Scientific Reports, 2021, 11, 14681.	3.3	6
5	First post-mortem analysis of deposits collected on ITER-like components in WEST after the C3 and C4 campaigns. Physica Scripta, 2021, 96, 124035.	2.5	11
6	Gross and net erosion balance of plasma-facing materials in full-W tokamaks. Nuclear Fusion, 2021, 61, 116006.	3.5	13
7	Erosion and redeposition patterns on entire erosion marker tiles after exposure in the first operation phase of WEST. Physica Scripta, 2021, 96, 124020.	2.5	20
8	Tungsten Nanoparticles Produced by Magnetron Sputtering Gas Aggregation: Process Characterization and Particle Properties. , 2020, , .		4
9	Hydrogen trapping in tungsten: impact of helium irradiation and thermal cycling. Physica Scripta, 2020, T171, 014066.	2.5	13
10	Toxicological Assessment of ITER-Like Tungsten Nanoparticles Using an In Vitro 3D Human Airway Epithelium Model. Nanomaterials, 2019, 9, 1374.	4.1	22
11	In Vitro Analysis of the Effects of ITER-Like Tungsten Nanoparticles: Cytotoxicity and Epigenotoxicity in BEAS-2B Cells. Nanomaterials, 2019, 9, 1233.	4.1	11
12	Design of model tokamak particles for future toxicity studies: Morphology and physical characterization. Fusion Engineering and Design, 2019, 145, 60-65.	1.9	6
13	Current investigations on tritiated dust and its impact on tokamak safety. Nuclear Fusion, 2019, 59, 086061.	3.5	14
14	Tritium retention in W plasma-facing materials: Impact of the material structure and helium irradiation. Nuclear Materials and Energy, 2019, 19, 403-410.	1.3	17
15	SHS Synthesis and SPS Densification of Nanometric Tungsten. Advanced Engineering Materials, 2018, 20, 1701138.	3.5	4
16	Temperature impact on the micro structure of tungsten exposed to He irradiation in LHD. Journal of Nuclear Materials, 2017, 484, 24-29.	2.7	14
17	Estimation of the tritium retention in ITER tungsten divertor target using macroscopic rate equations simulations. Physica Scripta, 2017, T170, 014033.	2.5	15
18	Tungsten as a plasma-facing material in fusion devices: impact of helium high-temperature irradiation on hydrogen retention and damages in the material. Physica Scripta, 2017, T170, 014023.	2.5	8

#	Article	IF	Citations
19	Surface morphology in tungsten and RAFM steel exposed to helium plasma in PSI-2. Physica Scripta, 2017, T170, 014062.	2.5	13
20	Tungsten dust in fusion tokamaks: relevant dust laser production, characterization and behaviour under tritium loading. Physica Scripta, 2016, T167, 014071.	2.5	11
21	Multi-technique coupling for analysis of deuterium retention in carbon fiber composite NB31. Journal of Materials Science, 2015, 50, 7031-7042.	3.7	3
22	Simultaneous deuterium implantation and ion beam microanalyses in CFC NB31: Understanding the in-bulk migration. Journal of Nuclear Materials, 2013, 438, S975-S978.	2.7	6