

# Elodie Bernard

## List of Publications by Year in descending order

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22  
papers

239  
citations

840776

11  
h-index

996975

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23  
times ranked

266  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Toxicological Assessment of ITER-Like Tungsten Nanoparticles Using an In Vitro 3D Human Airway Epithelium Model. <i>Nanomaterials</i> , 2019, 9, 1374.  | 4.1 | 22        |
| 2  | Investigation of plasma wall interactions between tungsten plasma facing components and helium plasmas in the WEST tokamak. <i>Nuclear Fusion</i> , 2022, 62, 076028.                                 | 3.5 | 22        |
| 3  | Erosion and redeposition patterns on entire erosion marker tiles after exposure in the first operation phase of WEST. <i>Physica Scripta</i> , 2021, 96, 124020.                                      | 2.5 | 20        |
| 4  | Tritium retention in W plasma-facing materials: Impact of the material structure and helium irradiation. <i>Nuclear Materials and Energy</i> , 2019, 19, 403-410.                                     | 1.3 | 17        |
| 5  | Estimation of the tritium retention in ITER tungsten divertor target using macroscopic rate equations simulations. <i>Physica Scripta</i> , 2017, T170, 014033.                                       | 2.5 | 15        |
| 6  | Temperature impact on the micro structure of tungsten exposed to He irradiation in LHD. <i>Journal of Nuclear Materials</i> , 2017, 484, 24-29.   | 2.7 | 14        |
| 7  | Current investigations on tritiated dust and its impact on tokamak safety. <i>Nuclear Fusion</i> , 2019, 59, 086061.  | 3.5 | 14        |
| 8  | Surface morphology in tungsten and RAFM steel exposed to helium plasma in PSI-2. <i>Physica Scripta</i> , 2017, T170, 014062.   | 2.5 | 13        |
| 9  | Hydrogen trapping in tungsten: impact of helium irradiation and thermal cycling. <i>Physica Scripta</i> , 2020, T171, 014066.   | 2.5 | 13        |
| 10 | Gross and net erosion balance of plasma-facing materials in full-W tokamaks. <i>Nuclear Fusion</i> , 2021, 61, 116006.  | 3.5 | 13        |
| 11 | Tungsten dust in fusion tokamaks: relevant dust laser production, characterization and behaviour under tritium loading. <i>Physica Scripta</i> , 2016, T167, 014071.                                  | 2.5 | 11        |
| 12 | In Vitro Analysis of the Effects of ITER-Like Tungsten Nanoparticles: Cytotoxicity and Epigenotoxicity in BEAS-2B Cells. <i>Nanomaterials</i> , 2019, 9, 1233.  | 4.1 | 11        |
| 13 | First post-mortem analysis of deposits collected on ITER-like components in WEST after the C3 and C4 campaigns. <i>Physica Scripta</i> , 2021, 96, 124035.  | 2.5 | 11        |
| 14 | Tungsten as a plasma-facing material in fusion devices: impact of helium high-temperature irradiation on hydrogen retention and damages in the material. <i>Physica Scripta</i> , 2017, T170, 014023. | 2.5 | 8         |
| 15 | Simultaneous deuterium implantation and ion beam microanalyses in CFC NB31: Understanding the in-bulk migration. <i>Journal of Nuclear Materials</i> , 2013, 438, S975-S978.                          | 2.7 | 6         |
| 16 | Design of model tokamak particles for future toxicity studies: Morphology and physical characterization. <i>Fusion Engineering and Design</i> , 2019, 145, 60-65.                                     | 1.9 | 6         |
| 17 | Influence of exposure conditions on helium transport and bubble growth in tungsten. <i>Scientific Reports</i> , 2021, 11, 14681.  | 3.3 | 6         |
| 18 | SHS Synthesis and SPS Densification of Nanometric Tungsten. <i>Advanced Engineering Materials</i> , 2018, 20, 1701138.  | 3.5 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Tungsten Nanoparticles Produced by Magnetron Sputtering Gas Aggregation: Process Characterization and Particle Properties. , 2020, , .          |     | 4         |
| 20 | Multi-technique coupling for analysis of deuterium retention in carbon fiber composite NB31. Journal of Materials Science, 2015, 50, 7031-7042. | 3.7 | 3         |
| 21 | SHS Synthesis, SPS Densification and Mechanical Properties of Nanometric Tungsten. Metals, 2021, 11, 252.                                       | 2.3 | 3         |
| 22 | Influence of traps reversibility on hydrogen permeation and retention in Eurofer97. Nuclear Fusion, 2022, 62, 086011.                           | 3.5 | 3         |