

Yiran Mao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Materials for DEMO and reactor applicationsâ€”boundary conditions and new concepts. <i>Physica Scripta</i> , 2016, T167, 014002.	2.5	85
2	Influence of the interface strength on the mechanical properties of discontinuous tungsten fiber-reinforced tungsten composites produced by field assisted sintering technology. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 342-353.	7.6	68
3	The influence of annealing on yttrium oxide thin film deposited by reactive magnetron sputtering: Process and microstructure. <i>Nuclear Materials and Energy</i> , 2017, 10, 1-8.	1.3	52
4	Advanced materials for a damage resilient divertor concept for DEMO: Powder-metallurgical tungsten-fibre reinforced tungsten. <i>Fusion Engineering and Design</i> , 2017, 124, 964-968.	1.9	40
5	Improved pseudo-ductile behavior of powder metallurgical tungsten short fiber-reinforced tungsten (W/W). <i>Nuclear Materials and Energy</i> , 2018, 15, 214-219.	1.3	36
6	New oxidation-resistant tungsten alloys for use in the nuclear fusion reactors. <i>Physica Scripta</i> , 2017, T170, 014012.	2.5	34
7	Advanced smart tungsten alloys for a future fusion power plant. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 064003.	2.1	27
8	Development and characterization of powder metallurgically produced discontinuous tungsten fiber reinforced tungsten composites. <i>Physica Scripta</i> , 2017, T170, 014005.	2.5	23
9	On the nature of carbon embrittlement of tungsten fibers during powder metallurgical processes. <i>Fusion Engineering and Design</i> , 2019, 145, 18-22.	1.9	21
10	Materials development for new high heat-flux component mock-ups for DEMO. <i>Fusion Engineering and Design</i> , 2019, 146, 1431-1436.	1.9	21
11	Design of tungsten fiber-reinforced tungsten composites with porous matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 817, 141361.	5.6	20
12	Fracture behavior of random distributed short tungsten fiber-reinforced tungsten composites. <i>Nuclear Fusion</i> , 2019, 59, 086034.	3.5	16
13	Modeling and validation of chemical vapor deposition of tungsten for tungsten fiber reinforced tungsten composites. <i>Surface and Coatings Technology</i> , 2020, 381, 124745.	4.8	13
14	Smart first wall materials for intrinsic safety of a fusion power plant. <i>Fusion Engineering and Design</i> , 2018, 136, 878-882.	1.9	12
15	Development of tungsten fiber-reinforced tungsten with a porous matrix. <i>Physica Scripta</i> , 2020, T171, 014030.	2.5	12
16	Fiber Volume Fraction Influence on Randomly Distributed Short Fiber Tungsten Fiberâ€”Reinforced Tungsten Composites. <i>Advanced Engineering Materials</i> , 2020, 22, 1901242.	3.5	11
17	Influence of the Size Effect on the Microstructures of the DWDS- and Bridgman-Solidified Single-Crystal CMSX-4 Superalloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 76-84.	2.1	9
18	The use of tungsten yarns in the production for W_f/W. <i>Physica Scripta</i> , 2020, T171, 014061.	2.5	7

#	ARTICLE	IF	CITATIONS
19	Improving the W Coating Uniformity by a COMSOL Model-Based CVD Parameter Study for Denser Wf/W Composites. Metals, 2021, 11, 1089.	2.3	7
20	Modeling and experimental validation of a W \times W _f -fabrication by chemical vapor deposition and infiltration. Nuclear Materials and Energy, 2021, 28, 101048.	1.3	6
21	Spark Plasma Sintering Produced W-Fiber-Reinforced Tungsten Composites. , 2019, , 239-261.		5
22	Characteristics of Microstructure Evolution during FAST Joining of the Tungsten Foil Laminate. Metals, 2021, 11, 886.	2.3	4
23	Tungsten fiber reinforced tungsten (Wf/W) using yarn based textile preforms. Physica Scripta, 2021, 96, 124063.	2.5	4
24	Longitudinal and shear wave velocities in pure tungsten and tungsten fiber-reinforced tungsten composites. Physica Scripta, 2017, T170, 014024.	2.5	3