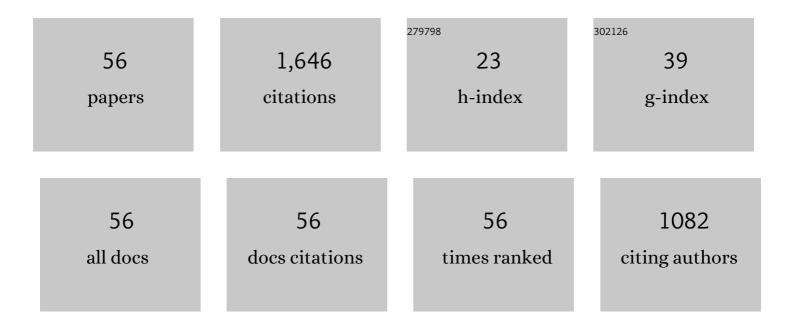
List of Publications by Year in descending order

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TILL HÃOSCHEN

#	Article	IF	CITATIONS
1	Comparison experiment on the sputtering of EUROFER, RUSFER and CLAM steels by deuterium ions. Nuclear Materials and Energy, 2022, 30, 101118.	1.3	5
2	Irradiation effects in tungsten—From surface effects to bulk mechanical properties. Nuclear Materials and Energy, 2022, 30, 101093.	1.3	5
3	Design of tungsten fiber-reinforced tungsten composites with porous matrix. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141361.	5.6	20
4	Interlayer properties of tungsten fibre-reinforced composites and their determination by different methods. Nuclear Materials and Energy, 2021, 28, 101060.	1.3	4
5	Self-consistent ion beam analysis: An approach by multi-objective optimization. Nuclear Instruments & Methods in Physics Research B, 2021, 506, 32-40.	1.4	3
6	Modeling and validation of chemical vapor deposition of tungsten for tungsten fiber reinforced tungsten composites. Surface and Coatings Technology, 2020, 381, 124745.	4.8	13
7	Advective-acoustic cycle in a shallow water standing accretion shock experiment. Physical Review E, 2020, 102, 063103.	2.1	1
8	Impact of surface enrichment and morphology on sputtering of EUROFER by deuterium. Nuclear Materials and Energy, 2020, 23, 100749.	1.3	9
9	Fiber Volume Fraction Influence on Randomly Distributed Short Fiber Tungsten Fiberâ€Reinforced Tungsten Composites. Advanced Engineering Materials, 2020, 22, 1901242.	3.5	11
10	The use of tungsten yarns in the production for W <sub> <i>f</i> </sub> /W. Physica Scripta, 2020, T171, 014061.	2.5	7
11	Development of tungsten fiber-reinforced tungsten with a porous matrix. Physica Scripta, 2020, T171, 014030.	2.5	12
12	Estimation of the fracture toughness of tungsten fibre-reinforced tungsten composites. Engineering Fracture Mechanics, 2020, 232, 107011.	4.3	21
13	Insight into single-fiber push-out test of tungsten fiber-reinforced tungsten. Composite Interfaces, 2019, 26, 107-126.	2.3	8
14	On the nature of carbon embrittlement of tungsten fibers during powder metallurgical processes. Fusion Engineering and Design, 2019, 145, 18-22.	1.9	21
15	Fracture behavior of random distributed short tungsten fiber-reinforced tungsten composites. Nuclear Fusion, 2019, 59, 086034.	3.5	16
16	Interdiffusion and phase formation at iron-tungsten interfaces. Nuclear Materials and Energy, 2019, 19, 189-194.	1.3	13
17	Production of tungsten-fibre reinforced tungsten composites by a novel continuous chemical vapour deposition process. Fusion Engineering and Design, 2019, 146, 1426-1430.	1.9	11
18	Materials development for new high heat-flux component mock-ups for DEMO. Fusion Engineering and Design, 2019, 146, 1431-1436.	1.9	21

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19	Influence of the interface strength on the mechanical properties of discontinuous tungsten fiber-reinforced tungsten composites produced by field assisted sintering technology. Composites Part A: Applied Science and Manufacturing, 2018, 107, 342-353.	7.6	68
20	Impact of heat treatment on tensile properties of 97W 2Ni 1Fe heavy alloy. Journal of Nuclear Materials, 2018, 512, 1-7.	2.7	22
21	Tungsten surface enrichment in EUROFER and Fe-W model systems studied by high-resolution time-of-flight rutherford backscattering spectroscopy. Nuclear Materials and Energy, 2018, 17, 147-151.	1.3	11
22	Study of the temperature-dependent nitrogen retention in tungsten surfaces using X-ray photoelectron spectroscopy. Nuclear Materials and Energy, 2018, 17, 48-55.	1.3	5
23	Improved pseudo-ductile behavior of powder metallurgical tungsten short fiber-reinforced tungsten (W/W). Nuclear Materials and Energy, 2018, 15, 214-219.	1.3	36
24	Results on the use of tungsten heavy alloys in the divertor of ASDEX Upgrade. Journal of Nuclear Materials, 2018, 511, 567-573.	2.7	50
25	Erosion of EUROFER steel by mass-selected deuterium ion bombardment. Nuclear Materials and Energy, 2018, 16, 114-122.	1.3	15
26	The effects of heat treatment at temperatures of 1100 °C to 1300 °C on the tensile properties of high-strength drawn tungsten fibres. Nuclear Materials and Energy, 2018, 16, 163-167.	1.3	12
27	Phase decomposition of La2NiO4+ $\hat{l}'$ under Cr- and Si-poisoning conditions. Solid State Ionics, 2018, 322, 44-53.	2.7	13
28	Textile preforms for tungsten fibre-reinforced composites. Journal of Composite Materials, 2018, 52, 3875-3884.	2.4	27
29	Tungsten fibre-reinforced composites for advanced plasma facing components. Nuclear Materials and Energy, 2017, 12, 1308-1313.	1.3	30
30	Microstructure, mechanical behaviour and fracture of pure tungsten wire after different heat treatments. International Journal of Refractory Metals and Hard Materials, 2017, 68, 29-40.	3.8	53
31	Tensile deformation behavior of tungsten fibre-reinforced tungsten composite specimens in as-fabricated state. Fusion Engineering and Design, 2017, 124, 396-400.	1.9	46
32	Tensile behaviour of drawn tungsten wire used in tungsten fibre-reinforced tungsten composites. Physica Scripta, 2017, T170, 014032.	2.5	18
33	Development and characterization of powder metallurgically produced discontinuous tungsten fiber reinforced tungsten composites. Physica Scripta, 2017, T170, 014005.	2.5	23
34	Microstructural stability of spark-plasma-sintered W f /W composite with zirconia interface coating under high-heat-flux hydrogen beam irradiation. Nuclear Materials and Energy, 2017, 13, 74-80.	1.3	4
35	Oxygen exchange kinetics of La0.6Sr0.4CoO3-δaffected by changes of the surface composition due to chromium and silicon poisoning. Solid State Ionics, 2017, 299, 26-31.	2.7	20
36	Plasma–wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. Nuclear Fusion, 2017, 57, 116041.	3.5	75

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37	Properties of drawn W wire used as high performance fibre in tungsten fibre-reinforced tungsten composite. IOP Conference Series: Materials Science and Engineering, 2016, 139, 012043.	0.6	36
38	Materials for DEMO and reactor applications—boundary conditions and new concepts. Physica Scripta, 2016, T167, 014002.	2.5	85
39	Advanced tungsten materials for plasma-facing components of DEMO and fusion power plants. Fusion Engineering and Design, 2016, 109-111, 1046-1052.	1.9	70
40	Development of tungsten fibre-reinforced tungsten composites towards their use in DEMO—potassium doped tungsten wire. Physica Scripta, 2016, T167, 014006.	2.5	77
41	Chemically deposited tungsten fibre-reinforced tungsten – The way to a mock-up for divertor applications. Nuclear Materials and Energy, 2016, 9, 75-83.	1.3	55
42	Behavior of tungsten fiber-reinforced tungsten based on single fiber push-out study. Nuclear Materials and Energy, 2016, 9, 416-421.	1.3	27
43	Interaction of deuterium plasma with sputter-deposited tungsten nitride films. Nuclear Fusion, 2016, 56, 016004.	3.5	22
44	First experiments with Cs doped Mo as surface converter for negative hydrogen ion sources. Journal of Applied Physics, 2015, 118, .	2.5	15
45	Erosion study of Fe–W binary mixed layer prepared as model system for RAFM steel. Journal of Nuclear Materials, 2015, 463, 272-275.	2.7	35
46	Enhanced toughness and stable crack propagation in a novel tungsten fibre-reinforced tungsten composite produced by chemical vapour infiltration. Physica Scripta, 2014, T159, 014031.	2.5	58
47	Implantation and erosion of nitrogen in tungsten. New Journal of Physics, 2014, 16, 093018.	2.9	42
48	Surface modification and deuterium retention in reduced activation ferritic martensitic steels exposed to low-energy, high flux D plasma and D <sub>2</sub> gas. Physica Scripta, 2014, T159, 014049.	2.5	26
49	EUROFER as wall material: Reduced sputtering yields due to W surface enrichment. Journal of Nuclear Materials, 2014, 454, 1-6.	2.7	67
50	In situ synchrotron tomography estimation of toughening effect by semi-ductile fibre reinforcement in a tungsten-fibre-reinforced tungsten composite system. Acta Materialia, 2013, 61, 7060-7071.	7.9	105
51	Thermal stability of the engineered interfaces in Wf/W composites. Journal of Materials Science, 2012, 47, 4706-4715.	3.7	18
52	Shear debonding behavior of a carbon-coated interface in a tungsten fiber-reinforced tungsten matrix composite. Journal of Nuclear Materials, 2011, 417, 472-476.	2.7	37
53	Interfacial fracture behavior of tungsten wire/tungsten matrix composites with copper-coated interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1623-1629.	5.6	46
54	Feasibility study of a tungsten wire-reinforced tungsten matrix composite with ZrOx interfacial coatings. Composites Science and Technology, 2010, 70, 1482-1489.	7.8	69

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55	Particle generation in pulsed plasmas. Plasma Devices and Operations, 2008, 16, 11-24.	0.6	1
56	Powder Metallurgical Tungsten Fiber-Reinforced Tungsten. Materials Science Forum, 0, 825-826, 125-133.	0.3	26