

# Xing Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

320  
citations

759233

12  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-induced segregation in a ceramic. <i>Nature Materials</i> , 2020, 19, 992-998.	27.5	47
2	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. <i>Acta Materialia</i> , 2019, 181, 519-529.	7.9	40
3	Impact of carbon nanotube defects on fracture mechanisms in ceramic nanocomposites. <i>Carbon</i> , 2017, 115, 402-408.	10.3	36
4	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. <i>Nature Communications</i> , 2020, 11, 1022.	12.8	23
5	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. <i>Materialia</i> , 2020, 9, 100603.	2.7	22
6	Effects of Fe concentration on helium bubble formation in NiFeCr single-phase concentrated solid solution alloys. <i>Materialia</i> , 2019, 5, 100183.	2.7	21
7	Effect of surface strain on oxygen adsorption on Zr (0001) surface. <i>Journal of Nuclear Materials</i> , 2014, 445, 1-6.	2.7	19
8	High toughness carbon-nanotube-reinforced ceramics via ion-beam engineering of interfaces. <i>Carbon</i> , 2020, 163, 169-177.	10.3	19
9	The Multiple Roles of Small-Angle Tilt Grain Boundaries in Annihilating Radiation Damage in SiC. <i>Scientific Reports</i> , 2017, 7, 42358.	3.3	15
10	Defect evolution in Ni and NiCoCr by in situ 2.8 MeV Au irradiation. <i>Journal of Nuclear Materials</i> , 2019, 523, 502-509.	2.7	15
11	Origin of increased helium density inside bubbles in Ni alloys. <i>Scripta Materialia</i> , 2021, 191, 1-6.	5.2	14
12	Evidence for cascade overlap and grain boundary enhanced amorphization in silicon carbide irradiated with Kr ions. <i>Acta Materialia</i> , 2015, 99, 7-15.	7.9	13
13	High radiation tolerance of an ultrastrong nanostructured NiCoCr alloy with stable dispersed nanooxides and fine grain structure. <i>Journal of Nuclear Materials</i> , 2021, 557, 153316.	2.7	11
14	Continuum model for hydrogen pickup in zirconium alloys of LWR fuel cladding. <i>Journal of Applied Physics</i> , 2017, 121, 135101.	2.5	8
15	In-situ irradiation-induced studies of grain growth kinetics of nanocrystalline UO <sub>2</sub> . <i>Acta Materialia</i> , 2022, 231, 117856.	7.9	7
16	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1558-1559.	0.4	6
17	Understanding effects of chemical complexity on helium bubble formation in Ni-based concentrated solid solution alloys based on elemental segregation measurements. <i>Journal of Nuclear Materials</i> , 2022, 569, 153902.	2.7	4
18	Morphology of Amorphous Pockets in SiC Irradiated with 1 MeV Kr Ions. <i>Microscopy and Microanalysis</i> , 2014, 20, 1830-1831.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Deep Learning-Based Workflow for Analyzing Helium Bubbles in Transmission Electron Microscopy Images. <i>Microscopy and Microanalysis</i> , 2021, 27, 2132-2133.	0.4	0