

# Miaomiao Jin

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Modeling injected interstitial effects on void swelling in self-ion irradiation experiments. Journal of Nuclear Materials, 2016, 471, 200-207.	2.7	61
2	Radiation damage reduction by grain-boundary biased defect migration in nanocrystalline Cu. Acta Materialia, 2018, 155, 410-417.	7.9	48
3	Superconducting Cu/Nb nanolaminate by coded accumulative roll bonding and its helium damage characteristics. Acta Materialia, 2020, 197, 212-223.	7.9	41
4	Thermodynamic mixing energy and heterogeneous diffusion uncover the mechanisms of radiation damage reduction in single-phase Ni-Fe alloys. Acta Materialia, 2018, 147, 16-23.	7.9	32
5	Predicting the onset of void swelling in irradiated metals with machine learning. Journal of Nuclear Materials, 2019, 523, 189-197.	2.7	23
6	Multiphysics modeling of two-phase film boiling within porous corrosion deposits. Journal of Computational Physics, 2016, 316, 504-518.	3.8	22
7	Achieving exceptional radiation tolerance with crystalline-amorphous nanocrystalline structures. Acta Materialia, 2020, 186, 587-596.	7.9	18
8	Mechanisms of grain boundary migration and growth in nanocrystalline metals under irradiation. Scripta Materialia, 2019, 163, 66-70.	5.2	17
9	Breaking the power law: Multiscale simulations of self-ion irradiated tungsten. Journal of Nuclear Materials, 2018, 504, 33-40.	2.7	11
10	Systematic analysis on the primary radiation damage in Th <sub>1-x</sub> U <sub>x</sub> O <sub>2</sub> fluorite systems. Journal of Nuclear Materials, 2020, 536, 152144.	2.7	11
11	Dislocation loop evolution in Kr <sup>+</sup> irradiated ThO <sub>2</sub> . Journal of the American Ceramic Society, 2022, 105, 5419-5435.	3.8	11
12	Hybrid diffusive-displacive helium outgassing in Cu/Nb multilayer composites. Scripta Materialia, 2021, 194, 113706.	5.2	10
13	Assessment of empirical interatomic potential to predict thermal conductivity in ThO <sub>2</sub> and UO <sub>2</sub> . Journal of Physics Condensed Matter, 2021, 33, 275402.	1.8	9
14	Dissociated prismatic loop punching by bubble growth in FCC metals. Scientific Reports, 2021, 11, 12839.	3.3	8
15	Impact of small defects and dislocation loops on phonon scattering and thermal transport in ThO <sub>2</sub> . Journal of Nuclear Materials, 2022, 566, 152758.	2.7	5
16	Defect dynamics in U, Mo, and their alloys. Journal of Nuclear Materials, 2021, 549, 152893.	2.7	3
17	Revealing the Strain Effect on Radiation Response of Amorphous/Crystalline Cu-Zr Laminate. Jom, 2020, 72, 868-876.	1.9	1