

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 | In-situ irradiation-induced studies of grain growth kinetics of nanocrystalline UO ₂ . Acta Materialia, 2022, 231, 117856. | 7.9 | 7 |
| 2 | Understanding effects of chemical complexity on helium bubble formation in Ni-based concentrated solid solution alloys based on elemental segregation measurements. Journal of Nuclear Materials, 2022, 569, 153902. | 2.7 | 4 |
| 3 | Origin of increased helium density inside bubbles in Ni-based concentrated solid solution alloys. Scripta Materialia, 2021, 191, 1-6. | 5.2 | 14 |
| 4 | Deep Learning-Based Workflow for Analyzing Helium Bubbles in Transmission Electron Microscopy Images. Microscopy and Microanalysis, 2021, 27, 2132-2133. | 0.4 | 0 |
| 5 | High radiation tolerance of an ultrastrong nanostructured NiCoCr alloy with stable dispersed nanooxides and fine grain structure. Journal of Nuclear Materials, 2021, 557, 153316. | 2.7 | 11 |
| 6 | From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. Materialia, 2020, 9, 100603. | 2.7 | 22 |
| 7 | High toughness carbon-nanotube-reinforced ceramics via ion-beam engineering of interfaces. Carbon, 2020, 163, 169-177. | 10.3 | 19 |
| 8 | Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. Nature Communications, 2020, 11, 1022. | 12.8 | 23 |
| 9 | Radiation-induced segregation in a ceramic. Nature Materials, 2020, 19, 992-998. | 27.5 | 47 |
| 10 | Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. Microscopy and Microanalysis, 2019, 25, 1558-1559. | 0.4 | 6 |
| 11 | Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. Acta Materialia, 2019, 181, 519-529. | 7.9 | 40 |
| 12 | Defect evolution in Ni and NiCoCr by in situ 2.8 MeV Au irradiation. Journal of Nuclear Materials, 2019, 523, 502-509. | 2.7 | 15 |
| 13 | Effects of Fe concentration on helium bubble formation in NiFeCr single-phase concentrated solid solution alloys. Materialia, 2019, 5, 100183. | 2.7 | 21 |
| 14 | Impact of carbon nanotube defects on fracture mechanisms in ceramic nanocomposites. Carbon, 2017, 115, 402-408. | 10.3 | 36 |
| 15 | The Multiple Roles of Small-Angle Tilt Grain Boundaries in Annihilating Radiation Damage in SiC. Scientific Reports, 2017, 7, 42358. | 3.3 | 15 |
| 16 | Continuum model for hydrogen pickup in zirconium alloys of LWR fuel cladding. Journal of Applied Physics, 2017, 121, 135101. | 2.5 | 8 |
| 17 | Evidence for cascade overlap and grain boundary enhanced amorphization in silicon carbide irradiated with Kr ions. Acta Materialia, 2015, 99, 7-15. | 7.9 | 13 |
| 18 | Morphology of Amorphous Pockets in SiC Irradiated with 1 MeV Kr Ions. Microscopy and Microanalysis, 2014, 20, 1830-1831. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of surface strain on oxygen adsorption on Zr (0001) surface. Journal of Nuclear Materials, 2014, 445, 1-6. | 2.7 | 19 |