

Peng Xu

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

506
citations

687363

13
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

479
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Development of cold spray chromium coatings for improved accident tolerant zirconium-alloy cladding. <i>Journal of Nuclear Materials</i> , 2019, 519, 247-254. | 2.7 | 79 |
| 2 | Evaluation of steam corrosion and water quenching behavior of zirconium-silicide coated LWR fuel claddings. <i>Journal of Nuclear Materials</i> , 2018, 499, 256-267. | 2.7 | 54 |
| 3 | Characterization of structural defects in nuclear graphite IG-110 and NBG-18. <i>Journal of Nuclear Materials</i> , 2014, 446, 193-199. | 2.7 | 53 |
| 4 | Development of Cold Spray Coatings for Accident-Tolerant Fuel Cladding in Light Water Reactors. <i>Jom</i> , 2018, 70, 198-202. | 1.9 | 52 |
| 5 | Synthesis and sintering of UN-UO ₂ fuel composites. <i>Journal of Nuclear Materials</i> , 2015, 466, 745-754. | 2.7 | 48 |
| 6 | Magnetron sputter deposition of zirconium-silicide coating for mitigating high temperature oxidation of zirconium-alloy. <i>Surface and Coatings Technology</i> , 2017, 316, 30-38. | 4.8 | 40 |
| 7 | Quantifying the three-dimensional damage and stress redistribution mechanisms of braided SiC/SiC composites by in situ volumetric digital image correlation. <i>Scripta Materialia</i> , 2017, 130, 238-241. | 5.2 | 37 |
| 8 | Inhibition effect and mechanism of polyacrylamide for steel corrosion in simulated concrete pore solution. <i>Construction and Building Materials</i> , 2020, 259, 120425. | 7.2 | 34 |
| 9 | Influence of sulfate salt type on passive film of steel in simulated concrete pore solution. <i>Construction and Building Materials</i> , 2019, 223, 352-359. | 7.2 | 32 |
| 10 | Phase and defect evolution in uranium-nitrogen-oxygen system under irradiation. <i>Acta Materialia</i> , 2021, 208, 116778. | 7.9 | 21 |
| 11 | Nanocrystalline diamond protects Zr cladding surface against oxygen and hydrogen uptake: Nuclear fuel durability enhancement. <i>Scientific Reports</i> , 2017, 7, 6469. | 3.3 | 16 |
| 12 | Zr alloy protection against high-temperature oxidation: Coating by a double-layered structure with active and passive functional properties. <i>Corrosion Science</i> , 2020, 163, 108270. | 6.6 | 15 |
| 13 | Unveiling hermetic failure of ceramic tubes by digital image correlation and acoustic emission. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2146-2159. | 3.8 | 13 |
| 14 | Purification effect of the methods used for the preparation of the ultra-high purity graphite. <i>Diamond and Related Materials</i> , 2021, 120, 108704. | 3.9 | 12 |