Yi Xie

List of Publications by Year in descending order

30 papers	349 citations	840776 11 h-index	839539 18 g-index
30 all docs	30 docs citations	30 times ranked	234 citing authors

#	Article	IF	Citations
1	Chemical interactions between neodymium and advanced stainless steels. Journal of Nuclear Materials, 2022, 559, 153451.	2.7	0
2	Phase evolution of U-Zr system in a thermal cycling neutron diffraction experiment: as-cast U-35Zr and U-50Zr. Journal of Nuclear Materials, 2022, 564, 153681.	2.7	3
3	Out-of-pile and postirradiated examination of lanthanide and lanthanide-palladium interactions for metallic fuel. Journal of Nuclear Materials, 2021, 544, 152727.	2.7	15
4	Microstructure Evolution of Uâ€“Zr System in A Thermal Cycling Neutron Diffraction Experiment: Extruded Uâ€“10Zr (wt. %). Journal of Nuclear Materials, 2021, 544, 152665.	2.7	12
5	Solid-state phase transitions of two quaternary metallic fuel alloys (U-2.5Mo-2.5Ti-5.0Zr and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.7	2
6	Interactions and immobilization of lanthanides with dopants in uranium-based metallic fuels. Journal of Nuclear Materials, 2020, 540, 152372.	2.7	9
7	XRD and SEM/EDS characterization of two quaternary fuel alloys (U-2.5Mo-2.5Ti-5.0Zr and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.4	11
8	Experimental assessment of antimony (Sb) in pure uranium for immobilizing fission product lanthanides. Journal of Nuclear Materials, 2020, 534, 152135.	2.7	3
9	Efficient computational search for lanthanide-binding additive dopants for advanced U-Zr based fuels. Materialia, 2020, 10, 100653.	2.7	3
10	Microstructure study of Uâ€“35 wt.% Zr alloy after quick annealing at 650 Â°C. Journal of Materials Research, 2020, 35, 1095-1102.	2.6	2
11	Revealing 3D Morphological and Chemical Evolution Mechanisms of Metals in Molten Salt by Multimodal Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 17321-17333.	8.0	20
12	Microstructure and diffusion behavior of uranium fuel with minor additives. Journal of Nuclear Materials, 2020, 535, 152200.	2.7	2
13	Experimental Investigation of FCCI Using Diffusion Couple Test Between UZr Fuel with Sb Additive and Cladding. Nuclear Science and Engineering, 2020, 194, 462-476.	1.1	5
14	Diffusion behaviors between metallic fuel alloys with Pd addition and Fe. Journal of Nuclear Materials, 2019, 525, 111-124.	2.7	10
15	Microstructural characterization of annealed U-20Pu-10Zr-3.86Pd and U-20Pu-10Zr-3.86Pd-4.3Ln. Journal of Nuclear Materials, 2019, 518, 287-297.	2.7	9
16	Aluminum corrosion in reactor containment environment following a loss of coolant accident (LOCA): High-temperature flow loop tests. Corrosion Science, 2019, 151, 122-131.	6.6	3
17	Aluminum alloy corrosion in boronâ€containing alkaline solutions. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 810-819.	1.5	2
18	Diffusion behavior of lanthanide-additive compounds (Ce4Sb3, Ce2Sb, and CeTe) against HT9 and Fe. Materials Characterization, 2019, 150, 107-117.	4.4	8

#	Article	IF	Citations
19	Assessment of Te as a U-Zr fuel additive to mitigate fuel-cladding chemical interactions. Journal of Nuclear Materials, 2019, 513, 175-184.	2.7	14
20	Multi-state Markov modeling of pitting corrosion in stainless steel exposed to chloride-containing environment. Reliability Engineering and System Safety, 2018, 172, 239-248.	8.9	14
21	Thermodynamic stability studies of Ce-Sb compounds with Fe. Journal of Nuclear Materials, 2018, 499, 440-445.	2.7	9
22	Characterization of U-Zr fuel with alloying additive Sb for immobilizing fission product lanthanides. Journal of Nuclear Materials, 2018, 498, 332-340.	2.7	29
23	Lanthanide migration and immobilization in metallic fuels. Progress in Nuclear Energy, 2018, 109, 233-238.	2.9	15
24	Characterization of U-10Zr-2Sn-2Sb and U-10Zr-2Sn-2Sb-4Ln to assess Sn+Sb as a mixed additive system to bind lanthanides. Journal of Nuclear Materials, 2018, 510, 210-218.	2.7	19
25	Spent Fuel Interim Dry Storage System and Chloride-Induced Stress Corrosion Cracking. Modern Nuclear Energy Analysis Methods, 2018, , 177-236.	0.1	0
26	Corrosion behaviour of stainless steel exposed to highly concentrated chloride solutions. Corrosion Engineering Science and Technology, 2017, 52, 283-293.	1.4	10
27	Effects of flow, Si inhibition, and concurrent corrosion of dissimilar metals on the corrosion of aluminium in the environment following a loss-of-coolant accident. Corrosion Science, 2017, 128, 100-109.	6.6	16
28	Corrosion and deposition on the secondary circuit of steam generators. Journal of Nuclear Science and Technology, 2016, 53, 1455-1466.	1.3	19
29	Characterization of stress corrosion cracks in Ni-based weld alloys 52, 52M and 152 grown in high-temperature water. Materials Characterization, 2016, 112, 87-97.	4.4	34
30	Chloride-induced stress corrosion cracking of used nuclear fuel welded stainless steel canisters: A review. Journal of Nuclear Materials, 2015, 466, 85-93.	2.7	51