Xianglong Guo

List of Publications by Year in descending order

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38	1,187	394421	377865
papers	citations	19 h-index	34 g-index

38	38	38	556
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing the long-term oxidation and carburization mechanism of 310S SS and Alloy 800H exposed to supercritical carbon dioxide. Materials Characterization, 2022, 183, 111603.	4.4	11
2	Effects of cold work on the corrosion behavior of Alloy 800H exposed to aerated supercritical water. Journal of Nuclear Materials, 2022, 559, 153408.	2.7	7
3	Understanding the fretting corrosion mechanism of zirconium alloy exposed to high temperature high pressure water. Corrosion Science, 2022, 202, 110300.	6.6	17
4	Understanding the stress corrosion cracking growth mechanism of a cold worked alumina-forming austenitic steel in supercritical carbon dioxide. Corrosion Science, 2022, 199, 110179.	6.6	12
5	Investigations on the SCC initiation behavior of cold worked 316ÂL in high temperature oxygenated water at constant loads. Corrosion Science, 2022, 203, 110336.	6.6	9
6	On the role of Al/Nb in the SCC of AFA stainless steels in supercritical CO2. Npj Materials Degradation, 2022, 6, .	5.8	5
7	Effect of intergranular carbides on the cracking behavior of cold worked alloy 690 in subcritical and supercritical water. Corrosion Science, 2020, 164, 108313.	6.6	17
8	Progress in studying the fretting wear/corrosion of nuclear steam generator tubes. Annals of Nuclear Energy, 2020, 144, 107556.	1.8	36
9	The gradual disappearance of yield plateau in Zrâ€“Snâ€“Nbâ€“Feâ€“Mo alloy by the trace addition of Cr and V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 407-414.	5.6	6
10	Variation of microstructural features on the tensile property and corrosion resistance of Zr-Sn-Nb-Fe-Cu alloy. Materials Characterization, 2019, 151, 84-95.	4.4	6
11	Comparison of the stress corrosion cracking growth behavior of cold worked Alloy 690 in subcritical and supercritical water. Journal of Nuclear Materials, 2019, 520, 235-244.	2.7	20
12	Effect of micro-arc oxidation on fretting wear behavior of zirconium alloy exposed to high temperature water. Wear, 2019, 424-425, 53-61.	3.1	36
13	Characterizing the effects of in-situ sensitization on stress corrosion cracking of austenitic steels in supercritical water. Scripta Materialia, 2019, 158, 66-70.	5.2	14
14	A study on the corrosion and stress corrosion cracking susceptibility of 310-ODS steel in supercritical water. Journal of Nuclear Materials, 2019, 514, 56-65.	2.7	28
15	Corrosion resistance of candidate cladding materials for supercritical water reactor. Annals of Nuclear Energy, 2019, 127, 351-363.	1.8	42
16	Fretting wear behavior of zirconium alloy in B-Li water at 300ÂÂ°C. Journal of Nuclear Materials, 2018, 499, 401-409.	2.7	26
17	Effect of temperature on fretting wear behavior and mechanism of alloy 690 in water. Nuclear Engineering and Design, 2018, 327, 51-60.	1.7	53
18	Corrosion behavior of alumina-forming and oxide dispersion strengthened austenitic 316 stainless steel in supercritical water. Corrosion Science, 2018, 138, 297-306.	6.6	55

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19	Fretting wear of alloy 690 tube mated with different materials in high temperature water. Wear, 2018, 400-401, 119-126.	3.1	30
20	Effect of cold work on the stress corrosion cracking behavior of Alloy 690 in supercritical water environment. Journal of Nuclear Materials, 2018, 498, 117-128.	2.7	21
21	Stress Corrosion Crack Growth Behavior of Type 310S Stainless Steel in Supercritical Water. Corrosion, 2018, 74, 776-787.	1.1	17
22	Time-dependent wear behavior of alloy 690 tubes fretted against 405 stainless steel in high-temperature argon and water. Wear, 2018, 414-415, 194-201.	3.1	27
23	Corrosion and Stress Corrosion Cracking Susceptibility of Type 347H Stainless Steel in Supercritical Water. Corrosion, 2018, 74, 83-95.	1.1	16
24	Fracture toughness of type 316LN stainless steel welded joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 107-114.	5.6	14
25	Effects of extrusion ratio on microstructural evolution and mechanical behavior of in situ synthesized Ti-6Al-4V composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 155-163.	5.6	35
26	Corrosion behavior of oxide dispersion strengthened ferritic steels in supercritical water. Journal of Nuclear Materials, 2017, 486, 1-10.	2.7	15
27	Characterizing the effect of creep on stress corrosion cracking of cold worked Alloy 690 in supercritical water environment. Journal of Nuclear Materials, 2017, 492, 32-40.	2.7	28
28	A research on the corrosion and stress corrosion cracking susceptibility of 316L stainless steel exposed to supercritical water. Corrosion Science, 2017, 127, 157-167.	6.6	55
29	Effects of sliding amplitude and normal load on the fretting wear behavior of alloy 690 tube exposed to high temperature water. Tribology International, 2017, 116, 155-163.	5.9	71
30	Effects of zinc injection on stress corrosion cracking of cold worked austenitic stainless steel in high-temperature water environments. Scripta Materialia, 2017, 140, 50-54.	5.2	22
31	Effect of extrusion dies angle on the microstructure and properties of (TiB+TiC)/Ti6Al4V in situ titanium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 317-325.	5.6	48
32	Morphology evolution of Î± phase in investment cast titanium matrix composites with B4C additions. Journal of Materials Science, 2015, 50, 5674-5683.	3.7	17
33	Microstructure and mechanical properties of investment casted titanium matrix composites with B4C additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 366-373.	5.6	97
34	Effect of B4C on the Microstructure and Mechanical Properties of As-Cast TiB+TiC/TC4 Composites. Acta Metallurgica Sinica (English Letters), 2014, 27, 205-210.	2.9	19
35	A research on the creep properties of titanium matrix composites rolled with different deformation degrees. Materials & Design, 2014, 63, 50-55.	5.1	16
36	The Influence of B₄C on the Fluidity of Ti-6Al-4V-xB₄C Composites. Materials Transactions, 2014, 55, 1367-1371.	1.2	3

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37	Texture Evolution of Hot-Rolled, Near-Î±-Based Titanium Matrix Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3257-3263.	2.2	6
38	Effects of degree of deformation on the microstructure, mechanical properties and texture of hybrid-reinforced titanium matrix composites. Acta Materialia, 2012, 60, 2656-2667.	7.9	230