Yulai Xu

List of Publications by Year in descending order

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29	669	567281 15	580821 25
papers	citations	h-index	g-index

29	29	29	536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decreased Ti/Al ratio modifies the precipitate behavior of Cr23C6 and improves long-term stress-rupture life. Journal of Alloys and Compounds, 2021, 853, 157303.	5.5	4
2	Dual-effects of 6â€¯T strong magnetic field on interdiffusion behavior of Fe-FeSi diffusion couple. Materials Characterization, 2019, 151, 280-285.	4.4	3
3	Improved mechanical properties of aluminum modified ultra-pure 429 ferritic stainless steels after welding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 210-217.	5.6	14
4	Internal oxidation behaviour of Fe-Mn-Al-C duplex light-weight steels with good combination of strength and ductility. Corrosion Science, 2017, 120, 148-157.	6.6	13
5	Strengthening behaviors of V and W modified Cr19 series duplex stainless steels with transformation induced plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 134-141.	5.6	3
6	Insights into the role of grain refinement on high-temperature initial oxidation phase transformation and oxides evolution in high aluminium Fe-Mn-Al-C duplex lightweight steel. Corrosion Science, 2017, 126, 197-207.	6.6	14
7	Evolutions of Microstructure and Properties During Cold Rolling of 19Cr Duplex Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5037-5048.	2.2	7
8	Effect of static magnetic field on microstructure and interdiffusion behavior of Fe/Feâ€“Si alloy diffusion couple. Journal of Alloys and Compounds, 2015, 645, 369-375.	5.5	13
9	Improved oxidation resistance of 15 wt.% Cr ferritic stainless steels containing 0.08â€“2.45 wt.% Al at 1000 Â°C in air. Corrosion Science, 2015, 100, 311-321.	6.6	25
10	Nitrogen-induced selective high-temperature internal oxidation behavior in duplex stainless steels 19Crâ€“10Mnâ€“0.3Niâ€“ x N. Corrosion Science, 2015, 98, 737-747.	6.6	14
11	Self-repairing behavior of oxidation diffusion layer and phase transformation mechanism during tensile test of 19Cr duplex stainless steels with various Mn content. Corrosion Science, 2015, 90, 535-543.	6.6	17
12	Effect of duplex grain size distributions on long term stress-rupture life at 600 Â°C/450 MPa of Nimonic 80A. Materials & Design, 2015, 65, 840-846.	5.1	6
13	Effect of aluminum on microstructure, mechanical properties and pitting corrosion resistance of ultra-pure 429 ferritic stainless steels. Materials & Design, 2015, 65, 682-689.	5.1	56
14	Effect of heat treatment on transformation-induced plasticity of economical Cr19 duplex stainless steel. Materials & Design, 2014, 56, 959-965.	5.1	62
15	A new resource-saving, low chromium and low nickel duplex stainless steel 15Crâ€“xAlâ€“2Niâ€“yMn. Materials & Design, 2014, 53, 43-50.	5.1	28
16	Novel Cu-bearing economical 21Cr duplex stainless steels. Materials & Design, 2013, 46, 758-765.	5.1	27
17	Strengthening behavior of Nb in the modified Nimonic 80A. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 27-40.	5.6	22
18	Microstructure evolution and stress-rupture properties of Nimonic 80A after various heat treatments. Materials & Design, 2013, 47, 218-226.	5.1	27

#	Article	IF	Citations
19	Improvement of stress-rupture life of GTD-111 by second solution heat treatment. Materials & Design, 2013, 45, 308-315.	5.1	23
20	Effects of heat treatments on the microstructure and mechanical properties of Rene 80. Materials & Design, 2013, 43, 66-73.	5.1	45
21	Oxidation induced phase transformation of duplex stainless steel 25Crâ€“10Mnâ€“2Niâ€“3Moâ€“0.8Wâ€“0.8Cuâ€“0.5N. Corrosion Science, 2012, 55, 233-237.	6.6	13
22	Strengthening behavior of Al and Ti elements at room temperature and high temperature in modified Nimonic 80A. Materials Chemistry and Physics, 2012, 134, 706-715.	4.0	16
23	Relationship between Ti/Al ratio and stress-rupture properties in nickel-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 544, 48-53.	5.6	52
24	Improvement of Stress-rupture Life for Modified-HR6W Austenitic Stainless Steel. Journal of Materials Science and Technology, 2011, 27, 1059-1064.	10.7	5
25	Evolution of microstructure and mechanical properties of Ti modified superalloy Nimonic 80A. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 315-326.	5.6	36
26	Strengthening mechanisms of carbon in modified nickel-based superalloy Nimonic 80A. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4600-4607.	5.6	46
27	Growth of creep life of type-347H austenitic stainless steel by micro-alloying elements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 643-649.	5.6	13
28	High-temperature oxidation of duplex stainless steels S32101 and S32304 in air and simulated industrial reheating atmosphere. Corrosion Science, 2010, 52, 2846-2854.	6.6	32
29	A new resource-saving, high manganese and nitrogen super duplex stainless steel 25Crâ€“2Niâ€“3Moâ€“xMnâ€“N. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 245-251.	5.6	33