

Yulai Xu

List of Publications by Year in descending order

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29
papers

669
citations

567281

15
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of heat treatment on transformation-induced plasticity of economical Cr19 duplex stainless steel. <i>Materials & Design</i> , 2014, 56, 959-965.	5.1	62
2	Effect of aluminum on microstructure, mechanical properties and pitting corrosion resistance of ultra-pure 429 ferritic stainless steels. <i>Materials & Design</i> , 2015, 65, 682-689.	5.1	56
3	Relationship between Ti/Al ratio and stress-rupture properties in nickel-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 544, 48-53.	5.6	52
4	Strengthening mechanisms of carbon in modified nickel-based superalloy Nimonic 80A. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4600-4607.	5.6	46
5	Effects of heat treatments on the microstructure and mechanical properties of Rene 80. <i>Materials & Design</i> , 2013, 43, 66-73.	5.1	45
6	Evolution of microstructure and mechanical properties of Ti modified superalloy Nimonic 80A. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 315-326.	5.6	36
7	A new resource-saving, high manganese and nitrogen super duplex stainless steel 25Cr-2Ni-3Mo-xMn-N. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 527, 245-251.	5.6	33
8	High-temperature oxidation of duplex stainless steels S32101 and S32304 in air and simulated industrial reheating atmosphere. <i>Corrosion Science</i> , 2010, 52, 2846-2854.	6.6	32
9	A new resource-saving, low chromium and low nickel duplex stainless steel 15Cr-xAl-2Ni-yMn. <i>Materials & Design</i> , 2014, 53, 43-50.	5.1	28
10	Novel Cu-bearing economical 21Cr duplex stainless steels. <i>Materials & Design</i> , 2013, 46, 758-765.	5.1	27
11	Microstructure evolution and stress-rupture properties of Nimonic 80A after various heat treatments. <i>Materials & Design</i> , 2013, 47, 218-226.	5.1	27
12	Improved oxidation resistance of 15 wt.% Cr ferritic stainless steels containing 0.08-2.45 wt.% Al at 1000 °C in air. <i>Corrosion Science</i> , 2015, 100, 311-321.	6.6	25
13	Improvement of stress-rupture life of GTD-111 by second solution heat treatment. <i>Materials & Design</i> , 2013, 45, 308-315.	5.1	23
14	Strengthening behavior of Nb in the modified Nimonic 80A. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 27-40.	5.6	22
15	Self-repairing behavior of oxidation diffusion layer and phase transformation mechanism during tensile test of 19Cr duplex stainless steels with various Mn content. <i>Corrosion Science</i> , 2015, 90, 535-543.	6.6	17
16	Strengthening behavior of Al and Ti elements at room temperature and high temperature in modified Nimonic 80A. <i>Materials Chemistry and Physics</i> , 2012, 134, 706-715.	4.0	16
17	Nitrogen-induced selective high-temperature internal oxidation behavior in duplex stainless steels 19Cr-10Mn-0.3Ni-xN. <i>Corrosion Science</i> , 2015, 98, 737-747.	6.6	14
18	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. <i>Corrosion Science</i> , 2017, 126, 197-207.	6.6	14

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19	Improved mechanical properties of aluminum modified ultra-pure 429 ferritic stainless steels after welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 210-217.	5.6	14
20	Growth of creep life of type-347H austenitic stainless steel by micro-alloying elements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 643-649.	5.6	13
21	Oxidation induced phase transformation of duplex stainless steel 25Cr-10Mn-2Ni-3Mo-0.8W-0.8Cu-0.5N. <i>Corrosion Science</i> , 2012, 55, 233-237.	6.6	13
22	Effect of static magnetic field on microstructure and interdiffusion behavior of Fe/Fe-Si alloy diffusion couple. <i>Journal of Alloys and Compounds</i> , 2015, 645, 369-375.	5.5	13
23	Internal oxidation behaviour of Fe-Mn-Al-C duplex light-weight steels with good combination of strength and ductility. <i>Corrosion Science</i> , 2017, 120, 148-157.	6.6	13
24	Evolutions of Microstructure and Properties During Cold Rolling of 19Cr Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5037-5048.	2.2	7
25	Effect of duplex grain size distributions on long term stress-rupture life at 600 °C/450 MPa of Nimonic 80A. <i>Materials & Design</i> , 2015, 65, 840-846.	5.1	6
26	Improvement of Stress-rupture Life for Modified-HR6W Austenitic Stainless Steel. <i>Journal of Materials Science and Technology</i> , 2011, 27, 1059-1064.	10.7	5
27	Decreased Ti/Al ratio modifies the precipitate behavior of Cr23C6 and improves long-term stress-rupture life. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157303.	5.5	4
28	Strengthening behaviors of V and W modified Cr19 series duplex stainless steels with transformation induced plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 134-141.	5.6	3
29	Dual-effects of 6T strong magnetic field on interdiffusion behavior of Fe-FeSi diffusion couple. <i>Materials Characterization</i> , 2019, 151, 280-285.	4.4	3