Hong-Yu Qi

List of Publications by Year
in descending order

32	391	759233 12	794594 19
papers	citations	h-index	g-index

32	32	32	277
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of high-temperature hot corrosion on the low cycle fatigue behavior of a directionally solidified nickel-base superalloy. International Journal of Fatigue, 2015, 70, 106-113.	5.7	41
2	Experimental investigation on low cycle fatigue and creepâ€“fatigue interaction of DZ125 in different dwell time at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 233-238.	5.6	40
3	Numerical investigation on the cracking behaviors of thermal barrier coating system under different thermal cycle loading waveforms. Surface and Coatings Technology, 2018, 349, 166-176.	4.8	37
4	Numerical study on the competitive cracking behavior in TC and interface for thermal barrier coatings under thermal cycle fatigue loading. Surface and Coatings Technology, 2019, 358, 850-857.	4.8	36
5	Tiâ€“6Alâ€“4V welded joints via electron beam welding: Microstructure, fatigue properties, and fracture behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 225-231.	5.6	30
6	Effect of MCrAlY coating on the low-cycle fatigue behavior of a directionally solidified nickel-base superalloy at different temperatures. International Journal of Fatigue, 2015, 75, 126-134.	5.7	23
7	Measurement of Young's Modulus and Poisson's Ratio of Thermal Barrier Coatings. Chinese Journal of Aeronautics, 2005, 18, 180-184.	5.3	19
8	The bioâ€response of osteocytes and its regulation on osteoblasts under vibration. Cell Biology International, 2016, 40, 397-406.	3.0	19
9	Effect of interface diffusion on low-cycle fatigue behaviors of MCrAlY coated single crystal superalloys. International Journal of Fatigue, 2020, 137, 105660.	5.7	16
10	Influence of MCrAlY coating on low-cycle fatigue behavior of a directionally solidified nickel-based superalloy in hot corrosive environment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 57-64.	5.6	15
11	Influence of the different salt deposits on the fatigue behavior of a directionally solidified nickel-based superalloy. International Journal of Fatigue, 2016, 84, 91-96.	5.7	14
12	Effect of high temperature on compression property and deformation recovery of ceramic fiber reinforced silica aerogel composites. Science China Technological Sciences, 2017, 60, 1681-1691.	4.0	14
13	The effect of off-axis angles on the mesoscale deformation response and failure behavior of an orthotropic textile carbon-epoxy composite. Composite Structures, 2018, 206, 952-959.	5.8	13
14	Oxidation-induced damage of an uncoated and coated nickel-based superalloy under simulated gas environment. Rare Metals, 2018, 37, 204-209.	7.1	9
15	Low-cycle fatigue behavior of a directionally solidified Ni-based superalloy subjected to gas hot corrosion pre-exposure. Rare Metals, 2019, 38, 227-232.	7.1	9
16	Effect of bond-coat surface roughness on failure mechanism and lifetime of air plasma spraying thermal barrier coatings. Science China Technological Sciences, 2019, 62, 989-995.	4.0	7
17	Experimental study and numerical modeling of the damage evolution of thermal barrier coating systems under tension. Science China Technological Sciences, 2018, 61, 1882-1888.	4.0	6
18	High-temperature hot-corrosion effects on the creepâ€“fatigue behavior of a directionally solidified nickel-based superalloy: Mechanism and lifetime prediction. International Journal of Damage Mechanics, 2020, 29, 798-809.	4.2	6

#	Article	IF	Citations
19	Low-cycle fatigue lifetime estimation of Tiâ€“6Alâ€“4V welded joints by a continuum damage mechanics model. Rare Metals, 2016, 35, 299-302.	7.1	5
20	Fatigue behavior of uncoated and MCrAlY-coated DS nickel-based superalloys pre-exposed in hot corrosion condition. Rare Metals, 2018, 37, 936-941.	7.1	5
21	Low-cycle fatigue of MCrAlY-coated superalloys: A fracture mechanics-based analysis. Materials Science and Technology, 2021, 37, 151-161.	1.6	5
22	Fatigue crack growth of titanium alloy joints by electron beam welding. Rare Metals, 2014, 33, 516-521.	7.1	4
23	High-temperature oxidation behavior of DZ125 Ni-based superalloy under tensile stress. Rare Metals, 2022, 41, 4188-4193.	7.1	4
24	Microstructural evolution and restoration of creep property for a damaged K403 alloy after rejuvenation heat treatments. Rare Metals, 2021, 40, 1865-1871.	7.1	4
25	Tensile properties and failure analysis of Tiâ€“6Alâ€“4V joints by electron beam welding. Rare Metals, 2016, 35, 450-455.	7.1	3
26	In-situ measurement of elastic modulus for ceramic top-coat at high temperature. Central South University, 2008, 15, 372-376.	0.5	2
27	Low cyclic fatigue behavior of electron-beam-welded Tiâ€“6Alâ€“4V titanium joint. Rare Metals, 2016, 35, 230-234.	7.1	2
28	Evaluation of properties and thermal stress field for thermal barrier coatings. Central South University, 2008, 15, 367-371.	0.5	1
29	Contribution of bone micromechanical behavior beyond lamellar length scale to the macroscopic bone quality of hind limb unloading rats. Acta Astronautica, 2018, 152, 468-473.	3.2	1
30	The effect of thermal loading waveform on the failure mechanism of atmospheric-plasma-sprayed thermal barrier coating system. Science China Technological Sciences, 2018, 61, 1679-1687.	4.0	1
31	Low-cycle fatigue behavior of DZ125 superalloy under prior exposure conditions. Rare Metals, 2017, , 1.	7.1	0
32	Stress analysis and lifetime prediction for Tiâ€“6Alâ€“4V welding joint under fatigue loading. Materials Science and Technology, 2021, 37, 969-978.	1.6	0