

Huiji Shi

List of Publications by Year in descending order

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38
papers

737
citations

516561

16
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38
all docs

38
docs citations

38
times ranked

589
citing authors

#	ARTICLE	IF	CITATIONS
1	A topologized resolved shear stress method for the life prediction of nickel-base single crystal superalloys. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102624.	2.1	13
2	In situ scanning electron microscopy analysis of effect of temperature on small fatigue crack growth behavior of nickel-based single-crystal superalloy. <i>International Journal of Fatigue</i> , 2019, 128, 105195.	2.8	24
3	Adsorption of Methane, Nitrogen, and Carbon Dioxide in Atomic-Scale Fractal Nanopores by Monte Carlo Simulation I: Single-Component Adsorption. <i>Energy & Fuels</i> , 2019, 33, 10457-10475.	2.5	14
4	The effect of crystal orientation on fretting fatigue crack formation in Ni-based single-crystal superalloys: In-situ SEM observation and crystal plasticity finite element simulation. <i>Tribology International</i> , 2018, 125, 209-219.	3.0	38
5	Effects of secondary orientation on fatigue crack initiation in a single crystal superalloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 935-948.	1.7	10
6	Crystallographic analysis on small fatigue crack propagation behaviour of a nickel-based single crystal superalloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 3-11.	1.7	16
7	Multiscale thermomechanical modeling of short fiber-reinforced composites. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 765-772.	0.6	3
8	Influence of surface recrystallization on the low cycle fatigue behaviour of a single crystal superalloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 340-351.	1.7	20
9	Influence of orientation and temperature on the fatigue crack growth of a nickel-based directionally solidified superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 153-160.	2.6	34
10	In situ SEM studies of the low cycle fatigue behavior of DZ4 superalloy at elevated temperature: Effect of partial recrystallization. <i>International Journal of Fatigue</i> , 2014, 61, 255-263.	2.8	47
11	Effects of orientation and vacancy defects on the shock Hugoniot behavior and spallation of single-crystal copper. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 035012.	0.8	25
12	Comparison of the very high cycle fatigue behaviors of INCONEL 718 with different loading frequencies. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 617-623.	2.0	30
13	Fatigue crack growth and propagation along the adhesive interface between fiber-reinforced composites. <i>Engineering Fracture Mechanics</i> , 2013, 110, 290-299.	2.0	15
14	On the fatigue small crack behaviors of directionally solidified superalloy DZ4 by in situ SEM observations. <i>International Journal of Fatigue</i> , 2012, 35, 91-98.	2.8	19
15	Molecular dynamics study on the nano-void growth and coalescence at grain boundary. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 86-93.	2.0	9
16	Numerical simulation on the interface debonding in solid propellant under large deformation by a cohesive zone model. <i>International Journal of Materials and Product Technology</i> , 2011, 42, 98.	0.1	7
17	Numerical simulation on the impact resistance of functionally graded materials. <i>International Journal of Materials and Product Technology</i> , 2011, 42, 87.	0.1	2
18	Fish-eye shape prediction with gigacycle fatigue failure. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011, 34, 832-837.	1.7	11

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19	Gigacycle fatigue behaviors of two SNCM439 steels with different tensile strengths. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2011, 27, 778-784.	1.5	8
20	Determination of mixed-mode interfacial fracture toughness for thermal barrier coatings. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 618-624.	2.0	9
21	In-situ scanning electron microscopy studies of small fatigue crack growth in recrystallized layer of a directionally solidified superalloy. <i>Materials Letters</i> , 2010, 64, 2080-2083.	1.3	13
22	In-situ observations of the effects of orientation and carbide on low cycle fatigue crack propagation in a single crystal superalloy. <i>Procedia Engineering</i> , 2010, 2, 2287-2295.	1.2	28
23	A constitutive description of the strain rate and temperature effects on the mechanical behavior of materials. <i>Mechanics of Materials</i> , 2010, 42, 774-781.	1.7	36
24	Strain rate and temperature effects on the critical strain for Portevinâ€œLe Chatelier effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5175-5180.	2.6	25
25	Influence of coating thickness and temperature on mechanical properties of steel deposited with Co-based alloy hardfacing coating. <i>Surface and Coatings Technology</i> , 2010, 204, 3927-3934.	2.2	51
26	Effects of grain size distribution on the creep damage evolution of polycrystalline materials. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 165401.	1.3	10
27	Notice of Retraction: Load frequency effect on gigacycle fatigue properties of superalloy inconel 718. , 2010, , .		0
28	The dynamic properties of SiCp/Al composites fabricated by spark plasma sintering with powders prepared by mechanical alloying process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 527, 218-224.	2.6	48
29	An updated continuum damage model to investigate fracture process of structures in DBTT region. <i>International Journal of Fracture</i> , 2008, 151, 199-215.	1.1	3
30	Temperature Effect on Low-Cycle Fatigue Behavior of Nickel-Based Single Crystalline Superalloy. <i>Acta Mechanica Solida Sinica</i> , 2008, 21, 289-297.	1.0	45
31	Small punch testing for assessing the fracture properties of the reactor vessel steel with different thicknesses. <i>Nuclear Engineering and Design</i> , 2008, 238, 3186-3193.	0.8	62
32	EQUILIBRIUM CONFIGURATIONS OF ADHERING TUBULAR VESICLES UNDER EXTERNAL LOADS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1201-1210.	1.0	1
33	Theoretical analysis of adhering lipid vesicles with free edges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 46, 162-168.	2.5	11
34	Shape equations and curvature bifurcations induced by inhomogeneous rigidities in cell membranes. <i>Journal of Biomechanics</i> , 2005, 38, 1433-1440.	0.9	36
35	Numerical simulation of thermo-mechanical fatigue properties for particulate reinforced composites. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 160-168.	1.5	10
36	<title>Large deformation and mechanical behavior analysis using temporal speckle pattern interferometry</title>. , 2002, , .		0

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37	<title>Displacement measurements in microregion with generalized digital speckle correlation method</title>. , 2002, 4537, 366.		2
38	Rigid-plastic meso-damage constitutive theory for porous composites reinforced by particles. Composites Science and Technology, 2002, 62, 697-708.	3.8	2