

Huiji Shi

List of Publications by Year in descending order

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38
papers

737
citations

516561

16
h-index

552653

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38
all docs

38
docs citations

38
times ranked

589
citing authors

#	ARTICLE	IF	CITATIONS
1	Small punch testing for assessing the fracture properties of the reactor vessel steel with different thicknesses. Nuclear Engineering and Design, 2008, 238, 3186-3193.	0.8	62
2	Influence of coating thickness and temperature on mechanical properties of steel deposited with Co-based alloy hardfacing coating. Surface and Coatings Technology, 2010, 204, 3927-3934.	2.2	51
3	The dynamic properties of SiCp/Al composites fabricated by spark plasma sintering with powders prepared by mechanical alloying process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 218-224.	2.6	48
4	In situ SEM studies of the low cycle fatigue behavior of DZ4 superalloy at elevated temperature: Effect of partial recrystallization. International Journal of Fatigue, 2014, 61, 255-263.	2.8	47
5	Temperature Effect on Low-Cycle Fatigue Behavior of Nickel-Based Single Crystalline Superalloy. Acta Mechanica Solida Sinica, 2008, 21, 289-297.	1.0	45
6	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. Tribology International, 2018, 125, 209-219.	3.0	38
7	Shape equations and curvature bifurcations induced by inhomogeneous rigidities in cell membranes. Journal of Biomechanics, 2005, 38, 1433-1440.	0.9	36
8	A constitutive description of the strain rate and temperature effects on the mechanical behavior of materials. Mechanics of Materials, 2010, 42, 774-781.	1.7	36
9	Influence of orientation and temperature on the fatigue crack growth of a nickel-based directionally solidified superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 153-160.	2.6	34
10	Comparison of the very high cycle fatigue behaviors of INCONEL 718 with different loading frequencies. Science China: Physics, Mechanics and Astronomy, 2013, 56, 617-623.	2.0	30
11	In-situ observations of the effects of orientation and carbide on low cycle fatigue crack propagation in a single crystal superalloy. Procedia Engineering, 2010, 2, 2287-2295.	1.2	28
12	Strain rate and temperature effects on the critical strain for Portevinâ€“Le Chatelier effect. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5175-5180.	2.6	25
13	Effects of orientation and vacancy defects on the shock Hugoniot behavior and spallation of single-crystal copper. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 035012.	0.8	25
14	In situ scanning electron microscopy analysis of effect of temperature on small fatigue crack growth behavior of nickel-based single-crystal superalloy. International Journal of Fatigue, 2019, 128, 105195.	2.8	24
15	Influence of surface recrystallization on the low cycle fatigue behaviour of a single crystal superalloy. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 340-351.	1.7	20
16	On the fatigue small crack behaviors of directionally solidified superalloy DZ4 by in situ SEM observations. International Journal of Fatigue, 2012, 35, 91-98.	2.8	19
17	Crystallographic analysis on small fatigue crack propagation behaviour of a nickelâ€“based single crystal superalloy. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 3-11.	1.7	16
18	Fatigue crack growth and propagation along the adhesive interface between fiber-reinforced composites. Engineering Fracture Mechanics, 2013, 110, 290-299.	2.0	15

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Theoretical analysis of adhering lipid vesicles with free edges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 46, 162-168.	2.5	11
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	Multiscale thermomechanical modeling of short fiber-reinforced composites. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 765-772.	0.6	3
33	<title>Displacement measurements in microregion with generalized digital speckle correlation method</title>., 2002, 4537, 366.		2
34	Rigid-plastic meso-damage constitutive theory for porous composites reinforced by particles. <i>Composites Science and Technology</i> , 2002, 62, 697-708.	3.8	2
35	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
36	EQUILIBRIUM CONFIGURATIONS OF ADHERING TUBULAR VESICLES UNDER EXTERNAL LOADS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1201-1210.	1.0	1

#	ARTICLE	IF	CITATIONS
37	<title>Large deformation and mechanical behavior analysis using temporal speckle pattern interferometry</title>. , 2002, , .		0
38	Notice of Retraction: Load frequency effect on gigacycle fatigue properties of superalloy inconel 718. , 2010, , .		0