

Shao-Shi Rui

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	EBSD analysis of cyclic load effect on final misorientation distribution of post-mortem low alloy steel: A new method for fatigue crack tip driving force prediction. <i>International Journal of Fatigue</i> , 2018, 113, 264-276.	2.8	62
2	Crystal orientation effect on fretting fatigue induced geometrically necessary dislocation distribution in Ni-based single-crystal superalloys. <i>Acta Materialia</i> , 2019, 179, 129-141.	3.8	57
3	Diffraction-based misorientation mapping: A continuum mechanics description. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 133, 103709.	2.3	57
4	EBSD analysis of creep deformation induced grain lattice distortion: A new method for creep damage evaluation of austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 329-337.	2.6	44
5	Fatigue short crack propagation behavior of selective laser melted Inconel 718 alloy by in-situ SEM study: Influence of orientation and temperature. <i>International Journal of Fatigue</i> , 2020, 139, 105739.	2.8	41
6	Correlations between two EBSD-based metrics Kernel Average Misorientation and Image Quality on indicating dislocations of near-failure low alloy steels induced by tensile and cyclic deformations. <i>Materials Today Communications</i> , 2021, 27, 102445.	0.9	35
7	Effects of secondary orientation and temperature on the fretting fatigue behaviors of Ni-based single crystal superalloys. <i>Tribology International</i> , 2019, 130, 9-18.	3.0	26
8	Effects of Pulsed Magnetic Fields of Different Intensities on Dislocation Density, Residual Stress, and Hardness of Cr4Mo4V Steel. <i>Crystals</i> , 2020, 10, 115.	1.0	25
9	Fracture mode identification of low alloy steels and cast irons by electron back-scattered diffraction misorientation analysis. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1582-1595.	5.6	23
10	Effects of temperature and load on fretting fatigue induced geometrically necessary dislocation distribution in titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140308.	2.6	21
11	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
12	Effect of crystal orientation on the indentation behaviour of Ni-based single crystal superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138893.	2.6	16
13	Near-threshold fatigue crack growth behavior of 10% Cr martensitic steel welded joint with 9% Cr weld metal in high temperature air. <i>International Journal of Fatigue</i> , 2020, 137, 105650.	2.8	15
14	Effect of misorientation on the fatigue life of nickel-base single crystal superalloy DD5 at 980°C. <i>International Journal of Fatigue</i> , 2021, 153, 106479.	2.8	15
15	Magnetic induced re-dissolution and microstructure modifications on mechanical properties of Cr4Mo4V steel subjected to pulsed magnetic treatment. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160471.	2.8	14
16	Temperature-dependent fatigue response of a Fe44Mn36Co10Cr10 high entropy alloy: A coupled in-situ electron microscopy study and crystal plasticity simulation. <i>International Journal of Fatigue</i> , 2021, 151, 106385.	2.8	11
17	Subsurface crack formation and propagation of fretting fatigue in Ni-based single-crystal superalloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2520-2532.	1.7	10
18	Fatigue crack initiation behaviors around defects induced by welding thermal cycle in superalloy IN617B. <i>International Journal of Fatigue</i> , 2022, 158, 106745.	2.8	10

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19	Fatigue crack growth mechanism of Ni-based weld metal in a 9% Ni steel joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142485.	2.6	9
20	Effect of nickel-based filler metal types on creep properties of dissimilar metal welds between Inconel 617B and 10% Cr martensitic steel. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2289-2301.	2.6	8
21	Parametric Study of Cyclic Plasticity Behavior in a Directionally Solidified Superalloy with Partial Recrystallization by Crystal Plasticity Finite Element Simulation. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3332-3340.	1.2	7
22	A modification to the two driving forces model for fatigue threshold prediction. <i>International Journal of Fatigue</i> , 2021, 149, 106259.	2.8	5
23	Effect of long term service on fatigue crack growth behavior of low alloy CrMoV steel weld metals. <i>International Journal of Fatigue</i> , 2021, 152, 106460.	2.8	5
24	In-situ observation and finite element analysis of fretting fatigue crack propagation behavior in 1045 steel. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 131-139.	2.8	5
25	The effect of porosity size and oxidation on the HCF property of nickel-based single crystal superalloy at 980 °C. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103423.	2.1	5
26	Oxidation damage and interfacial failure of dissimilar metal welds containing ferritic heat resistant steels. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1439-1450.	1.4	4
27	Long-term service induced mechanical properties change of hot-end welding metals in a retired CrMoV bainitic gas turbine rotor. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142323.	2.6	4
28	Failure analysis of runway centerline light and effect of microstructure on mechanical properties. <i>Engineering Failure Analysis</i> , 2019, 105, 1069-1078.	1.8	2
29	Estimation Method of Relative Slip in Fretting Fatigue Contact by Digital Image Correlation. <i>Metals</i> , 2022, 12, 1124.	1.0	2