

Xian-Cheng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

423
citations

623734

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31
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276
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Challenges and Opportunities Toward Understanding Hydrogen Embrittlement Mechanisms in Advanced High-Strength Steels: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 741-754.	2.9	54
2	Effects of Different Mechanical Surface Enhancement Techniques on Surface Integrity and Fatigue Properties of Ti-6Al-4V: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 445-469.	12.3	35
3	Experimental investigation and numerical prediction on creep crack growth behavior of the solution treated Inconel 625 superalloy. <i>Engineering Fracture Mechanics</i> , 2018, 199, 327-342.	4.3	31
4	Creep crack growth behavior analysis of the 9Cr-1Mo steel by a modified creep-damage model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 68-76.	5.6	27
5	Effect of Oxide Growth Strain in Residual Stresses for the Deflection Test of Single Surface Oxidation of Alloys. <i>Oxidation of Metals</i> , 2012, 77, 93-106.	2.1	26
6	Effects of the stress state on plastic deformation and ductile failure: Experiment and numerical simulation using a newly designed tension-shear specimen. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2079-2092.	3.4	24
7	Microstructure and Properties of Al ₂ O ₃ -13wt.%TiO ₂ -Reinforced CoCrFeMnNi High-Entropy Alloy Composite Coatings Prepared by Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 772-786.	3.1	23
8	Gradient Elastic-Plastic Properties of Expanded Austenite Layer in 316L Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 831-841.	2.9	19
9	Effect of the geometrical size on time dependent failure probability of the solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11033-11046.	7.1	18
10	Formation and Properties of Superhydrophobic Al Coatings on Steel. <i>ACS Omega</i> , 2021, 6, 18383-18394.	3.5	17
11	Effect of Stress Ratio on the Fatigue Crack Propagation Behavior of the Nickel-based GH4169 Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 809-821.	2.9	16
12	Autonomous Exploration and Map Construction of a Mobile Robot Based on the TGHM Algorithm. <i>Sensors</i> , 2020, 20, 490.	3.8	16
13	Fifth-degree elastic energy for predictive continuum stress-strain relations and elastic instabilities under large strain and complex loading in silicon. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	15
14	Analytical Modeling on Stress Assisted Oxidation and its Effect on Creep Response of Metals. <i>Oxidation of Metals</i> , 2014, 82, 311-330.	2.1	14
15	Microstructure and Tribocorrosion Behavior of Al ₂ O ₃ /Al Composite Coatings: Role of Al ₂ O ₃ Addition. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1741-1751.	3.1	12
16	Coordinated bilateral ultrasonic surface rolling process on aero-engine blades. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 4415-4428.	3.0	11
17	Two-sided ultrasonic surface rolling process of aeroengine blades based on on-machine noncontact measurement. <i>Frontiers of Mechanical Engineering</i> , 2020, 15, 240-255.	4.3	10
18	Microstructural Evolution, Mechanical Properties and Thermal Stability of Gradient Structured Pure Nickel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 951-960.	2.9	9

#	ARTICLE	IF	CITATIONS
19	Wear-Resistant TiC Strengthening CoCrNi-Based High-Entropy Alloy Composite. <i>Materials</i> , 2021, 14, 4665.	2.9	9
20	Advanced Simulation Tools Applied to Materials Development and Design Predictions. <i>Materials</i> , 2020, 13, 147.	2.9	6
21	Ductile failure of flat plates containing two through-wall cracks: Experimental investigation and numerical modeling. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 191, 104377.	2.6	6
22	Effect of ultrasonic surface deep rolling combined with oxygen boost diffusion treatment on fatigue properties of pure titanium. <i>Scientific Reports</i> , 2021, 11, 17840.	3.3	5
23	Operation Status of Teleoperator Based Shared Control Telerobotic System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 101, 1.	3.4	4
24	Path planning for machining on surface of a blade. , 2017, , .		3
25	Creep fracture behavior of the Crofer 22 APU for the interconnect of solid oxide fuel cell under different temperatures. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4829-4840.	7.1	3
26	Size Matching Criterion of High Temperature Waveguide Transducer for Quasi-Fundamental Shear Horizontal Wave. <i>IEEE Sensors Journal</i> , 2021, 21, 16721-16730.	4.7	3
27	Durability of plasma-sprayed Cr3C2-NiCr coatings under rolling contact conditions. <i>Frontiers of Mechanical Engineering in China</i> , 2011, 6, 118.	0.4	2
28	Feasibility study of microscale laser shock processing without absorbing coating to improve high-cycle fatigue performance of DZ17G directionally solidified superalloy. <i>Journal of Laser Applications</i> , 2019, 31, 042007.	1.7	2
29	Machinability and cutting force modeling of 7055 aluminum alloy with wide temperature range based on dry cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2787-2808.	3.0	2
30	Optimal Design Methodology of Tapered Waveguide Transducers for Thickness Monitoring. <i>Sensors</i> , 2020, 20, 1892.	3.8	1
31	An EEG based dynamic shared control method for online teleoperation. , 2017, , .		0