

Zheng Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Controllable Surface Etching Strategy for Well-Defined Spiny Yolk@Shell CuO@CeO ₂ Cubes and Their Catalytic Performance Boost. <i>Advanced Functional Materials</i> , 2018, 28, 1802559.	14.9	60
2	High-Performance Ultrathin Co ₃ O ₄ Nanosheet Supported PdO/CeO ₂ Catalysts for Methane Combustion. <i>Advanced Energy Materials</i> , 2019, 9, 1803583.	19.5	57
3	CO Oxidation Catalyzed by Two-Dimensional Co ₃ O ₄ /CeO ₂ Nanosheets. <i>ACS Applied Nano Materials</i> , 2019, 2, 5769-5778.	5.0	45
4	Self-Assembled Pd@CeO ₂ /Al ₂ O ₃ Catalysts with Enhanced Activity for Catalytic Methane Combustion. <i>Small</i> , 2017, 13, 1700941.	10.0	40
5	Effects of HIP Temperature on the Microstructural Evolution and Property Restoration of a Ni-Based Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 215-222.	2.5	24
6	Dissolution behaviour of the γ' precipitates in two kinds of Ni-based superalloys. <i>Materials at High Temperatures</i> , 2016, 33, 51-57.	1.0	19
7	Cavitation Erosion Behavior of 316L Stainless Steel. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	18
8	Effects of Solutioning on the Dissolution and Coarsening of γ' Precipitates in a Nickel-Based Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1492-1504.	2.5	16
9	Morphological evolution of γ' precipitates in a nickel-based superalloy during various solution treatments. <i>Rare Metals</i> , 2012, 31, 221-226.	7.1	15
10	The γ' precipitate rafting and element distribution during hot isostatic pressing in a nickel-based superalloy. <i>Materials and Design</i> , 2015, 86, 836-840.	7.0	15
11	Eddy Current Assessment of the Cold Rolled Deformation Behavior of AISI 321 Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1772-1776.	2.5	9
12	Effect of Grain Size on the Tensile Deformation Mechanisms of Commercial Pure Titanium as Revealed by Acoustic Emission. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1975-1986.	2.5	9
13	Microstructure Evolution of AlSi10Mg(Cu) Alloy Related to Isothermal Exposure. <i>Materials</i> , 2018, 11, 809.	2.9	8
14	Influence of Carbide Morphology on the Deformation and Fracture Mechanisms of Spheroidized 14CrMoR Steel. <i>Metals</i> , 2019, 9, 1221.	2.3	7
15	Microstructural Evolution of Creep-Induced Cavities and Casting Porosities for a Damaged Ni-based Superalloy Under Various Hot Isostatic Pressing Conditions. <i>Acta Metallurgica Sinica (English) TJ ETQq1 1 0.784314</i> . Download PDF / Overlock 10 T	1.4	7
16	Evolution of In783 alloy in microstructure and properties enduring different service times. <i>Rare Metals</i> , 2024, 43, 334-341.	7.1	6
17	The Effect of Grain Size on Fatigue Crack Propagation in Commercial Pure Titanium Investigated by Acoustic Emission. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2720-2729.	2.5	5
18	Rejuvenation heat treatment's influence on the microstructure and properties of superalloys. <i>Materials Science and Technology</i> , 2018, 34, 1018-1024.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Cavitation Damage Prediction of Stainless Steels Using an Artificial Neural Network Approach. <i>Metals</i> , 2019, 9, 506.	2.3	5
20	An Integrated Processing Method for Fatigue Damage Identification in a Steel Structure Based on Acoustic Emission Signals. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1784-1791.	2.5	4
21	Effects of Nano-Grains and Deformation Nano-Twins on Electrochemical Corrosion Behavior of DZ125 Nickel-Based Superalloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1800279.	3.5	4
22	Creep behavior and damage evolution of T92/Super304H dissimilar weld joints. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 751-760.	2.8	4
23	Failure Analysis of a Cylindrical Roller Bearing Caused by Excessive Tightening Axial Force. <i>Machines</i> , 2022, 10, 322.	2.2	4
24	Microstructural Changes of a Creep-Damaged Nickel-Based K002 Superalloy Containing Hf Element under Different HIP Temperatures. <i>High Temperature Materials and Processes</i> , 2016, 35, 153-159.	1.4	3
25	Influence of Stress on the Electromigration Life of Solder. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017, 7, 762-767.	2.5	3
26	Catalytic activity boost of CeO ₂ /Co ₃ O ₄ nanospheres derived from CeCo-glycolate via yolk-shell structural evolution. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 421-426.	6.0	3
27	General analytical solution to bending of composite laminated beams with delaminations. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2010, 31, 883-894.	3.6	2
28	Correlation between the cyclic stress behavior and microstructure in 316LN based on the analysis of hysteresis loops. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 780-785.	1.0	2
29	Evolution of silicon particle damage on fatigue crack initiation and early propagation in an aluminum alloy. <i>Rare Metals</i> , 2023, 42, 2470-2476.	7.1	2
30	Microstructures and mechanical properties of DZ125 directional solidified superalloy repaired by HIP technology. <i>Rare Metals</i> , 2018, , 1.	7.1	2
31	Evolution of Precipitated Phases during Creep of G115/Sanicro25 Dissimilar Steel Welded Joints. <i>Materials</i> , 2021, 14, 5018.	2.9	1
32	Analysis of crack causes and effects of the A333 low carbon pipeline steel after thermite welding. <i>Engineering Failure Analysis</i> , 2021, 130, 105774.	4.0	1
33	Simulation of electromigration induced stress of solder. , 2016, , .		0
34	Influence of stress on the electromigration life of solder. , 2016, , .		0
35	A semi-analytical method to compute acoustic nonlinearity parameter of Cu, Ag and Au. <i>Rare Metals</i> , 2016, , 1.	7.1	0
36	Morphological evolution of Ni_3Al precipitate under various rejuvenation heat treatment cycles in a damaged nickel-based superalloy. <i>Rare Metals</i> , 2016, , 1.	7.1	0