Zheng Zhang

List of Publications by Year
in descending order

36 papers	404 citations	933447 10 h-index	794594 19 g-index
36 all docs	36 docs citations	36 times ranked	437 citing authors

#	Article	IF	Citations
1	Evolution of In783 alloy in microstructure and properties enduring different service times. Rare Metals, 2024, 43, 334-341.	7.1	6
2	Evolution of silicon particle damage on fatigue crack initiation and early propagation in an aluminum alloy. Rare Metals, 2023, 42, 2470-2476.	7.1	2
3	Failure Analysis of a Cylindrical Roller Bearing Caused by Excessive Tightening Axial Force. Machines, 2022, 10, 322.	2.2	4
4	Evolution of Precipitated Phases during Creep of G115/Sanicro25 Dissimilar Steel Welded Joints. Materials, 2021, 14, 5018.	2.9	1
5	Analysis of crack causes and effects of the A333 low carbon pipeline steel after thermite welding. Engineering Failure Analysis, 2021, 130, 105774.	4.0	1
6	Catalytic activity boost of CeO₂/Co₃O₄ nanospheres derived from CeCo-glycolate via yolkâ€“shell structural evolution. Inorganic Chemistry Frontiers, 2020, 7, 421-426.	6.0	3
7	CO Oxidation Catalyzed by Two-Dimensional Co₃O₄/CeO₂ Nanosheets. ACS Applied Nano Materials, 2019, 2, 5769-5778.	5.0	45
8	Cavitation Erosion Behavior of 316L Stainless Steel. Tribology Letters, 2019, 67, 1.	2.6	18
9	Cavitation Damage Prediction of Stainless Steels Using an Artificial Neural Network Approach. Metals, 2019, 9, 506.	2.3	5
10	Highâ€Performance Ultrathin Co₃O₄ Nanosheet Supported PdO/CeO₂ Catalysts for Methane Combustion. Advanced Energy Materials, 2019, 9, 1803583.	19.5	57
11	Creep behavior and damage evolution of T92/Super304H dissimilar weld joints. Journal of Iron and Steel Research International, 2019, 26, 751-760.	2.8	4
12	Influence of Carbide Morphology on the Deformation and Fracture Mechanisms of Spheroidized 14CrMoR Steel. Metals, 2019, 9, 1221.	2.3	7
13	Rejuvenation heat treatment's influence on the microstructure and properties of superalloys. Materials Science and Technology, 2018, 34, 1018-1024.	1.6	5
14	Effects of Nanoâ€Grains and Deformation Nanoâ€Twins on Electrochemical Corrosion Behavior of DZ125 Nickelâ€Based Superalloy. Advanced Engineering Materials, 2018, 20, 1800279.	3.5	4
15	Microstructure Evolution of AlSi10Mg(Cu) Alloy Related to Isothermal Exposure. Materials, 2018, 11, 809.	2.9	8
16	Microstructures and mechanical properties of DZ125 directional solidified superalloy repaired by HIP technology. Rare Metals, 2018, , 1.	7.1	2
17	A Controllable Surface Etching Strategy for Wellâ€Defined Spiny Yolk@Shell CuO@CeO₂ Cubes and Their Catalytic Performance Boost. Advanced Functional Materials, 2018, 28, 1802559.	14.9	60
18	Influence of Stress on the Electromigration Life of Solder. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 762-767.	2.5	3

#	Article	IF	Citations
19	Selfâ€Assembled Pd@CeO₂/Î³â€Al₂O₃ Catalysts with Enhanced Activity for Catalytic Methane Combustion. Small, 2017, 13, 1700941.	10.0	40
20	An Integrated Processing Method for Fatigue Damage Identification in a Steel Structure Based on Acoustic Emission Signals. Journal of Materials Engineering and Performance, 2017, 26, 1784-1791.	2.5	4
21	Simulation of electromigration induced stress of solder. , 2016, , .		0
22	Influence of stress on the electromigration life of solder. , 2016, , .		0
23	Dissolution behaviour of the Î³â€² precipitates in two kinds of Ni-based superalloys. Materials at High Temperatures, 2016, 33, 51-57.	1.0	19
24	Microstructural Changes of a Creep-Damaged Nickel-Based K002 Superalloy Containing Hf Element under Different HIP Temperatures. High Temperature Materials and Processes, 2016, 35, 153-159.	1.4	3
25	A semi-analytical method to compute acoustic nonlinearity parameter of Cu, Ag and Au. Rare Metals, 2016, , 1.	7.1	0
26	Morphological evolution of Î³â€² precipitate under various rejuvenation heat treatment cycles in a damaged nickel-based superalloy. Rare Metals, 2016, , 1.	7.1	0
27	Effects of Solutioning on the Dissolution and Coarsening of Î³â€² Precipitates in a Nickel-Based Superalloy. Journal of Materials Engineering and Performance, 2015, 24, 1492-1504.	2.5	16
28	The Effect of Grain Size on Fatigue Crack Propagation in Commercial Pure Titanium Investigated by Acoustic Emission. Journal of Materials Engineering and Performance, 2015, 24, 2720-2729.	2.5	5
29	Effect of Grain Size on the Tensile Deformation Mechanisms of Commercial Pure Titanium as Revealed by Acoustic Emission. Journal of Materials Engineering and Performance, 2015, 24, 1975-1986.	2.5	9
30	Microstructural Evolution of Creep-Induced Cavities and Casting Porosities for a Damaged Ni-based Superalloy Under Various Hot Isostatic Pressing Conditions. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297	2.9	6
31	The Î³â€² precipitate rafting and element distribution during hot isostatic pressing in a nickel-based superalloy. Materials and Design, 2015, 86, 836-840.	7.0	15
32	Correlation between the cyclic stress behavior and microstructure in 316LN based on the analysis of hysteresis loops. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 780-785.	1.0	2
33	Effects of HIP Temperature on the Microstructural Evolution and Property Restoration of a Ni-Based Superalloy. Journal of Materials Engineering and Performance, 2013, 22, 215-222.	2.5	24
34	Eddy Current Assessment of the Cold Rolled Deformation Behavior of AISI 321 Stainless Steel. Journal of Materials Engineering and Performance, 2012, 21, 1772-1776.	2.5	9
35	Morphological evolution of Î³â€² precipitates in a nickel-based superalloy during various solution treatments. Rare Metals, 2012, 31, 221-226.	7.1	15
36	General analytical solution to bending of composite laminated beams with delaminations. Applied Mathematics and Mechanics (English Edition), 2010, 31, 883-894.	3.6	2