

Weiqiang Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4774692/publications.pdf>

Version: 2024-02-01

34
papers

286
citations

1040056

9
h-index

940533

16
g-index

34
all docs

34
docs citations

34
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	Failure analysis of stress corrosion cracking in heat exchanger tubes during start-up operation. <i>Engineering Failure Analysis</i> , 2015, 51, 1-8.	4.0	59
2	Method to determine the optimal constitutive model from spherical indentation tests. Results in <i>Physics</i> , 2018, 8, 716-727.	4.1	24
3	A constitutive model independent analytical method in determining the tensile properties from incremental spherical indentation tests (ISITs). <i>International Journal of Mechanical Sciences</i> , 2018, 148, 9-19.	6.7	23
4	A comparative study on fracture toughness calculation models in spherical indentation tests (SITs) for ductile metals. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 114-128.	6.7	18
5	An energy-based method for flow property determination from a single-cycle spherical indentation test (SIT). <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105369.	6.7	18
6	A comparative study on uniaxial tensile property calculation models in spherical indentation tests (SITs). <i>International Journal of Mechanical Sciences</i> , 2019, 155, 159-169.	6.7	17
7	Improved methods to determine the elastic modulus and area reduction rate in spherical indentation tests. <i>Materialprüfung/Materials Testing</i> , 2018, 60, 355-362.	2.2	17
8	Determination of the proof strength and flow properties of materials from spherical indentation tests: An analytical approach based on the expanding cavity model. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 225-241.	1.8	16
9	Using FEM to predict residual stresses in girth welding joint of layered cylindrical vessels. <i>International Journal of Pressure Vessels and Piping</i> , 2014, 119, 1-7.	2.6	13
10	Damage mechanism and evaluation model of compressor impeller remanufacturing blanks: A review. <i>Frontiers of Mechanical Engineering</i> , 2019, 14, 402-411.	4.3	10
11	Thermal properties of acrylonitrile/itaconic acid polymers in oxidative and nonoxidative atmospheres. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1207-1212.	2.6	8
12	Numerical investigation of thermo-mechanical stress in U-tube including forming effect for the SCC failure analysis. <i>Engineering Failure Analysis</i> , 2017, 77, 126-137.	4.0	7
13	Modified Formulation of Layer Stresses Due to Internal Pressure of a Layered Vessel With Interlayer Gaps. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2010, 132, .	0.6	6
14	Effects of Specimen Size and Welded Joints on the Very High Cycle Fatigue Properties of Compressor Blade Steel KMN-I. <i>Coatings</i> , 2021, 11, 1244.	2.6	6
15	Fatigue Damage Evaluation of Compressor Blade Based on Nonlinear Ultrasonic Nondestructive Testing. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1358.	2.6	6
16	A Novel Jig Dyeing Apparatus for Dyeing Polyester with Supercritical Carbon Dioxide and its Dyeing Effect. <i>Fibers and Polymers</i> , 2022, 23, 745-750.	2.1	6
17	A strain-pattern-based spherical indentation method for simultaneous uniaxial tensile residual stress and flow property determination. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 50-64.	1.8	5
18	Research on Fatigue Damage of Compressor Blade Steel KMN-I Using Nonlinear Ultrasonic Testing. <i>Shock and Vibration</i> , 2017, 2017, 1-11.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Three-dimensional finite element analyses of repair process and safety margin assessment. International Journal of Pressure Vessels and Piping, 2019, 172, 283-294.	2.6	4
20	Improving the tensile property calculations with plastic zone radius measurements in depth-sensing spherical indentation tests. Journal of Strain Analysis for Engineering Design, 2022, 57, 513-529.	1.8	4
21	Cefquinome Controlled Size Submicron Particles Precipitation by SEDS Process Using Annular Gap Nozzle. International Journal of Chemical Engineering, 2017, 2017, 1-8.	2.4	3
22	A study on determination of tensile properties of metals at elevated temperatures from spherical indentation tests. Journal of Strain Analysis for Engineering Design, 2019, 54, 331-347.	1.8	3
23	Establishment of the Predicting Models of the Dyeing Effect in Supercritical Carbon Dioxide Based on the Generalized Regression Neural Network and Back Propagation Neural Network. Processes, 2020, 8, 1631.	2.8	3
24	Grey Correlation Analysis of Corrosion on the First Oil Atmospheric Distillation Equipment. , 2009, , .		2
25	Effects of microstructure and inclusions on very high cycle fatigue properties of compressor blade steels. Strength, Fracture and Complexity, 2017, 10, 1-9.	0.3	2
26	Structural Integrity Analysis of Two Over-Temperature Methanation Furnaces. Journal of Failure Analysis and Prevention, 2019, 19, 230-236.	0.9	1
27	A New Approach to Elastodynamic Response of Cylindrical Shell Based on Developed Solution Structure Theorem for Wave Equation. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.6	1
28	Grey Decision on Oil Distillation Tower Top Exchangers Maintenance Overhaul. , 2009, , .		0
29	Grey Prediction of Elbow Corrosion on Refinery Equipment. , 2009, , .		0
30	Grey decision on oil distillation tower top exchangers maintenance overhaul. , 2009, , .		0
31	Grey Decision on Oil Distillation Exchangers Rebuilding Project. , 2009, , .		0
32	A New Method to the Elastodynamic Response of a Spherical Shell Under the Impact Load. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.6	0
33	Structural and regulating characteristics of adjustable annulus-clearance nozzle used in supercritical fluid precipitation. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1487-1492.	1.0	0
34	Research on Residual Life Estimation Method for KMN Steel Based on Nonlinear Ultrasonic Testing. Applied Sciences (Switzerland), 2021, 11, 11385.	2.5	0