

Amir-Hossein Mahmoudi

List of Publications by Year in descending order

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46
papers

827
citations

567281

15
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47
all docs

47
docs citations

47
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Procedure to Measure Near Yield Residual Stresses Using the Deep Hole Drilling Technique. <i>Experimental Mechanics</i> , 2009, 49, 595-604.	2.0	109
2	Parameter determination of Chaboche kinematic hardening model using a multi objective Genetic Algorithm. <i>Computational Materials Science</i> , 2011, 50, 1114-1122.	3.0	86
3	A comprehensive experimental and numerical study on redistribution of residual stresses by shot peening. <i>Materials and Design</i> , 2016, 90, 478-487.	7.0	83
4	Shot peening coverage effect on residual stress profile by FE random impact analysis. <i>Surface Engineering</i> , 2016, 32, 861-870.	2.2	50
5	Using local out-of-plane compression (LOPC) to study the effects of residual stress on apparent fracture toughness. <i>Engineering Fracture Mechanics</i> , 2008, 75, 1516-1534.	4.3	38
6	Experimental measurement and analytical determination of shot peening residual stresses considering friction and real unloading behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 309-321.	5.6	37
7	The effect of shot peening on fatigue life of welded tubular joint in offshore structure. <i>Materials & Design</i> , 2012, 36, 250-257.	5.1	35
8	Effect of initial surface treatment on shot peening residual stress field: Analytical approach with experimental verification. <i>International Journal of Mechanical Sciences</i> , 2018, 137, 171-181.	6.7	32
9	A finite element simulation and an experimental study of autofrettage for strain hardened thick-walled cylinders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 359, 326-331.	5.6	30
10	The effect of plasticity on the ability of the deep hole drilling technique to measure axisymmetric residual stress. <i>International Journal of Mechanical Sciences</i> , 2011, 53, 978-988.	6.7	25
11	Determination of mechanical properties using sharp macro-indentation method and genetic algorithm. <i>Mechanics of Materials</i> , 2017, 114, 57-68.	3.2	24
12	Shot peening effects on residual stresses redistribution of offshore wind monopile multi-pass weldments. <i>Marine Structures</i> , 2019, 66, 106-120.	3.8	23
13	Ductile to brittle failure transition of HSLA-100 Steel at high strain rates and subzero temperatures. <i>Engineering Fracture Mechanics</i> , 2016, 158, 179-193.	4.3	19
14	Measurement and Prediction of the Residual Stress Field Generated by Side-Punching. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006, 128, 451-459.	1.4	17
15	An Alternative Approach to Determine Material Characteristics Using Spherical Indentation and Neural Networks for Bulk Metals. <i>Journal of Testing and Evaluation</i> , 2012, 40, 211-219.	0.7	16
16	Analysis of resistance of concrete target against penetration of eroding long rod projectile regarding flow field around the projectile tip. <i>International Journal of Impact Engineering</i> , 2013, 57, 36-42.	5.0	15
17	An approach for Knoop and Vickers indentations to measure equi-biaxial residual stresses and material properties: A comprehensive comparison. <i>Mechanics of Materials</i> , 2019, 134, 153-164.	3.2	15
18	A Neural Networks approach to characterize material properties using the spherical indentation test. <i>Procedia Engineering</i> , 2011, 10, 3062-3067.	1.2	14

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19	An application of Chaboche model to predict uniaxial and multiaxial ratcheting. <i>Procedia Engineering</i> , 2011, 10, 1924-1929.	1.2	13
20	Influence of asymmetrical cuts in measuring residual stresses using contour method. <i>International Journal of Pressure Vessels and Piping</i> , 2015, 134, 1-10.	2.6	13
21	The effect of plugging of tubes on failure of shell and tube heat exchanger. <i>Engineering Failure Analysis</i> , 2019, 104, 545-559.	4.0	13
22	Residual stress measurement by deep hole drilling and trepanning "analysis with distributed dislocations. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 45-54.	1.8	12
23	Effects of water jet peening on residual stresses, roughness, and fatigue. <i>Surface Engineering</i> , 2021, 37, 972-981.	2.2	12
24	Failure analysis of bolt connections in fired heater of a petrochemical unit. <i>Engineering Failure Analysis</i> , 2018, 92, 327-342.	4.0	10
25	Application of the Modified Deep Hole Drilling Technique (iDHD) for Measuring Near Yield Non-Axisymmetric Residual Stresses. , 2009, , .		9
26	A modification to the cross slitting method for measuring two components of residual stresses. <i>Journal of Strain Analysis for Engineering Design</i> , 2017, 52, 93-101.	1.8	8
27	A Novel Method to Determine Material Properties and Residual Stresses Simultaneously Using Spherical Indentation. <i>Journal of Testing and Evaluation</i> , 2015, 43, 87-95.	0.7	8
28	Generating Well Defined Residual Stresses in Laboratory Specimens. , 2006, , 631.		7
29	Experiments and predictions of the effects of load history on cleavage fracture in steel. <i>Engineering Fracture Mechanics</i> , 2010, 77, 631-645.	4.3	7
30	Application of Deep Hole Drilling to the Measurement and Analysis of Residual Stresses in Steel Shrink-Fitted Assemblies. <i>Strain</i> , 2011, 47, 412-426.	2.4	7
31	J-integral and CMOD for external inclined cracks on autofrettaged cylinders. <i>International Journal of Fracture</i> , 2011, 169, 199-212.	2.2	7
32	Application of the Local Approach to Predict Load History Effects in Ferritic Steels. , 2005, , .		6
33	A Procedure to Measure Biaxial Near Yield Residual Stresses Using the Deep Hole Drilling Technique. <i>Experimental Mechanics</i> , 2013, 53, 1223-1231.	2.0	5
34	Plasticity Effect on Residual Stresses Measurement using Contour Method. <i>International Journal of Engineering, Transactions B: Applications</i> , 2013, 26, .	0.7	5
35	A Novel Cutting Strategy for Measuring Two Components of Residual Stresses Using Slitting Method. <i>Experimental Mechanics</i> , 2014, 54, 1237-1246.	2.0	4
36	Measuring Nonequibiaxial Residual Stresses and Mechanical Properties Using Knoop Indentation. <i>Journal of Testing and Evaluation</i> , 2020, 48, 1365-1387.	0.7	3

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37	Application of a portable indentation rig with Rockwell indenter to determine mechanical properties and residual stresses on an aluminum plate. Journal of Strain Analysis for Engineering Design, 2020, 55, 246-257.	1.8	2
38	Spherical Indentation, Part II: Experimental Validation for Measuring Equibiaxial Residual Stresses. Journal of Testing and Evaluation, 2016, 44, 2302-2311.	0.7	2
39	Fatigue Life of Repaired Welded Tubular Joints. International Journal of Engineering, Transactions B: Applications, 2013, 26, .	0.7	2
40	Effect of Gauge Volume on the Residual Stress Measurement Using Deep Hole Drilling Technique. , 2010, , .		1
41	Numerical and Experimental Study of the Plasticity Effect on Residual Stress Measurement Using Slitting Method. Materials Science Forum, 2013, 768-769, 107-113.	0.3	1
42	Shot peening effects on corrosion behavior of commercial pure titanium in body simulating solution. Materials Research Express, 2019, 6, 116556.	1.6	1
43	Effect of Residual Stress on Failure of Tube-to-tubesheet Weld in Heat Exchangers. International Journal of Engineering, Transactions A: Basics, 2019, 32, .	0.4	1
44	The Effect of Boring After Autofrettage of Pressure Cylinders. , 2009, , .		0
45	A Neural Networks Approach to Measure Residual Stresses Using Spherical Indentation. Materials Science Forum, 2013, 768-769, 114-119.	0.3	0
46	Residual Stresses Measurement in Hollow Samples Using Contour Method. International Journal of Engineering, Transactions B: Applications, 2020, 33, .	0.7	0