

Ayhan Ince

List of Publications by Year in descending order

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41
papers

1,240
citations

394421

19
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational crack propagation modeling of welded structures under as-welded and high frequency mechanical impact (HFMI) treatment conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 578-592.	3.4	10
2	Assessment of fatigue crack growth based on 3D finite element modeling approach. <i>Procedia Structural Integrity</i> , 2022, 38, 271-282.	0.8	3
3	Integration of a peridynamic fatigue model with two-parameter crack driving force. <i>Engineering With Computers</i> , 2022, 38, 2859-2877.	6.1	2
4	Approximation modeling framework for elastic-plastic stress-strain fields near cracks with a small finite crack tip radius. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 121, 103452.	4.7	6
5	Integration of artificial neural network with finite element analysis for residual stress prediction of direct metal deposition process. <i>Materials Today Communications</i> , 2021, 27, 102197.	1.9	10
6	Crack growth modeling and simulation of a peridynamic fatigue model based on numerical and analytical solution approaches. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 103026.	4.7	19
7	Very high cycle fatigue characterization of additively manufactured AlSi10Mg and AlSi7Mg aluminium alloys based on ultrasonic fatigue testing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 876-884.	3.4	19
8	Short review on modeling approaches for metal additive manufacturing process. <i>Material Design and Processing Communications</i> , 2020, 2, e56.	0.9	2
9	Numerical modeling of residual stresses and fatigue damage assessment of ultrasonic impact treated 304L stainless steel welded joints. <i>Engineering Failure Analysis</i> , 2020, 108, 104277.	4.0	29
10	A short and long crack growth model based on 2-parameter driving force and crack growth thresholds. <i>International Journal of Fatigue</i> , 2020, 141, 105870.	5.7	27
11	An artificial neural network modeling approach for short and long fatigue crack propagation. <i>Computational Materials Science</i> , 2020, 185, 109962.	3.0	50
12	Response to Comment on paper: A unified frequency domain fatigue damage modeling approach for random-on-random spectrum [Z. Li and A. Ince. <i>Int J Fatigue</i> , 2019;124:123-137]. <i>International Journal of Fatigue</i> , 2020, 136, 105669.	5.7	0
13	Development of an ultrasonic fatigue testing system for gigacycle fatigue. <i>Material Design and Processing Communications</i> , 2020, 2, e120.	0.9	6
14	A modification of UniGrow 2-parameter driving force model for short fatigue crack growth. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 45-60.	3.4	27
15	Strain energy-based multi-axial fatigue life prediction under normal/shear stress interaction. <i>International Journal of Damage Mechanics</i> , 2019, 28, 708-739.	4.2	57
16	Modeling approach for a unified crack growth model in short and long fatigue crack regimes. <i>International Journal of Fatigue</i> , 2019, 128, 105182.	5.7	38
17	Finite element-based numerical modeling framework for additive manufacturing process. <i>Material Design and Processing Communications</i> , 2019, 1, e28.	0.9	18
18	A unified frequency domain fatigue damage modeling approach for random-on-random spectrum. <i>International Journal of Fatigue</i> , 2019, 124, 123-137.	5.7	19

#	ARTICLE	IF	CITATIONS
19	A new modeling framework for fatigue damage of structural components under complex random spectrum. <i>Procedia Structural Integrity</i> , 2019, 19, 528-537.	0.8	1
20	Modeling and simulation of weld residual stresses and ultrasonic impact treatment of welded joints. <i>Procedia Engineering</i> , 2018, 213, 36-47.	1.2	32
21	Numerical Simulation of Residual Stresses in Welding and Ultrasonic Impact Treatment Process. , 2018, , .		0
22	Fatigue Crack Growth Behavior of the MIG Welded Joint of 06Cr19Ni10 Stainless Steel. <i>Materials</i> , 2018, 11, 1336.	2.9	10
23	Deviatoric Neuber method for stress and strain analysis at notches under multiaxial loadings. <i>International Journal of Fatigue</i> , 2017, 102, 229-240.	5.7	40
24	The effect of strain strengthening on the mixed mode crack fatigue propagation in the HAZ of 06Cr19Ni10 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 341-347.	5.6	9
25	A generalized mean stress correction model based on distortional strain energy. <i>International Journal of Fatigue</i> , 2017, 104, 273-282.	5.7	43
26	A mean stress correction model for tensile and compressive mean stress fatigue loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 939-948.	3.4	82
27	Testing and fracture mechanics analysis of strength effects on the fatigue behavior of HFMI-treated welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 987-999.	2.5	10
28	Numerical validation of computational stress and strain analysis model for notched components subject to non-proportional loadings. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 84, 26-37.	4.7	30
29	Innovative computational modeling of multiaxial fatigue analysis for notched components. <i>International Journal of Fatigue</i> , 2016, 82, 134-145.	5.7	63
30	Fatigue Strength Improvement of Aluminum and High Strength Steel Welded Structures using High Frequency Mechanical Impact Treatment. <i>Procedia Engineering</i> , 2015, 133, 465-476.	1.2	13
31	A novel technique for multiaxial fatigue modelling of ground vehicle notched components. <i>International Journal of Vehicle Design</i> , 2015, 67, 294.	0.3	15
32	A generalized fatigue damage parameter for multiaxial fatigue life prediction under proportional and non-proportional loadings. <i>International Journal of Fatigue</i> , 2014, 62, 34-41.	5.7	137
33	Computational modeling of multiaxial elasto-plastic stress-strain response for notched components under non-proportional loading. <i>International Journal of Fatigue</i> , 2014, 62, 42-52.	5.7	46
34	A numerical method for elasto-plastic notch-root stress-strain analysis. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 229-244.	1.8	49
35	Load path sensitivity and fatigue life estimation of 30CrNiMo8HH. <i>International Journal of Fatigue</i> , 2012, 37, 123-133.	5.7	39
36	A modification of Morrow and Smith-Watson-Topper mean stress correction models. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011, 34, 854-867.	3.4	229

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37	Fatigue characterization and modeling of 30CrNiMo8HH under multiaxial loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2484-2494.	5.6	29
38	A Computational Multiaxial Model for Stress-Strain Analysis of Ground Vehicle Notched Components. SAE International Journal of Engines, 0, 10, 316-322.	0.4	10
39	Comparative Study of Neural Network-Based Models for Fatigue Crack Growth Predictions of Short Cracks. Journal of Peridynamics and Nonlocal Modeling, 0, , 1.	2.9	3
40	Fatigue Damage Modeling Approach Based on Evolutionary Power Spectrum Density. , 0, , .		7
41	Design and Development of an Ultrasonic Fatigue Testing System for Very High Cycle Fatigue. , 0, , .		1