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	A modification of Morrow and Smith-Watson-Topper mean stress correction models. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 854-867.	3.4	229
2	A generalized fatigue damage parameter for multiaxial fatigue life prediction under proportional and non-proportional loadings. International Journal of Fatigue, 2014, 62, 34-41.	5.7	137
3	A mean stress correction model for tensile and compressive mean stress fatigue loadings. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 939-948.	3.4	82
4	Innovative computational modeling of multiaxial fatigue analysis for notched components. International Journal of Fatigue, 2016, 82, 134-145.	5.7	63
5	Strain energy-based multiaxial fatigue life prediction under normal/shear stress interaction. International Journal of Damage Mechanics, 2019, 28, 708-739.	4.2	57
6	An artificial neural network modeling approach for short and long fatigue crack propagation. Computational Materials Science, 2020, 185, 109962.	3.0	50
7	A numerical method for elasto-plastic notch-root stressâ€“strain analysis. Journal of Strain Analysis for Engineering Design, 2013, 48, 229-244.	1.8	49
8	Computational modeling of multiaxial elasto-plastic stressâ€“strain response for notched components under non-proportional loading. International Journal of Fatigue, 2014, 62, 42-52.	5.7	46
9	A generalized mean stress correction model based on distortional strain energy. International Journal of Fatigue, 2017, 104, 273-282.	5.7	43
10	Deviatoric Neuber method for stress and strain analysis at notches under multiaxial loadings. International Journal of Fatigue, 2017, 102, 229-240.	5.7	40
11	Load path sensitivity and fatigue life estimation of 30CrNiMo8HH. International Journal of Fatigue, 2012, 37, 123-133.	5.7	39
12	Modeling approach for a unified crack growth model in short and long fatigue crack regimes. International Journal of Fatigue, 2019, 128, 105182.	5.7	38
13	Modeling and simulation of weld residual stresses and ultrasonic impact treatment of welded joints. Procedia Engineering, 2018, 213, 36-47.	1.2	32
14	Numerical validation of computational stress and strain analysis model for notched components subject to non-proportional loadings. Theoretical and Applied Fracture Mechanics, 2016, 84, 26-37.	4.7	30
15	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
16	Numerical modeling of residual stresses and fatigue damage assessment of ultrasonic impact treated 304L stainless steel welded joints. Engineering Failure Analysis, 2020, 108, 104277.	4.0	29
17	A modification of UniGrow 2â€parameter driving force model for short fatigue crack growth. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 45-60.	3.4	27
18	A short and long crack growth model based on 2-parameter driving force and crack growth thresholds. International Journal of Fatigue, 2020, 141, 105870.	5.7	27

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19	A unified frequency domain fatigue damage modeling approach for random-on-random spectrum. International Journal of Fatigue, 2019, 124, 123-137.	5.7	19
20	Crack growth modeling and simulation of a peridynamic fatigue model based on numerical and analytical solution approaches. Theoretical and Applied Fracture Mechanics, 2021, 114, 103026.	4.7	19
21	Very high cycle fatigue characterization of additively manufactured AlSi10Mg and AlSi7Mg aluminium alloys based on ultrasonic fatigue testing. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 876-884.	3.4	19
22	Finite elementâ€“based numerical modeling framework for additive manufacturing process. Material Design and Processing Communications, 2019, 1, e28.	0.9	18
23	A novel technique for multiaxial fatigue modelling of ground vehicle notched components. International Journal of Vehicle Design, 2015, 67, 294.	0.3	15
24	Fatigue Strength Improvement of Aluminum and High Strength Steel Welded Structures using High Frequency Mechanical Impact Treatment. Procedia Engineering, 2015, 133, 465-476.	1.2	13
25	Testing and fracture mechanics analysis of strength effects on the fatigue behavior of HFMI-treated welds. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 987-999.	2.5	10
26	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
27	Fatigue Crack Growth Behavior of the MIG Welded Joint of 06Cr19Ni10 Stainless Steel. Materials, 2018, 11, 1336.	2.9	10
28	Integration of artificial neural network with finite element analysis for residual stress prediction of direct metal deposition process. Materials Today Communications, 2021, 27, 102197.	1.9	10
29	Computational crack propagation modeling of welded structures under asâ€welded and high frequency mechanical impact (HFMI) treatment conditions. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 578-592.	3.4	10
30	The effect of strain strengthening on the mixed mode crack fatigue propagation in the HAZ of 06Cr19Ni10 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 341-347.	5.6	9
31	Fatigue Damage Modeling Approach Based on Evolutionary Power Spectrum Density. , 0, , .		7
32	Development of an ultrasonic fatigue testing system for gigacycle fatigue. Material Design and Processing Communications, 2020, 2, e120.	0.9	6
33	Approximation modeling framework for elastic-plastic stress-strain fields near cracks with a small finite crack tip radius. Theoretical and Applied Fracture Mechanics, 2022, 121, 103452.	4.7	6
34	Comparative Study of Neural Networkâ€“Based Models for Fatigue Crack Growth Predictions of Short Cracks. Journal of Peridynamics and Nonlocal Modeling, 0, , 1.	2.9	3
35	Assessment of fatigue crack growth based on 3D finite element modeling approach. Procedia Structural Integrity, 2022, 38, 271-282.	0.8	3
36	Short review on modeling approaches for metal additive manufacturing process. Material Design and Processing Communications, 2020, 2, e56.	0.9	2

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37	Integration of a peridynamic fatigue model with two-parameter crack driving force. Engineering With Computers, 2022, 38, 2859-2877.	6.1	2
38	A new modeling framework for fatigue damage of structural components under complex random spectrum. Procedia Structural Integrity, 2019, 19, 528-537.	0.8	1
39	Design and Development of an Ultrasonic Fatigue Testing System for Very High Cycle Fatigue. , 0, , .		1
40	Numerical Simulation of Residual Stresses in Welding and Ultrasonic Impact Treatment Process. , 2018, , .		0
41	Response to Comment on paper: A unified frequency domain fatigue damage modeling approach for random-on-random spectrum' [Z. Li and A. Ince. Int J Fatigue, 2019;124:123â€“137]. International Journal of Fatigue, 2020, 136, 105669.	5.7	0