

Zhixin Zhan

List of Publications by Year in descending order

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22
papers

432
citations

759233

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all docs

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docs citations

22
times ranked

207
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven fatigue life prediction in additive manufactured titanium alloy: A damage mechanics based machine learning framework. <i>Engineering Fracture Mechanics</i> , 2021, 252, 107850.	4.3	65
2	Continuum damage mechanics combined with the extended finite element method for the total life prediction of a metallic component. <i>International Journal of Mechanical Sciences</i> , 2017, 124-125, 48-58.	6.7	51
3	Development of a novel fatigue damage model with AM effects for life prediction of commonly-used alloys in aerospace. <i>International Journal of Mechanical Sciences</i> , 2019, 155, 110-124.	6.7	45
4	Continuum damage mechanics-based approach to the fatigue life prediction for 7050-T7451 aluminum alloy with impact pit. <i>International Journal of Damage Mechanics</i> , 2016, 25, 943-966.	4.2	39
5	Fatigue life calculation for a specimen with an impact pit considering impact damage, residual stress relaxation and elastic-plastic fatigue damage. <i>International Journal of Fatigue</i> , 2017, 96, 208-223.	5.7	35
6	The fatigue life prediction for structure with surface scratch considering cutting residual stress, initial plasticity damage and fatigue damage. <i>International Journal of Fatigue</i> , 2015, 74, 173-182.	5.7	32
7	Continuum damage mechanics based approach to study the effects of the scarf angle, surface friction and clamping force over the fatigue life of scarf bolted joints. <i>International Journal of Fatigue</i> , 2017, 102, 59-78.	5.7	28
8	Defect-induced fatigue scattering and assessment of additively manufactured 300M-AerMet100 steel: An investigation based on experiments and machine learning. <i>Engineering Fracture Mechanics</i> , 2022, 264, 108352.	4.3	27
9	Experiments and numerical simulations for the fatigue behavior of a novel TA2-TA15 titanium alloy fabricated by laser melting deposition. <i>International Journal of Fatigue</i> , 2019, 121, 20-29.	5.7	22
10	Damage mechanics-based approach to studying effects of overload on fatigue life of notched specimens. <i>International Journal of Damage Mechanics</i> , 2019, 28, 538-565.	4.2	17
11	Fatigue life calculation for TC4-TC11 titanium alloy specimens fabricated by laser melting deposition. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 96, 114-122.	4.7	15
12	A novel continuum damage mechanics-based approach for thermal corrosion fatigue (TCF) life prediction of aluminum alloys. <i>International Journal of Fatigue</i> , 2022, 163, 107065.	5.7	13
13	Development of a non-local approach for life prediction of notched specimen considering stress/strain gradient and elastic-plastic fatigue damage. <i>International Journal of Damage Mechanics</i> , 2022, 31, 1057-1081.	4.2	9
14	Experimental method for and theoretical research on defect tolerance of fixed plate based on damage mechanics. <i>Chinese Journal of Aeronautics</i> , 2013, 26, 1195-1201.	5.3	8
15	Fatigue tests and damage model development on Al-Si-Mg aluminum alloys with low-velocity impact pit. <i>International Journal of Fatigue</i> , 2021, 153, 106466.	5.7	7
16	Fatigue life and defect tolerance calculation for specimens with foreign object impact and scratch damage. <i>Archive of Applied Mechanics</i> , 2018, 88, 373-390.	2.2	6
17	How molecular interactions tune the characteristic time of nanocomposite colloidal sensors. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 668-678.	9.4	5
18	Revised damage evolution equation for high cycle fatigue life prediction of aluminum alloy LC4 under uniaxial loading. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 1185-1196.	3.6	4

#	ARTICLE	IF	CITATIONS
19	Dynamic modeling based on fuzzy Neural Network for a billiard robot. , 2016, , .		2
20	A damage mechanics-based fatigue life prediction approach for 30crmsia alloy steel with impact defect. , 2015, , .		1
21	Modeling the response characteristics of photo-sensitive hydrogel electrolytes in Hofmeister salt solution for the development of smart energy storage devices. Sustainable Energy and Fuels, 2020, 4, 6112-6124.	4.9	1
22	Evaluation of Vibration Properties of Three-Dimensional, Four-Directional Braided Composites. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2017, 15, a67-a73.	0.2	0