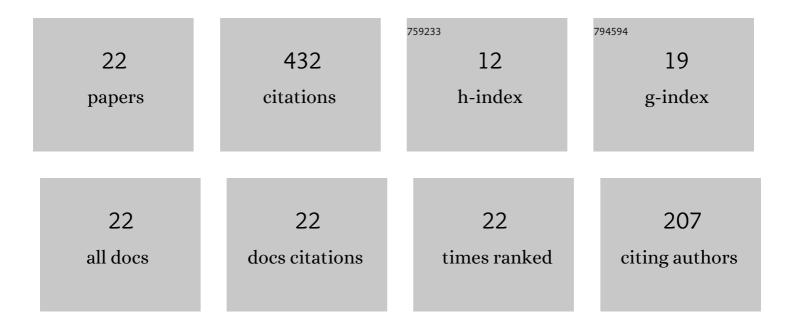
Zhixin Zhan

List of Publications by Year in descending order

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ΖΗΙΥΙΝ ΖΗΛΝ

#	Article	IF	CITATIONS
1	Data-driven fatigue life prediction in additive manufactured titanium alloy: A damage mechanics based machine learning framework. Engineering Fracture Mechanics, 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. International Journal of Mechanical Sciences, 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. International Journal of Mechanical Sciences, 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. International Journal of Damage Mechanics, 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. International Journal of Fatigue, 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. International Journal of Fatigue, 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. International Journal of Fatigue, 2017, 102, 59-78.	5.7	28
8	Defectâ€induced fatigue scattering and assessment of additively manufactured 300M-AerMet100 steel: An investigation based on experiments and machine learning. Engineering Fracture Mechanics, 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. International Journal of Fatigue, 2019, 121, 20-29.	5.7	22
10	Damage mechanics-based approach to studying effects of overload on fatigue life of notched specimens. International Journal of Damage Mechanics, 2019, 28, 538-565.	4.2	17
11	Fatigue life calculation for TC4-TC11 titanium alloy specimens fabricated by laser melting deposition. Theoretical and Applied Fracture Mechanics, 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. International Journal of Fatigue, 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. International Journal of Damage Mechanics, 2022, 31, 1057-1081.	4.2	9
14	Experimental method for and theoretical research on defect tolerance of fixed plate based on damage mechanics. Chinese Journal of Aeronautics, 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. International Journal of Fatigue, 2021, 153, 106466.	5.7	7
16	Fatigue life and defect tolerance calculation for specimens with foreign object impact and scratch damage. Archive of Applied Mechanics, 2018, 88, 373-390.	2.2	6
17	How molecular interactions tune the characteristic time of nanocomposite colloidal sensors. Journal of Colloid and Interface Science, 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. Applied Mathematics and Mechanics (English Edition), 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 30crmnsia 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