Rui Bao

List of Publications by Year
in descending order

23 papers	401 citations	840776 11 h-index	752698 20 g-index
24 all docs	24 docs citations	24 times ranked	307 citing authors

#	Article	IF	Citations
1	Evaluating stress intensity factors due to weld residual stresses by the weight function and finite element methods. Engineering Fracture Mechanics, 2010, 77, 2550-2566.	4.3	67
2	Fatigue crack growth behaviour and life prediction for 2324-T39 and 7050-T7451 aluminium alloys under truncated load spectra. International Journal of Fatigue, 2010, 32, 1180-1189.	5.7	34
3	Crack growth behaviour of a nickel-based powder metallurgy superalloy under elevated temperature. International Journal of Fatigue, 2011, 33, 632-641.	5.7	34
4	A fast and efficient numerical prediction of compression after impact (CAI) strength of composite laminates and structures. Thin-Walled Structures, 2020, 148, 106588.	5.3	33
5	Plastic anisotropy of laser melting deposited Tiâ€"5Alâ€"5Moâ€"5Vâ€"1Crâ€"1Fe titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 276-289.	5.6	26
6	A creepâ€"fatigue crack growth model containing temperature and interactive effects. International Journal of Fatigue, 2014, 59, 34-42.	5.7	24
7	Effect of primary α phase on the fatigue crack path of laser melting deposited Tiâ€"5Alâ€"5Moâ€"5Vâ€"1Crâ€"1Fe near β titanium alloy. International Journal of Fatigue, 2018, 116, 535-542.	5.7	24
8	Fatigue crack branching in laser melting deposited Tiâ€"55511 alloy. International Journal of Fatigue, 2019, 124, 217-226.	5.7	24
9	Fatigue crack growth behaviour in laser melting deposited Ti-6.5Al-3.5Mo-1.5Zr-0.3Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 378-386.	5.6	22
10	The effects of α/β phase interfaces on fatigue crack deflections in additively manufactured titanium alloy: A peridynamic study. International Journal of Fatigue, 2020, 137, 105622.	5.7	17
11	Fatigue crack tip strain evolution and crack growth prediction under single overload in laser melting deposited Ti-6.5Al-3.5Mo-1.5Zr-0.3Si titanium alloy. International Journal of Fatigue, 2018, 116, 462-472.	5.7	16
12	Effects of different surface treatments on the cyclic fatigue strength of one-piece CAD/CAM zirconia implants. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 249-257.	3.1	11
13	Residual stress evaluation in welded large thin-walled structures based on eigenstrain analysis and small sample residual stress measurement. Thin-Walled Structures, 2018, 131, 782-791.	5.3	11
14	A probabilistic estimation method of multiple site damage occurrence for aircraft structures. Procedia Engineering, 2010, 2, 1115-1124.	1.2	10
15	Fatigue crack growth measurement in a superalloy at elevated temperature. International Journal of Fatigue, 2013, 47, 189-195.	5.7	10
16	Load effects on macroscopic scale fatigue crack growth path in 2324-T39 aluminium alloy thin plates. International Journal of Fatigue, 2014, 58, 193-201.	5.7	10
17	A modified loading method for separating the effect of residual stress on fatigue crack growth rate of welded joints. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1227-1239.	3.4	9
18	Evaluation of the intrinsic crack growth rates of weld joints. International Journal of Fatigue, 2011, 33, 588-596.	5.7	6

#	Article	IF	Citations
19	The grain orientation effects on crack-tip fields for additively manufactured titanium alloy: A peridynamic study. Theoretical and Applied Fracture Mechanics, 2020, 107, 102555.	4.7	5
20	A new class of mechanism-equivalence-based Wiener process models for reliability analysis. IISE Transactions, 2023, 55, 129-146.	2.4	5
21	Study of methods for evaluating the probability of multiple site damage occurrences. Science China: Physics, Mechanics and Astronomy, 2014, 57, 65-73.	5.1	2
22	Mechanism equivalence analysis for accelerated degradation tests based on tweedie exponential dispersion process. Quality Technology and Quantitative Management, 0, , 1-27.	1.9	1
23	Prediction of low‑velocity impact dent for composite laminates based on an anisotropic elastoplastic damage model. Polymer Composites, 2021, 42, 6887.	4.6	0