Guian

List of Publications by Year in descending order

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42 papers	1,200 citations	361413 20 h-index	377865 34 g-index
42 all docs	42 docs citations	42 times ranked	651 citing authors

#	Article	IF	Citations
1	Very-high-cycle fatigue behavior of Ti-6Al-4V manufactured by selective laser melting: Effect of build orientation. International Journal of Fatigue, 2020, 136, 105628.	5.7	82
2	On the temperature independence of statistical model parameters for cleavage fracture in ferritic steels. Philosophical Magazine, 2018, 98, 959-1004.	1.6	78
3	Comparison of constraint analyses with global and local approaches under uniaxial and biaxial loadings. European Journal of Mechanics, A/Solids, 2018, 69, 135-146.	3.7	68
4	In-situ SEM investigation on fatigue behaviors of additive manufactured Al-Si10-Mg alloy at elevated temperature. Engineering Fracture Mechanics, 2019, 214, 149-163.	4.3	63
5	Statistical assessment of notch toughness against cleavage fracture of ferritic steels. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1120-1131.	3.4	62
6	In-situ investigation on fatigue behaviors of Ti-6Al-4V manufactured by selective laser melting. International Journal of Fatigue, 2020, 133, 105424.	5.7	60
7	Procedures, methods and computer codes for the probabilistic assessment of reactor pressure vessels subjected to pressurized thermal shocks. Nuclear Engineering and Design, 2013, 258, 35-50.	1.7	55
8	Deterministic and probabilistic analysis of a reactor pressure vessel subjected to pressurized thermal shocks. Nuclear Engineering and Design, 2014, 273, 381-395.	1.7	54
9	Probabilistic analysis of pipelines with corrosion defects by using FITNET FFS procedure. Corrosion Science, 2011, 53, 855-861.	6.6	51
10	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selective laser melting: Effect of build orientation and mean stress. International Journal of Fatigue, 2020, 138, 105696.	5.7	51
11	Influence of processing parameters of selective laser melting on highâ€cycle and veryâ€highâ€cycle fatigue behaviour of Tiâ€6Alâ€4V. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 240-256.	3.4	50
12	Integrity analysis of a reactor pressure vessel subjected to pressurized thermal shocks by considering constraint effect. Engineering Fracture Mechanics, 2013, 112-113, 14-25.	4.3	49
13	Deformation mechanism of innovative 3D chiral metamaterials. Scientific Reports, 2018, 8, 12575.	3.3	48
14	In-plane and out-of-plane constraint effects under pressurized thermal shocks. International Journal of Solids and Structures, 2014, 51, 1311-1321.	2.7	44
15	Statistical size scaling of breakage strength of irregularly-shaped particles. Theoretical and Applied Fracture Mechanics, 2019, 102, 51-58.	4.7	32
16	Mechanical Properties of 3D Isotropic Antiâ€Tetrachiral Metastructure. Physica Status Solidi (B): Basic Research, 2018, 255, 1700343.	1.5	29
17	Comparison of PTS analyses of RPVs based on 3D-CFD and RELAP5. Nuclear Engineering and Design, 2015, 291, 168-178.	1.7	28
18	Effect of nonâ€uniform reactor cooling on fracture and constraint of a reactor pressure vessel. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1559-1575.	3.4	27

#	Article	IF	Citations
19	Calibration of Beremin model with the Master Curve. Engineering Fracture Mechanics, 2015, 136, 15-25.	4.3	22
20	Probabilistic assessment of a reactor pressure vessel subjected to pressurized thermal shocks by using crack distributions. Nuclear Engineering and Design, 2014, 270, 312-324.	1.7	21
21	Integrity analysis of a reactor pressure vessel subjected to a realistic pressurized thermal shock considering the cooling plume and constraint effects. Engineering Fracture Mechanics, 2016, 162, 201-217.	4.3	20
22	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2919-2943.	3.4	20
23	Irradiation effect on impact fracture behavior of A508-3 steel in ductile-to-brittle transition range. Engineering Failure Analysis, 2019, 97, 836-843.	4.0	19
24	Probabilistic fracture assessment of piping systems based on FITNET FFS procedure. Nuclear Engineering and Design, 2011, 241, 714-722.	1.7	17
25	Fatigue failures from defects in additive manufactured components: A statistical methodology for the analysis of the experimental results. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1944-1960.	3.4	15
26	Coupled RELAP5, 3D CFD and FEM analysis of postulated cracks in RPVs subjected to PTS loading. Nuclear Engineering and Design, 2016, 297, 111-122.	1.7	14
27	Nonâ€proportional size scaling of strength of concrete in uniaxial and biaxial loading conditions. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1733-1745.	3.4	14
28	Investigation of constraint and warm prestressing effects by means of a local approach to fracture. Engineering Fracture Mechanics, 2015, 136, 26-37.	4.3	13
29	Specimen size effect on the ductile-brittle transition reference temperature of A508-3 steel. Theoretical and Applied Fracture Mechanics, 2019, 104, 102370.	4.7	13
30	Fatigue model of domestic 316LN steel in simulated primary coolant environment of CAP1400. International Journal of Fatigue, 2020, 130, 105297.	5.7	13
31	Effects of embedded cracks and residual stresses on the integrity of a reactor pressure vessel. Engineering Failure Analysis, 2018, 90, 451-462.	4.0	12
32	Calibration of a new local approach to cleavage fracture of ferritic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 694, 10-12.	5.6	10
33	A Statistical Model of Cleavage Fracture Toughness of Ferritic Steel DIN 22NiMoCr37 at Different Temperatures. Materials, 2019, 12, 982.	2.9	10
34	C(t) dominance of the mixed I/II creep crack: Part I. Transient creep. Theoretical and Applied Fracture Mechanics, 2019, 103, 102314.	4.7	7
35	Weibull stress analysis in local approach to fracture. Theoretical and Applied Fracture Mechanics, 2019, 104, 102379.	4.7	7
36	A simplified method for parameters calibration of the new local approach model for cleavage fracture in a ferritic steel. Theoretical and Applied Fracture Mechanics, 2019, 100, 426-433.	4.7	5

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37	Probabilistic ageing and risk analysis tools for nuclear piping. Nuclear Engineering and Design, 2016, 300, 541-551.	1.7	4
38	Probabilistic Pressurized Thermal Shock Analysis for a Reactor Pressure Vessel Considering Plume Cooling Effect. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.6	4
39	C(t) dominance of the mixed I/II creep crack: Part II. Extensive creep. Theoretical and Applied Fracture Mechanics, 2020, 106, 102489.	4.7	4
40	Study on cleavage fracture probability-load curves of ferritic steel 20MnMoNi55 by using the new local approach model. International Journal of Pressure Vessels and Piping, 2019, 178, 103999.	2.6	2
41	Weibull Modulus of Cleavage Fracture Toughness of Ferritic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1503-1515.	2.2	2
42	A new local approach to cleavage fracture and its application in a reactor pressure vessel. Procedia Structural Integrity, 2018, 13, 2174-2179.	0.8	1