

Carlos Navarro

List of Publications by Year in descending order

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43
papers

983
citations

430874

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454955

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43
all docs

43
docs citations

43
times ranked

381
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue behaviour of PBF additive manufactured Ti6Al4V alloy after shot and laser peening. International Journal of Fatigue, 2022, 154, 106536.	5.7	39
2	A fretting fatigue model based on self-steered cracks. Theoretical and Applied Fracture Mechanics, 2022, 117, 103144.	4.7	8
3	3D contact effects in fretting fatigue tests. Theoretical and Applied Fracture Mechanics, 2022, 118, 103260.	4.7	6
4	Rolling effect in fretting fatigue test at the crack initiation stage. Procedia Structural Integrity, 2022, 39, 104-110.	0.8	1
5	Influence of the rolling of contact pads on crack initiation in fretting fatigue tests. International Journal of Fatigue, 2022, 163, 107087.	5.7	7
6	Optimal shot peening residual stress profile for fatigue. Theoretical and Applied Fracture Mechanics, 2021, 116, 103109.	4.7	5
7	Experimental and numerical analysis of fatigue cracks emanating from internal defects in Ti6Al4V SLM. Procedia Structural Integrity, 2021, 34, 121-128.	0.8	4
8	Effect of shot peening residual stresses and surface roughness on fretting fatigue strength of Al 7075-T651. Tribology International, 2020, 142, 106004.	5.9	63
9	Fatigue and fracture analysis of a seven-wire stainless steel strand under axial and bending loads. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 149-161.	3.4	23
10	Numerical analysis of toroidal voids as stress relievers in shrink-fitted shafts. Tribology International, 2020, 143, 105996.	5.9	9
11	Numerical study on the influence of artificial internal stress relief groove on fretting fatigue in a shrink-fitted assembly. Tribology International, 2020, 151, 106443.	5.9	17
12	Fretting-Fatigue Analysis of Shot-Peened Al 7075-T651 Test Specimens. Metals, 2019, 9, 586.	2.3	22
13	New fatigue device for testing cables: Design and results. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1826-1837.	3.4	10
14	On the prediction of the crack initiation path in fretting fatigue. Theoretical and Applied Fracture Mechanics, 2019, 99, 140-146.	4.7	14
15	Internal voids as a stress reliever and palliative in fretting fatigue. Procedia Engineering, 2018, 213, 846-855.	1.2	3
16	Voids as stress relievers and a palliative in fretting. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2475-2484.	3.4	12
17	Nucleation and early crack path in fretting fatigue. International Journal of Fatigue, 2017, 100, 602-610.	5.7	32
18	Analysis of fretting fatigue initial crack path in Al7075-T651 using cylindrical contact. Tribology International, 2017, 108, 87-94.	5.9	38

#	ARTICLE	IF	CITATIONS
19	Two dimensional versus three dimensional modelling in fretting fatigue life prediction. Journal of Strain Analysis for Engineering Design, 2016, 51, 109-117.	1.8	21
20	Fracture mechanics approach to fretting fatigue behaviour of coated aluminium alloy components. Journal of Strain Analysis for Engineering Design, 2014, 49, 66-75.	1.8	7
21	Life Assessment in Fretting Fatigue. Key Engineering Materials, 2014, 618, 99-122.	0.4	2
22	Explicit equations for the half-plane sub-surface stress field under a flat rounded contact. Journal of Strain Analysis for Engineering Design, 2014, 49, 562-570.	1.8	10
23	Fatigue life estimation in dental implants. Engineering Fracture Mechanics, 2014, 123, 34-43.	4.3	25
24	3D vs. 2D fatigue crack initiation and propagation in notched plates. International Journal of Fatigue, 2014, 58, 40-46.	5.7	23
25	A model to predict fretting fatigue life including residual stresses. Theoretical and Applied Fracture Mechanics, 2014, 73, 144-151.	4.7	32
26	Explicit equations for sub-surface stress field in plane contacts. International Journal of Mechanical Sciences, 2013, 67, 53-58.	6.7	8
27	Analysis of the effect of a textured surface on fretting fatigue. Wear, 2013, 305, 23-35.	3.1	31
28	Analytical solution for a cylindrical contact with reverse slip. Journal of Strain Analysis for Engineering Design, 2013, 48, 189-197.	1.8	10
29	A new method for obtaining the stress field in plane contacts. International Journal of Solids and Structures, 2012, 49, 3659-3665.	2.7	16
30	Experimental results in fretting fatigue with shot and laser peened Al 7075-T651 specimens. International Journal of Fatigue, 2012, 40, 143-153.	5.7	70
31	Influence of the Initiation Length in Predictions of Life in Fretting Fatigue. Strain, 2011, 47, e283.	2.4	7
32	A general model to estimate life in notches and fretting fatigue. Engineering Fracture Mechanics, 2011, 78, 1590-1601.	4.3	50
33	Fretting fatigue life prediction using the extended finite element method. International Journal of Mechanical Sciences, 2011, 53, 217-225.	6.7	39
34	On the estimation of fatigue life in notches differentiating the phases of crack initiation and propagation. Fatigue and Fracture of Engineering Materials and Structures, 2010, 33, 22-36.	3.4	20
35	Analysis of crack evolution in fretting fatigue with spherical contact. Journal of Strain Analysis for Engineering Design, 2009, 44, 503-515.	1.8	6
36	On the use of multiaxial fatigue criteria for fretting fatigue life assessment. International Journal of Fatigue, 2008, 30, 32-44.	5.7	118

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37	Application of fracture mechanics to estimate fretting fatigue endurance curves. Engineering Fracture Mechanics, 2007, 74, 2168-2186.	4.3	43
38	Propagation in fretting fatigue from a surface defect. Tribology International, 2006, 39, 1149-1157.	5.9	36
39	Initiation criteria in fretting fatigue with spherical contact. International Journal of Fatigue, 2004, 26, 1253-1262.	5.7	16
40	The influence of underlying tension on partial slip in complete and nearly complete contacts. International Journal of Mechanical Sciences, 2003, 45, 757-773.	6.7	11
41	The effect of a corner radius on an asymptotic solution to the fretting of complete contacts including the plastic process zone. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 223-228.	3.4	1
42	A procedure for estimating the total life in fretting fatigue. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 459-468.	3.4	54
43	Fretting fatigue in a spherical contact. Journal of Strain Analysis for Engineering Design, 2002, 37, 469-478.	1.8	14