

Pablo LÃ³pez Crespo

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,134
citations

331670

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395702

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52
all docs

52
docs citations

52
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical plane based method for multiaxial fatigue analysis of 316 stainless steel. Theoretical and Applied Fracture Mechanics, 2022, 118, 103273.	4.7	14
2	Fatigue crack propagation studies based on the plastic component of the CTOD evaluated from Digital Image Correlation data. Procedia Structural Integrity, 2022, 39, 347-363.	0.8	0
3	On the use of the plastic component of the CTOD for fatigue analysis in austenitic stainless steel. Procedia Structural Integrity, 2022, 37, 964-976.	0.8	0
4	Characterisation of the crack tip plastic zone in fatigue via synchrotron X-ray diffraction. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2086-2098.	3.4	3
5	Fatigue crack propagation analysis in 2024-T351 aluminium alloy using nonlinear parameters. International Journal of Fatigue, 2021, 153, 106478.	5.7	16
6	Estimation of the Plastic Zone in Fatigue via Micro-Indentation. Materials, 2021, 14, 5885.	2.9	4
7	Study of the biaxial fatigue behaviour and overloads on S355 low carbon steel. International Journal of Fatigue, 2020, 134, 105466.	5.7	16
8	Numerical simulations of carbon/epoxy laminated composites under various loading rates, comparing extended finite element method and cohesive zone modeling. Material Design and Processing Communications, 2020, , e198.	0.9	2
9	High-strength low-modulus biocompatible Nb-1Zr alloy processed by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140226.	5.6	7
10	Evaluation of the SIF and T-stress values of the Brazilian disc with a central notch by hybrid method. International Journal of Fatigue, 2020, 135, 105562.	5.7	22
11	The effect of grain size on the fatigue overload behaviour of nickel. Materials and Design, 2020, 189, 108526.	7.0	21
12	Influence of the constraint effect on the fatigue crack growth rate in S355 J2 steel using digital image correlation. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1703-1718.	3.4	10
13	On the perceptions of students and professors in the implementation of an inter-university engineering PBL experience. European Journal of Engineering Education, 2019, 44, 726-744.	2.3	3
14	Effects of loading rate on crack growth behavior in carbon fiber reinforced polymer composites using digital image correlation technique. Composites Part B: Engineering, 2019, 175, 107161.	12.0	13
15	Estimation of the opening load under variable amplitude loading. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2194-2203.	3.4	3
16	On the Behaviour of 316 and 304 Stainless Steel under Multiaxial Fatigue Loading: Application of the Critical Plane Approach. Metals, 2019, 9, 978.	2.3	7
17	Estimation of the plastic zone in fatigue through the thickness based on synchrotron diffraction data. Procedia Structural Integrity, 2019, 17, 872-877.	0.8	1
18	Multiaxial Fatigue Analysis of Stainless Steel Used in Marine Structures. Structural Integrity, 2019, , 279-285.	1.4	0

#	ARTICLE	IF	CITATIONS
19	In situ through-thickness analysis of crack tip fields with synchrotron X-ray diffraction. <i>International Journal of Fatigue</i> , 2019, 127, 500-508.	5.7	10
20	Investigation of the multiaxial fatigue behaviour of 316 stainless steel based on critical plane method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1633-1645.	3.4	8
21	Recent progress on experimental characterisation of fatigue and fracture behaviour of materials. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 363-363.	1.8	0
22	Approximation of the crack-tip field in fatigue cracks in bridge steel specimens: DIC analysis of different constraint levels. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 97-106.	0.9	0
23	Multiaxial Fatigue Life Prediction on S355 Structural and Offshore Steel Using the SKS Critical Plane Model. <i>Metals</i> , 2018, 8, 1060.	2.3	24
24	Synchrotron X-ray diffraction based method for stress intensity factor evaluation in the bulk of materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 72-77.	4.7	9
25	A study of the evolution of crack tip plasticity along a crack front. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 59-66.	4.7	27
26	Multi-approach study of crack-tip mechanics on aluminium 2024 alloy. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 38-47.	4.7	17
27	Stress intensity factor monitoring under cyclic loading by digital image correlation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2162-2171.	3.4	29
28	Williams' expansion-based approximation of the displacement field in an Al 2024 compact tension specimen reconstructed from optical measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2187-2196.	3.4	3
29	Numerical and experimental study of the plastic zone in cracked specimens. <i>Engineering Fracture Mechanics</i> , 2017, 185, 20-32.	4.3	35
30	Optical and analytical investigation of overloads in biaxial fatigue cracks. <i>International Journal of Fatigue</i> , 2017, 100, 583-590.	5.7	35
31	Characterisation of overloads in fatigue by 2D strain mapping at the surface and in the bulk. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 1040-1048.	3.4	25
32	Evaluation of crack-tip fields from DIC data: A parametric study. <i>International Journal of Fatigue</i> , 2016, 89, 11-19.	5.7	71
33	Estimations of fatigue life and variability under random loading in aluminum Al-2024T351 using strip yield models from NASGRO. <i>International Journal of Fatigue</i> , 2016, 91, 414-422.	5.7	26
34	Study of crack orientation and fatigue life prediction in biaxial fatigue with critical plane models. <i>Engineering Fracture Mechanics</i> , 2015, 136, 115-130.	4.3	62
35	Some observations on short fatigue cracks under biaxial fatigue. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 96-103.	4.7	6
36	Measuring overload effects during fatigue crack growth in bainitic steel by synchrotron X-ray diffraction. <i>International Journal of Fatigue</i> , 2015, 71, 11-16.	5.7	51

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37	Characterisation of crack-tip fields in biaxial fatigue based on high-magnification image correlation and electro-spray technique. <i>International Journal of Fatigue</i> , 2015, 71, 17-25.	5.7	26
38	Study of short cracks under biaxial fatigue. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 244-251.	0.9	1
39	Overload effects on fatigue crack-tip fields under plane stress conditions: surface and bulk analysis. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 75-84.	3.4	48
40	Locating the Crack Tip Using Displacement Field Data: A Comparative Study. <i>Strain</i> , 2013, 49, 102-115.	2.4	50
41	Stress intensity factor analysis of through thickness effects. <i>International Journal of Fatigue</i> , 2013, 46, 58-66.	5.7	42
42	Effect of overload on crack closure in thick and thin specimens via digital image correlation. <i>International Journal of Fatigue</i> , 2013, 56, 17-24.	5.7	62
43	Evolution of crack-bridging and crack-tip driving force during the growth of a fatigue crack in a Ti/SiC composite. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 2722-2743.	2.1	27
44	The Use of Diffraction to Study Fatigue Crack Tip Mechanics. <i>Materials Science Forum</i> , 2010, 652, 216-221.	0.3	8
45	Study of a Crack at a Fastener Hole by Digital Image Correlation. <i>Experimental Mechanics</i> , 2009, 49, 551-559.	2.0	53
46	Some experimental observations on crack closure and crack-tip plasticity. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 418-429.	3.4	63
47	A multi-scale approach to condense the cyclic elastic-plastic behaviour of the crack tip region into an extended constitutive model. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 899-915.	3.4	23
48	The stress intensity of mixed mode cracks determined by digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2008, 43, 769-780.	1.8	111
49	Numerical Analysis of Crack Tip Plasticity and History Effects under Mixed Mode Conditions. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2008, 2, 1567-1576.	0.5	19
50	Mixed Mode (K_I & K_{II}) Stress Intensity Factor Measurement by Electronic Speckle Pattern Interferometry and Image Correlation. <i>Applied Mechanics and Materials</i> , 2004, 1-2, 107-112.	0.2	16