

P Lopez-Crespo

List of Publications by Year in descending order

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papers

991
citations

430874

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43
docs citations

43
times ranked

464
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Evaluation of crack-tip fields from DIC data: A parametric study. <i>International Journal of Fatigue</i> , 2016, 89, 11-19.	5.7	71
3	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
4	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
5	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
6	Study of a Crack at a Fastener Hole by Digital Image Correlation. <i>Experimental Mechanics</i> , 2009, 49, 551-559.	2.0	53
7	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
8	Locating the Crack Tip Using Displacement Field Data: A Comparative Study. <i>Strain</i> , 2013, 49, 102-115.	2.4	50
9	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
10	Stress intensity factor analysis of through thickness effects. <i>International Journal of Fatigue</i> , 2013, 46, 58-66.	5.7	42
11	Numerical and experimental study of the plastic zone in cracked specimens. <i>Engineering Fracture Mechanics</i> , 2017, 185, 20-32.	4.3	35
12	Optical and analytical investigation of overloads in biaxial fatigue cracks. <i>International Journal of Fatigue</i> , 2017, 100, 583-590.	5.7	35
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Multi-approach study of crack-tip mechanics on aluminium 2024 alloy. Theoretical and Applied Fracture Mechanics, 2018, 98, 38-47.	4.7	17
20	Study of the biaxial fatigue behaviour and overloads on S355 low carbon steel. International Journal of Fatigue, 2020, 134, 105466.	5.7	16
21	Fatigue crack propagation analysis in 2024-T351 aluminium alloy using nonlinear parameters. International Journal of Fatigue, 2021, 153, 106478.	5.7	16
22	Critical plane based method for multiaxial fatigue analysis of 316 stainless steel. Theoretical and Applied Fracture Mechanics, 2022, 118, 103273.	4.7	14
23	On the Use of NASGRO Software to Estimate Fatigue Crack Growth under Variable Amplitude Loading in Aluminium Alloy 2024-T351. Procedia Engineering, 2015, 101, 302-311.	1.2	11
24	An efficient procedure for reducing in-line-inspection datasets for structural integrity assessments. Theoretical and Applied Fracture Mechanics, 2018, 93, 79-87.	4.7	10
25	In situ through-thickness analysis of crack tip fields with synchrotron X-ray diffraction. International Journal of Fatigue, 2019, 127, 500-508.	5.7	10
26	Synchrotron X-ray diffraction based method for stress intensity factor evaluation in the bulk of materials. Theoretical and Applied Fracture Mechanics, 2018, 98, 72-77.	4.7	9
27	Study of the notch fatigue behaviour under biaxial conditions of maraging steel produced by selective laser melting. Theoretical and Applied Fracture Mechanics, 2022, 121, 103469.	4.7	9
28	Mathematical and numerical correction of the DIC displacements for determination of stress field along crack front. Procedia Structural Integrity, 2016, 2, 2650-2658.	0.8	8
29	On the applicability of the cumulative strain energy density for notch fatigue analysis under multiaxial loading. Theoretical and Applied Fracture Mechanics, 2022, 120, 103405.	4.7	8
30	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
31	Some observations on short fatigue cracks under biaxial fatigue. Theoretical and Applied Fracture Mechanics, 2015, 80, 96-103.	4.7	6
32	Study of Fatigue Cracks with Numerical and Experimental Methods. Procedia Engineering, 2016, 160, 13-20.	1.2	4
33	Williams' expansion-based approximation of the displacement field in an Al 2024 compact tension specimen reconstructed from optical measurements. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2187-2196.	3.4	3
34	High magnification crack-tip field characterisation under biaxial conditions. Frattura Ed Integrita Strutturale, 2013, 7, 145-152.	0.9	2
35	Study of short cracks under biaxial fatigue. Frattura Ed Integrita Strutturale, 2014, 8, 244-251.	0.9	1
36	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

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37	Determination of the Parameters of the Two-Parametric Fracture Mechanics along the Crack Front Based on the Digital Image Correlation Data. Inorganic Materials, 2017, 53, 1562-1569.	0.8	0
38	Multiaxial Fatigue Analysis of Stainless Steel Used in Marine Structures. Structural Integrity, 2019, , 279-285.	1.4	0
39	Influence of plastic wake length on results of 3D numerical modelling of plasticity induced crack closure. Procedia Structural Integrity, 2019, 23, 607-612.	0.8	0
40	Propagation of notch fatigue cracks on maraging steel under biaxial conditions. Procedia Structural Integrity, 2022, 39, 509-514.	0.8	0
41	Combined approach for fatigue crack characterisation in metals. Procedia Structural Integrity, 2022, 37, 865-872.	0.8	0
42	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