

P Lopez-Crespo

List of Publications by Year in descending order

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43
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464
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	Propagation of notch fatigue cracks on maraging steel under biaxial conditions. Procedia Structural Integrity, 2022, 39, 509-514.	0.8	0
3	Combined approach for fatigue crack characterisation in metals. Procedia Structural Integrity, 2022, 37, 865-872.	0.8	0
4	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
5	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
6	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
7	Fatigue crack propagation analysis in 2024-T351 aluminium alloy using nonlinear parameters. International Journal of Fatigue, 2021, 153, 106478.	5.7	16
8	Study of the biaxial fatigue behaviour and overloads on S355 low carbon steel. International Journal of Fatigue, 2020, 134, 105466.	5.7	16
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	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
11	Multiaxial Fatigue Analysis of Stainless Steel Used in Marine Structures. Structural Integrity, 2019, , 279-285.	1.4	0
12	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
13	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
14	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
15	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
16	A study of the evolution of crack tip plasticity along a crack front. Theoretical and Applied Fracture Mechanics, 2018, 98, 59-66.	4.7	27
17	Multi-approach study of crack-tip mechanics on aluminium 2024 alloy. Theoretical and Applied Fracture Mechanics, 2018, 98, 38-47.	4.7	17
18	Stress intensity factor monitoring under cyclic loading by digital image correlation. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2162-2171.	3.4	29

#	ARTICLE	IF	CITATIONS
19	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
20	Numerical and experimental study of the plastic zone in cracked specimens. <i>Engineering Fracture Mechanics</i> , 2017, 185, 20-32.	4.3	35
21	Optical and analytical investigation of overloads in biaxial fatigue cracks. <i>International Journal of Fatigue</i> , 2017, 100, 583-590.	5.7	35
22	Determination of the Parameters of the Two-Parametric Fracture Mechanics along the Crack Front Based on the Digital Image Correlation Data. <i>Inorganic Materials</i> , 2017, 53, 1562-1569.	0.8	0
23	Study of Fatigue Cracks with Numerical and Experimental Methods. <i>Procedia Engineering</i> , 2016, 160, 13-20.	1.2	4
24	Mathematical and numerical correction of the DIC displacements for determination of stress field along crack front. <i>Procedia Structural Integrity</i> , 2016, 2, 2650-2658.	0.8	8
25	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
26	Evaluation of crack-tip fields from DIC data: A parametric study. <i>International Journal of Fatigue</i> , 2016, 89, 11-19.	5.7	71
27	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
28	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
29	On the Use of NASGRO Software to Estimate Fatigue Crack Growth under Variable Amplitude Loading in Aluminium Alloy 2024-T351. <i>Procedia Engineering</i> , 2015, 101, 302-311.	1.2	11
30	Some observations on short fatigue cracks under biaxial fatigue. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 96-103.	4.7	6
31	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
32	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
33	Study of short cracks under biaxial fatigue. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 244-251.	0.9	1
34	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
35	Locating the Crack Tip Using Displacement Field Data: A Comparative Study. <i>Strain</i> , 2013, 49, 102-115.	2.4	50
36	Stress intensity factor analysis of through thickness effects. <i>International Journal of Fatigue</i> , 2013, 46, 58-66.	5.7	42

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37	Effect of overload on crack closure in thick and thin specimens via digital image correlation. International Journal of Fatigue, 2013, 56, 17-24.	5.7	62
38	High magnification crack-tip field characterisation under biaxial conditions. Frattura Ed Integrita Strutturale, 2013, 7, 145-152.	0.9	2
39	Study of a Crack at a Fastener Hole by Digital Image Correlation. Experimental Mechanics, 2009, 49, 551-559.	2.0	53
40	Some experimental observations on crack closure and crack tip plasticity. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 418-429.	3.4	63
41	A multi-scale approach to condense the cyclic elastic-plastic behaviour of the crack tip region into an extended constitutive model. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 899-915.	3.4	23
42	The stress intensity of mixed mode cracks determined by digital image correlation. Journal of Strain Analysis for Engineering Design, 2008, 43, 769-780.	1.8	111