Juan Carlos Matos Franco

List of Publications by Year
in descending order

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67	588	623734	677142
papers	citations	14 h-index	22 g-index

67	67	67	371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of near-tip fatigue crack path bifurcation in metallic materials. Procedia Structural Integrity, 2022, 39, 479-483.	0.8	0
2	A modified Paris Law approach to fatigue crack propagation in cold drawn pearlitic steel. Procedia Structural Integrity, 2022, 41, 718-723.	0.8	0
3	Hydrogen-Assisted Fatigue Propagation in Corner Cracks at Holes Located in Plates under Tensile Loading. Metals, 2021, 11, 552.	2.3	1
4	Numerical Modeling of Plasticity-Induced Fatigue Crack Growth Retardation Due to Deflection in the Near-Tip Area. Metals, 2021, 11, 541.	2.3	6
5	Stress Intensity Factors for Embedded, Surface, and Corner Cracks in Finite-Thickness Plates Subjected to Tensile Loading. Materials, 2021, 14, 2807.	2.9	1
6	Effect of the Crack Tip Bifurcation on the Plasticity-Induced Fatigue Propagation in Metallic Materials. Materials, 2021, 14, 3385.	2.9	3
7	Analysis of the Bauschinger Effect in Cold Drawn Pearlitic Steels. Metals, 2020, 10, 114.	2.3	11
8	Fatigue and fracture crack paths in spheroidized steel. Procedia Structural Integrity, 2020, 28, 2378-2381.	0.8	3
9	Hydrogen embrittlement and notch tensile strength of pearlitic steel: a numerical approach. Procedia Structural Integrity, 2020, 28, 2444-2449.	0.8	4
10	Stress intensity factor for an eccentric circular inner crack in a round bar subjected to tensile loading. Procedia Structural Integrity, 2020, 28, 2382-2385.	0.8	2
11	Macro- and micro-approach to locally multiaxial fatigue crack paths in oriented and non-oriented pearlitic microstructures. Procedia Structural Integrity, 2020, 28, 2396-2403.	0.8	2
12	Crack tip field in eccentric circumferentially cracked round bar (CCRB) under tensile loading. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2153-2161.	3.4	4
13	Notch effect on the stress intensity factor in tension-loaded circumferentially cracked bars. Engineering Fracture Mechanics, 2018, 202, 436-444.	4.3	5
14	Initiation and propagation of fatigue cracks in cold-drawn pearlitic steel wires. Theoretical and Applied Fracture Mechanics, 2017, 92, 410-419.	4.7	16
15	Paris Law-Based Approach to Fatigue Crack Growth in Notched Plates under Tension Loading. Procedia Structural Integrity, 2017, 5, 1299-1303.	0.8	4
16	Corrosion-Fatigue Crack Growth in Plates: A Model Based on the Paris Law. Materials, 2017, 10, 439.	2.9	8
17	Aspect Ratio Evolution in Embedded, Surface, and Corner Cracks in Finite-Thickness Plates under Tensile Fatigue Loading. Applied Sciences (Switzerland), 2017, 7, 746.	2.5	8
18	Damage evolution in plates subjected to fatigue loading. Journal of Physics: Conference Series, 2017, 842, 012072.	0.4	0

#	Article	IF	Citations
19	Influence of crack micro-roughness on the plasticity-induced fatigue propagation in high strength steel. Frattura Ed Integrita Strutturale, 2017, 11, 62-65.	0.9	1
20	Crack tip field in circumferentially-cracked round bar (CCRB) in tension affected by loss of axial symmetry. Frattura Ed Integrita Strutturale, 2017, 11, 139-142.	0.9	0
21	Tensile Fracture Behavior of Progressively-Drawn Pearlitic Steels. Metals, 2016, 6, 114.	2.3	31
22	Influence of Microstructure on Strength and Ductility in Fully Pearlitic Steels. Metals, 2016, 6, 318.	2.3	30
23	Anisotropic Fatigue & Fracture Behaviour in Hot-Rolled and Cold-Drawn Pearlitic Steel Wires. Key Engineering Materials, 2016, 713, 103-106.	0.4	3
24	Aspect ratio evolution associated with surface cracks in sheets subjected to fatigue. International Journal of Fatigue, 2016, 92, 588-595.	5.7	10
25	Fatigue crack growth in round bars for rock anchorages: the role of residual stresses. Procedia Structural Integrity, 2016, 2, 2734-2741.	0.8	4
26	Fatigue cracking in high-strength cold-drawn pearlitic steel wires for anchorage in rocks. Procedia Structural Integrity, 2016, 2, 2330-2337.	0.8	0
27	Analysis of Fatigue Crack Paths in Cold Drawn Pearlitic Steel. Materials, 2015, 8, 7439-7446.	2.9	15
28	Influence of Residual Stress Field on the Fatigue Crack Propagation in Prestressing Steel Wires. Materials, 2015, 8, 7589-7597.	2.9	8
29	Effect of sudden load decrease on the fatigue crack growth in cold drawn prestressing steel. International Journal of Fatigue, 2015, 76, 53-59.	5.7	7
30	Evolution of crack paths and compliance in round bars under cyclic tension and bending. Theoretical and Applied Fracture Mechanics, 2015, 80, 104-110.	4.7	4
31	Crack tip fields and mixed mode fracture behaviour of progressively drawn pearlitic steel. Frattura Ed Integrita Strutturale, 2015, 9, 221-228.	0.9	0
32	Influence of surface defects on the fatigue crack initiation in pearlitic steel. MATEC Web of Conferences, 2014, 12, 06008.	0.2	1
33	Evolution of crack paths and compliance in round bars under cyclic tension and bending. Frattura Ed Integrita Strutturale, 2014, 8, 182-190.	0.9	1
34	Fracture behaviour of slightly hypereutectoid steel with different degree of spheroidization. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 800-806.	3.4	1
35	Role of the microstructure on the mechanical properties of fully pearlitic eutectoid steels. Frattura Ed Integrita Strutturale, 2014, 8, 424-430.	0.9	10
36	Numerical modelling of cracking path in round bars subjected to cyclic tension and bending. International Journal of Fatigue, 2014, 58, 20-27.	5.7	20

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37	A macro- and micro-approach to the anisotropic fatigue behaviour of hot-rolled and cold-drawn pearlitic steel. Engineering Fracture Mechanics, 2014, 123, 70-76.	4.3	16
38	Microstructure and Mechanical Properties in Progressively Drawn Pearlitic Steel. Materials Transactions, 2014, 55, 93-98.	1.2	22
39	Evolution of Crack Aspect Ratio in Sheets Under Tension and Bending Cyclic Loading. , 2014, , 263-272.		0
40	Fatigue Crack Growth in Pre-Stressing Steel Wires: Transient and Steady-State Regimes. , 2014, , 251-261.		0
41	Strength anisotropy and mixed mode fracture in heavily drawn pearlitic steel. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1178-1186.	3.4	18
42	Transient and Steady State Regimes of Fatigue Crack Growth in High Strength Steel. Key Engineering Materials, 2012, 525-526, 553-556.	0.4	1
43	Environmentally-assisted fatigue crack growth in prestressing steel wires. Materials Science, 2012, 47, 764-772.	0.9	1
44	Fatigue behaviour of bolted joints. Metals and Materials International, 2012, 18, 553-558.	3.4	9
45	Modeling of Surface Crack Advance in Round Wires Subjected to Cyclic Loading. , 2012, , 126-135.		0
46	Modeling of Surface Crack Advance in Round Wires Subjected to Cyclic Loading. Journal of ASTM International, 2012, 9, 1-7.	0.2	0
47	Strength Anisotropy in Prestressing Steel Wires. Advanced Structured Materials, 2012, , 259-270.	0.5	0
48	Compliance evolution in round cracked bars under tensile fatigue. Engineering Fracture Mechanics, 2011, 78, 3243-3252.	4.3	11
49	Influence of the Microstructure of Eutectoid Steel on the Cyclic Crack Propagation: Pearlite and Spheroidite. International Journal of Fracture, 2011, 171, 209-215.	2.2	2
50	Numerical and experimental analyses of the plasticity-induced fatigue crack growth in high-strength steels. Construction and Building Materials, 2011, 25, 3935-3940.	7.2	15
51	Critical stress intensity factors in steel cracked wires. Materials & Design, 2011, 32, 4424-4429.	5.1	8
52	Fatigue performance of cold drawn prestressing steel: The effect of sudden load changes. Procedia Engineering, 2011, 10, 3546-3551.	1.2	1
53	Evaluation by Sharp Indentation of Anisotropic Plastic Behaviour in Progressively Drawn Pearlitic Steel. ISIJ International, 2011, 51, 843-848.	1.4	11
54	Fatigue and fracture paths in cold drawn pearlitic steel. Engineering Fracture Mechanics, 2010, 77, 2024-2032.	4.3	29

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55	Failure analysis of a lifting platform for tree pruning. Engineering Failure Analysis, 2010, 17, 739-747.	4.0	13
56	Numerical modelling of crack shape evolution for surface flaws in round bars under tensile loading. Engineering Failure Analysis, 2009, 16, 618-630.	4.0	42
57	A critical review of stress intensity factor solutions for surface cracks in round bars subjected to tension loading. Engineering Failure Analysis, 2009, 16, 794-809.	4.0	60
58	Micro- and macro-approach to the fatigue crack growth in progressively drawn pearlitic steels at different R-ratios. International Journal of Fatigue, 2009, 31, 2014-2021.	5.7	55
59	Multi-Scale Approach to the Fatigue Crack Propagation in High-Strength Pearlitic Steel Wires. , 2009, , 439-458.		1
60	Multi-Scale Approach to the Fatigue Crack Propagation in High-Strength Pearlitic Steel Wires. Journal of ASTM International, 2008, 5, 1-15.	0.2	2
61	Micro- and Macro-Approach to the Fatigue Crack Propagation in High-Strength Pearlitic Steel Wires. Key Engineering Materials, 2007, 348-349, 681-684.	0.4	6
62	Fatigue crack propagation in cold drawn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 468-470, 267-272.	5.6	31
63	Cleavage Stress Required to Produce Fracture Path Deflection in Cold-Drawn Prestressing Steel Wires. International Journal of Fracture, 2007, 144, 189-196.	2.2	8
64	Estimation of Critical Stress Intensity Factor in Steel Cracked Wires. , 2006, , 215-216.		0
65	Anisotropic Fracture Behaviour of Progressively Drawn Pearlitic Steel. Key Engineering Materials, 0, 452-453, 1-4.	0.4	2
66	Corrosion-Fatigue of High Strength Steel Bars: Evolution of Crack Aspect Ratio. Key Engineering Materials, 0, 488-489, 1-4.	0.4	0
67	Initiation of Fatigue Cracks in Bolted Joints. Key Engineering Materials, 0, 577-578, 549-552.	0.4	0