

Beatriz Gonzalez

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

716
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docs citations

65
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of stress intensity factor solutions for surface cracks in round bars subjected to tension loading. <i>Engineering Failure Analysis</i> , 2009, 16, 794-809.	4.0	60
2	Micro- and macro-approach to the fatigue crack growth in progressively drawn pearlitic steels at different R-ratios. <i>International Journal of Fatigue</i> , 2009, 31, 2014-2021.	5.7	55
3	Effective degradation of methylene blue in aqueous solution using Pd-supported Cu-doped Ti-pillared montmorillonite catalyst. <i>Applied Clay Science</i> , 2019, 168, 7-10.	5.2	45
4	Numerical modelling of crack shape evolution for surface flaws in round bars under tensile loading. <i>Engineering Failure Analysis</i> , 2009, 16, 618-630.	4.0	42
5	Fatigue crack propagation in cold drawn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 468-470, 267-272.	5.6	31
6	Tensile Fracture Behavior of Progressively-Drawn Pearlitic Steels. <i>Metals</i> , 2016, 6, 114.	2.3	31
7	Influence of Microstructure on Strength and Ductility in Fully Pearlitic Steels. <i>Metals</i> , 2016, 6, 318.	2.3	30
8	Fatigue and fracture paths in cold drawn pearlitic steel. <i>Engineering Fracture Mechanics</i> , 2010, 77, 2024-2032.	4.3	29
9	Photocatalytic degradation of trimethoprim on doped Ti-pillared montmorillonite. <i>Applied Clay Science</i> , 2019, 167, 43-49.	5.2	23
10	Microstructure and Mechanical Properties in Progressively Drawn Pearlitic Steel. <i>Materials Transactions</i> , 2014, 55, 93-98.	1.2	22
11	Numerical modelling of cracking path in round bars subjected to cyclic tension and bending. <i>International Journal of Fatigue</i> , 2014, 58, 20-27.	5.7	20
12	Strength anisotropy and mixed mode fracture in heavily drawn pearlitic steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 1178-1186.	3.4	18
13	Laponite functionalized with biuret and melamine " Application to adsorption of antibiotic trimethoprim. <i>Microporous and Mesoporous Materials</i> , 2017, 253, 112-122.	4.4	17
14	Pd supported on Cu-doped Ti-pillared montmorillonite as catalyst for the Ullmann coupling reaction. <i>Applied Clay Science</i> , 2018, 160, 126-131.	5.2	17
15	A macro- and micro-approach to the anisotropic fatigue behaviour of hot-rolled and cold-drawn pearlitic steel. <i>Engineering Fracture Mechanics</i> , 2014, 123, 70-76.	4.3	16
16	Initiation and propagation of fatigue cracks in cold-drawn pearlitic steel wires. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 92, 410-419.	4.7	16
17	Numerical and experimental analyses of the plasticity-induced fatigue crack growth in high-strength steels. <i>Construction and Building Materials</i> , 2011, 25, 3935-3940.	7.2	15
18	Analysis of Fatigue Crack Paths in Cold Drawn Pearlitic Steel. <i>Materials</i> , 2015, 8, 7439-7446.	2.9	15

#	ARTICLE	IF	CITATIONS
19	Microwave-Assisted Pillaring of a Montmorillonite with Al-Polycations in Concentrated Media. <i>Materials</i> , 2017, 10, 886.	2.9	14
20	Failure analysis of a lifting platform for tree pruning. <i>Engineering Failure Analysis</i> , 2010, 17, 739-747.	4.0	13
21	Doped Ti-pillared clays as effective adsorbents " Application to methylene blue and trimethoprim removal. <i>Environmental Chemistry</i> , 2017, 14, 267.	1.5	12
22	Two synthesis approaches of Fe-containing intercalated montmorillonites: Differences as acid catalysts for the synthesis of 1,5-benzodeazepine from 1,2-phenylenediamine and acetone. <i>Applied Clay Science</i> , 2017, 146, 388-396.	5.2	12
23	Compliance evolution in round cracked bars under tensile fatigue. <i>Engineering Fracture Mechanics</i> , 2011, 78, 3243-3252.	4.3	11
24	Analysis of the Bauschinger Effect in Cold Drawn Pearlitic Steels. <i>Metals</i> , 2020, 10, 114.	2.3	11
25	Evaluation by Sharp Indentation of Anisotropic Plastic Behaviour in Progressively Drawn Pearlitic Steel. <i>ISIJ International</i> , 2011, 51, 843-848.	1.4	11
26	Role of the microstructure on the mechanical properties of fully pearlitic eutectoid steels. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 424-430.	0.9	10
27	Aspect ratio evolution associated with surface cracks in sheets subjected to fatigue. <i>International Journal of Fatigue</i> , 2016, 92, 588-595.	5.7	10
28	Fatigue behaviour of bolted joints. <i>Metals and Materials International</i> , 2012, 18, 553-558.	3.4	9
29	Cleavage Stress Required to Produce Fracture Path Deflection in Cold-Drawn Prestressing Steel Wires. <i>International Journal of Fracture</i> , 2007, 144, 189-196.	2.2	8
30	Critical stress intensity factors in steel cracked wires. <i>Materials & Design</i> , 2011, 32, 4424-4429.	5.1	8
31	Influence of Residual Stress Field on the Fatigue Crack Propagation in Prestressing Steel Wires. <i>Materials</i> , 2015, 8, 7589-7597.	2.9	8
32	Corrosion-Fatigue Crack Growth in Plates: A Model Based on the Paris Law. <i>Materials</i> , 2017, 10, 439.	2.9	8
33	Aspect Ratio Evolution in Embedded, Surface, and Corner Cracks in Finite-Thickness Plates under Tensile Fatigue Loading. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 746.	2.5	8
34	Effect of sudden load decrease on the fatigue crack growth in cold drawn prestressing steel. <i>International Journal of Fatigue</i> , 2015, 76, 53-59.	5.7	7
35	Numerical Modeling of Plasticity-Induced Fatigue Crack Growth Retardation Due to Deflection in the Near-Tip Area. <i>Metals</i> , 2021, 11, 541.	2.3	6
36	Role of Non-Metallic Inclusions in the Fracture Behavior of Cold Drawn Pearlitic Steel. <i>Metals</i> , 2021, 11, 962.	2.3	6

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37	Photodegradation of 1,2,4-Trichlorobenzene on Montmorillonite/TiO ₂ Nanocomposites. ChemEngineering, 2018, 2, 22.	2.4	5
38	Somatic Hypomethylation of Pericentromeric SST1 Repeats and Tetraploidization in Human Colorectal Cancer Cells. Cancers, 2021, 13, 5353.	3.7	5
39	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
40	Paris Law-Based Approach to Fatigue Crack Growth in Notched Plates under Tension Loading. Procedia Structural Integrity, 2017, 5, 1299-1303.	0.8	4
41	Anisotropic Fatigue & Fracture Behaviour in Hot-Rolled and Cold-Drawn Pearlitic Steel Wires. Key Engineering Materials, 2016, 713, 103-106.	0.4	3
42	Effect of the Crack Tip Bifurcation on the Plasticity-Induced Fatigue Propagation in Metallic Materials. Materials, 2021, 14, 3385.	2.9	3
43	Anisotropic Fracture Behaviour of Progressively Drawn Pearlitic Steel. Key Engineering Materials, 0, 452-453, 1-4.	0.4	2
44	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
45	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
46	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
47	Fatigue performance of cold drawn prestressing steel: The effect of sudden load changes. Procedia Engineering, 2011, 10, 3546-3551.	1.2	1
48	Transient and Steady State Regimes of Fatigue Crack Growth in High Strength Steel. Key Engineering Materials, 2012, 525-526, 553-556.	0.4	1
49	Environmentally-assisted fatigue crack growth in prestressing steel wires. Materials Science, 2012, 47, 764-772.	0.9	1
50	Influence of surface defects on the fatigue crack initiation in pearlitic steel. MATEC Web of Conferences, 2014, 12, 06008.	0.2	1
51	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
52	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
53	Hydrogen-Assisted Fatigue Propagation in Corner Cracks at Holes Located in Plates under Tensile Loading. Metals, 2021, 11, 552.	2.3	1
54	Stress Intensity Factors for Embedded, Surface, and Corner Cracks in Finite-Thickness Plates Subjected to Tensile Loading. Materials, 2021, 14, 2807.	2.9	1

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55	Influence of crack micro-roughness on the plasticity-induced fatigue propagation in high strength steel. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 62-65.	0.9	1
56	Corrosion-Fatigue of High Strength Steel Bars: Evolution of Crack Aspect Ratio. <i>Key Engineering Materials</i> , 0, 488-489, 1-4.	0.4	0
57	Initiation of Fatigue Cracks in Bolted Joints. <i>Key Engineering Materials</i> , 0, 577-578, 549-552.	0.4	0
58	Fatigue cracking in high-strength cold-drawn pearlitic steel wires for anchorage in rocks. <i>Procedia Structural Integrity</i> , 2016, 2, 2330-2337.	0.8	0
59	Damage evolution in plates subjected to fatigue loading. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012072.	0.4	0
60	Modeling of Surface Crack Advance in Round Wires Subjected to Cyclic Loading. <i>Journal of ASTM International</i> , 2012, 9, 1-7.	0.2	0
61	Crack tip fields and mixed mode fracture behaviour of progressively drawn pearlitic steel. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 221-228.	0.9	0
62	Crack tip field in circumferentially-cracked round bar (CCRB) in tension affected by loss of axial symmetry. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 139-142.	0.9	0
63	Analysis of near-tip fatigue crack path bifurcation in metallic materials. <i>Procedia Structural Integrity</i> , 2022, 39, 479-483.	0.8	0
64	A modified Paris Law approach to fatigue crack propagation in cold drawn pearlitic steel. <i>Procedia Structural Integrity</i> , 2022, 41, 718-723.	0.8	0