JesÃ^os Toribio

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of cumulative cold drawing on the pearlite interlamellar spacing in eutectoid steel. Scripta Materialia, 1998, 39, 323-328.	5.2	111
2	Microstructure evolution in a pearlitic steel subjected to progressive plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 234-236, 579-582.	5.6	90
3	Effect of Cold Drawing on Microstructure and Corrosion Performance of High-Strength Steel. Mechanics of Time-Dependent Materials, 1997, 1, 307-319.	4.4	88
4	Microstructure Orientation in a Pearlitic Steel Subjected to Progressive Plastic Deformation. Journal of Materials Science Letters, 1998, 17, 1045-1048.	0.5	70
5	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
6	Relationship between microstructure and strength in eutectoid steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 227-230.	5.6	59
7	Failure analysis of cold drawn eutectoid steel wires for prestressed concrete. Engineering Failure Analysis, 2006, 13, 301-311.	4.0	56
8	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
9	Role of drawing-induced residual stresses and strains in the hydrogen embrittlement susceptibility of prestressing steels. Corrosion Science, 2011, 53, 3346-3355.	6.6	55
10	Role of hydrostatic stress in hydrogen diffusion in pearlitic steel. Journal of Materials Science, 1993, 28, 2289-2298.	3.7	46
11	The tearing topography surface as the zone associated with hydrogen embrittlement processes in pearlitic steel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1992, 23, 1573-1584.	1.4	44
12	Characteristics of the new tearing topography surface. Scripta Metallurgica Et Materialia, 1991, 25, 2239-2244.	1.0	43
13	Influence of residual stresses on hydrogen embrittlement susceptibility of prestressing steels. International Journal of Solids and Structures, 1991, 28, 791-803.	2.7	43
14	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
15	A fracture criterion for high-strength steel notched bars. Engineering Fracture Mechanics, 1997, 57, 391-404.	4.3	41
16	Anisotropic fracture behaviour of cold drawn steel: a materials science approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 343, 265-272.	5.6	41
17	Macroscopic variables governing the microscopic fracture of pearlitic steels. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 145, 167-177.	5.6	38
18	Simulations of fatigue crack growth by blunting–re-sharpening: Plasticity induced crack closure vs. alternative controlling variables. International Journal of Fatigue, 2013, 50, 72-82.	5.7	37

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19	A generalised model of hydrogen diffusion in metals with multiple trap types. Philosophical Magazine, 2015, 95, 3429-3451.	1.6	37
20	Finite-deformation analysis of the crack-tip fields under cyclic loading. International Journal of Solids and Structures, 2009, 46, 1937-1952.	2.7	36
21	Fatigue and fracture performance of cold drawn wires for prestressed concrete. Construction and Building Materials, 2000, 14, 47-53.	7.2	34
22	K-DOMINANCE CONDITION IN HYDROGEN ASSISTED CRACKING: THE ROLE OF THE FAR FIELD. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 729-745.	3.4	33
23	Hydrogen-assisted micro-damage evolution in pearlitic steel. Journal of Materials Science Letters, 1997, 16, 1345-1348.	0.5	32
24	Effect of cold drawing on susceptibility to hydrogen embrittlement of prestressing steel. Materiaux Et Constructions, 1993, 26, 30-37.	0.3	31
25	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
26	Tensile Fracture Behavior of Progressively-Drawn Pearlitic Steels. Metals, 2016, 6, 114.	2.3	31
27	Residual stress redistribution induced by fatigue in cold-drawn prestressing steel wires. Construction and Building Materials, 2016, 114, 317-322.	7.2	31
28	Residual Stress Effects in Stress-Corrosion Cracking. Journal of Materials Engineering and Performance, 1998, 7, 173-182.	2.5	30
29	Influence of Microstructure on Strength and Ductility in Fully Pearlitic Steels. Metals, 2016, 6, 318.	2.3	30
30	The role of local strain rate in the hydrogen embrittlement of round-notched samples. Corrosion Science, 1992, 33, 1387-1395.	6.6	29
31	Effect of cold drawing on environmentally assisted cracking of cold-drawn steel. Journal of Materials Science, 1996, 31, 6015-6024.	3.7	29
32	Fatigue and fracture paths in cold drawn pearlitic steel. Engineering Fracture Mechanics, 2010, 77, 2024-2032.	4.3	29
33	Hydrogen assisted cracking in progressively drawn pearlitic steel. Corrosion Science, 2007, 49, 3539-3556.	6.6	28
34	Two-Dimensional Numerical Modelling of Hydrogen Diffusion in Metals Assisted by Both Stress and Strain. Advanced Materials Research, 0, 138, 117-126.	0.3	26
35	Hydrogen Embrittlement of Pearlitic Steels: Phenomenological Study on Notched and Precracked Specimens. Corrosion, 1991, 47, 781-791.	1.1	25
36	Hydrogen-plasticity interactions in pearlitic steel: A fractographic and numerical study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 219, 180-191.	5.6	25

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37	Evaluation of hydrogen assisted cracking: the meaning and significance of the fracture mechanics approach. Nuclear Engineering and Design, 1998, 182, 149-164.	1.7	25
38	A hydrogen diffusion model for applications in fusion nuclear technology. Fusion Engineering and Design, 2000, 51-52, 213-218.	1.9	25
39	The role of crack tip strain rate in hydrogen assisted cracking. Corrosion Science, 1997, 39, 1687-1697.	6.6	24
40	The Effect of History on Hydrogen Assisted Cracking: 1. Coupling of hydrogenation and crack growth. International Journal of Fracture, 1997, 88, 233-245.	2.2	24
41	Fracture mechanics approach to hydrogen-assisted microdamage in eutectoid steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 191-197.	2.2	24
42	Anisotropic stress corrosion cracking behaviour of prestressing steel. Materials and Corrosion - Werkstoffe Und Korrosion, 1998, 49, 34-38.	1.5	24
43	Failure analysis of cold drawn prestressing steel wires subjected to stress corrosion cracking. Engineering Failure Analysis, 2005, 12, 654-661.	4.0	24
44	Influence of residual stresses and strains generated by cold drawing on hydrogen embrittlement of prestressing steels. Corrosion Science, 2007, 49, 3557-3569.	6.6	23
45	Stress intensity factor solutions for a cracked bolt under tension, bending and residual stress loading. Engineering Fracture Mechanics, 1991, 39, 359-371.	4.3	20
46	Microstructure-based modeling of hydrogen assisted cracking in pearlitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 540-543.	5.6	20
47	Approximate evaluation of directional toughness in heavily drawn pearlitic steels. Materials Letters, 2004, 58, 3514-3517.	2.6	20
48	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
49	Factors influencing stress corrosion cracking of high strength pearlitic steels. Corrosion Science, 1993, 35, 521-530.	6.6	19
50	Delamination fracture of prestressing steel: An engineering approach. Engineering Fracture Mechanics, 2008, 75, 2683-2694.	4.3	19
51	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
52	Time-dependent Triaxiality Effects on Hydrogen-assisted Micro-damage Evolution in Pearlitic Steel. ISIJ International, 2012, 52, 228-233.	1.4	18
53	Influence of the die geometry on the hydrogen embrittlement susceptibility of cold drawn wires. Engineering Failure Analysis, 2014, 36, 215-225.	4.0	17
54	Large crack tip deformations and plastic crack advance during fatigue. Materials Letters, 2007, 61, 964-967.	2.6	16

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55	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
56	Initiation and propagation of fatigue cracks in cold-drawn pearlitic steel wires. Theoretical and Applied Fracture Mechanics, 2017, 92, 410-419.	4.7	16
57	Structural integrity of progressively cold-drawn pearlitic steels: From Raffaello Sanzio to Vincent van Gogh. Procedia Structural Integrity, 2017, 3, 3-10.	0.8	16
58	HELP versus HEDE in progressively cold-drawn pearlitic steels: Between Donatello and Michelangelo. Engineering Failure Analysis, 2018, 94, 157-164.	4.0	16
59	Effects of strain rate and notch geometry on hydrogen embrittlement of AISI type 316L austenitic stainless steel. Fusion Engineering and Design, 1991, 16, 377-386.	1.9	15
60	Stress intensity factor solutions for a cracked bolt loaded by a nut. International Journal of Fracture, 1992, 53, 367-385.	2.2	15
61	Hydrogen Degradation of Cold-Drawn Wires: A Numerical Analysis of Drawing-Induced Residual Stresses and Strains. Corrosion, 2011, 67, 075001-1-075001-8.	1.1	15
62	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
63	Analysis of Fatigue Crack Paths in Cold Drawn Pearlitic Steel. Materials, 2015, 8, 7439-7446.	2.9	15
64	Fractographic evidence of hydrogen transport by diffusion in pearlitic steel. Journal of Materials Science Letters, 1992, 11, 1151-1153.	0.5	14
65	Fractographic and numerical study of hydrogen–plasticity interactions near a crack tip. Journal of Materials Science, 2006, 41, 6015-6025.	3.7	14
66	Role of Fatigue Crack Closure Stresses in Hydrogen-Assisted Cracking. , 1999, , 440-458.		14
67	Hydrogen embrittlement of prestressing steels: the concept of effective stress in design. Materials & Design, 1997, 18, 81-85.	5.1	13
68	Microstructure-based modelling of fracture in progressively drawn pearlitic steels. Engineering Fracture Mechanics, 2004, 71, 769-777.	4.3	13
69	Failure analysis of a lifting platform for tree pruning. Engineering Failure Analysis, 2010, 17, 739-747.	4.0	13
70	Effects of manufacturing-induced residual stresses and strains on hydrogen embrittlement of cold drawn steels. Procedia Engineering, 2011, 10, 3540-3545.	1.2	13
71	Influence of Loading Rate on the Hydrogen-Assisted Micro-Damage in Bluntly Notched Samples of Pearlitic Steel. Metals, 2016, 6, 11.	2.3	13
72	On the Intrinsic Character of the Stress-Strain Curve of a Prestressing Steel. Journal of Testing and Evaluation, 1992, 20, 357-362.	0.7	13

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73	Stress intensification in cracked shank of tightened bolt. Theoretical and Applied Fracture Mechanics, 1991, 15, 85-97.	4.7	12
74	The reliability of the fracture mechanics approach to environmentally assisted cracking: 1. Uniqueness of the v(K)-curve. Materials & Design, 1997, 18, 87-94.	5.1	12
75	Image analysis of exfoliation fracture in cold drawn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 438-441.	5.6	12
76	Role of in-service stress and strain fields on the hydrogen embrittlement of the pressure vessel constituent materials in a pressurized water reactor. Engineering Failure Analysis, 2017, 82, 458-465.	4.0	12
77	Micromechanics of hydrogen assisted cracking in progressively drawn steels. Scripta Materialia, 1999, 40, 943-948.	5.2	11
78	Composite Microstructure of Cold-Drawn Pearlitic Steel and Its Role in Stress Corrosion Behavior. Journal of Materials Engineering and Performance, 2000, 9, 272-279.	2.5	11
79	Fracture Performance of Progressively Drawn Pearlitic Steel under Triaxial Stress States. Materials Science, 2001, 37, 707-717.	0.9	11
80	Compliance evolution in round cracked bars under tensile fatigue. Engineering Fracture Mechanics, 2011, 78, 3243-3252.	4.3	11
81	Optimization of the simulation of stress-assisted hydrogen diffusion for studies of hydrogen embrittlement of notched bars. Materials Science, 2011, 46, 819-833.	0.9	11
82	Analysis of the Bauschinger Effect in Cold Drawn Pearlitic Steels. Metals, 2020, 10, 114.	2.3	11
83	A fracture criterion for high-strength steel cracked bars. Structural Engineering and Mechanics, 2002, 14, 209-221.	1.0	11
84	Evaluation by Sharp Indentation of Anisotropic Plastic Behaviour in Progressively Drawn Pearlitic Steel. ISIJ International, 2011, 51, 843-848.	1.4	11
85	The Effect of History on Hydrogen Assisted Cracking: 2. A revision of K-dominance. International Journal of Fracture, 1997, 88, 247-258.	2.2	10
86	Microstructure-based modelling of localized anodic dissolution in pearlitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 308-311.	5.6	10
87	Localized plasticity near a crack tip in a strain hardening material subjected to mode I loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 535-539.	5.6	10
88	Comments on Simulations of Fatigue Crack Propagation by Blunting and Re-sharpening: The Mesh Sensitivity. International Journal of Fracture, 2006, 140, 285-292.	2.2	10
89	Role of the microstructure on the mechanical properties of fully pearlitic eutectoid steels. Frattura Ed Integrita Strutturale, 2014, 8, 424-430.	0.9	10
90	Aspect ratio evolution associated with surface cracks in sheets subjected to fatigue. International Journal of Fatigue, 2016, 92, 588-595.	5.7	10

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91	Micromechanics of Fracture in Notched Samples of Heavily Drawn Steel. International Journal of Fracture, 2002, 115, 29-34.	2.2	9
92	Role of crack tip mechanics in stress corrosion cracking of high-strength steels. International Journal of Fracture, 2004, 126, L57-L63.	2.2	9
93	Plasticity-induced crack closure: A contribution to the debate. European Journal of Mechanics, A/Solids, 2011, 30, 105-112.	3.7	9
94	Fatigue behaviour of bolted joints. Metals and Materials International, 2012, 18, 553-558.	3.4	9
95	On the use of varying die angle for improving the resistance to hydrogen embrittlement of cold drawn prestressing steel wires. Engineering Failure Analysis, 2015, 47, 273-282.	4.0	9
96	Hydrogen effects in multiaxial fracture of cold-drawn pearlitic steel wires. Engineering Fracture Mechanics, 2017, 174, 243-252.	4.3	9
97	Hydrogen Effects on Progressively Cold-Drawn Pearlitic Steels: Between Donatello and Michelangelo. Procedia Structural Integrity, 2017, 5, 1446-1453.	0.8	9
98	Experimental evaluation of environmentally assisted cracking: the effect of compressive residual stresses at the crack tip. Journal of Materials Science Letters, 1993, 14, 1204-1206.	0.5	8
99	Overload retardation effects on stress corrosion behaviour of prestressing steel. Construction and Building Materials, 1996, 10, 501-505.	7.2	8
100	The reliability of the fracture mechanics approach to environmentally assisted cracking: 2. Engineering safe design. Materials & Design, 1997, 18, 95-101.	5.1	8
101	Role of crack-tip residual stresses in stress corrosion behaviour of prestressing steel. Construction and Building Materials, 1998, 12, 283-287.	7.2	8
102	Evolution of Fracture Behaviour in Progressively Drawn Pearlitic Steel ISIJ International, 2002, 42, 656-662.	1.4	8
103	Investigation of the type of cleavage related to anisotropic fracture in heavily drawn steels. Journal of Materials Science Letters, 2002, 21, 1509-1512.	0.5	8
104	Evolution of hydrogen-assisted micro-damage in progressively drawn pearlitic steel. Materials Letters, 2004, 58, 2541-2544.	2.6	8
105	Effect of residual stress-strain profiles on hydrogen-induced fracture of prestressing steel wires. Materials Science, 2006, 42, 263-271.	0.9	8
106	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
107	Critical stress intensity factors in steel cracked wires. Materials & Design, 2011, 32, 4424-4429.	5.1	8
108	Influence of Residual Stress Field on the Fatigue Crack Propagation in Prestressing Steel Wires. Materials, 2015, 8, 7589-7597.	2.9	8

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109	Stress Corrosion Cracking of Progressively Cold-Drawn Pearlitic Steels: From Tintoretto to Picasso. Procedia Structural Integrity, 2017, 5, 1439-1445.	0.8	8
110	Corrosion-Fatigue Crack Growth in Plates: A Model Based on the Paris Law. Materials, 2017, 10, 439.	2.9	8
111	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
112	The Role of Overloading on the Reduction of Residual Stress by Cyclic Loading in Cold-Drawn Prestressing Steel Wires. Applied Sciences (Switzerland), 2017, 7, 84.	2.5	8
113	On the meaning of thresholds in environmentally assisted cracking. Journal of Materials Science Letters, 1992, 11, 1085-1086.	0.5	7
114	Modelling hydrogen embrittlement in 316L austenitic stainless steel for the first wall of the Next European Torus. Fusion Engineering and Design, 1995, 29, 442-447.	1.9	7
115	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
116	Hydrogen embrittlement susceptibility of prestressing steel wires: the role of the cold-drawing conditions. Procedia Structural Integrity, 2016, 2, 626-631.	0.8	7
117	On the necessity of triaxiality and microstructural orientation to produce anisotropic fracture in cold drawn pearlitic steel: Resembling John Ford's Monument Valley. Procedia Structural Integrity, 2020, 28, 2416-2423.	0.8	7
118	X-Ray measurement of residual stresses in a rolled bolt: Application to the calculation of stress intensity factors after cracking. Journal of Strain Analysis for Engineering Design, 1991, 26, 103-109.	1.8	6
119	Stress corrosion behaviour of high-strength steel: design on the basis of the crack growth kinetics curve. Materials & Design, 1995, 16, 283-288.	5.1	6
120	Tensile Failure of Stainless-Steel Notched Bars Under Hydrogen Charging. Journal of Engineering Materials and Technology, Transactions of the ASME, 1996, 118, 186-191.	1.4	6
121	Finite-element modeling of stress-assisted hydrogen diffusion in 316L stainless steel. Materials Science, 1997, 33, 491-503.	0.9	6
122	Role of Crack Tip Blunting in Stress Corrosion Cracking of High-strength Steels. International Journal of Fracture, 1999, 98, 31-36.	2.2	6
123	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
124	Micro-fracture maps in progressively drawn pearlitic steels under triaxial stress states. International Journal of Materials Engineering Innovation, 2009, 1, 61.	0.5	6
125	Hydrogen Diffusion in Metals Assisted by Stress: 2D Numerical Modelling and Analysis of Directionality. Solid State Phenomena, 2014, 225, 33-38.	0.3	6
126	Microstructure-based anisotropic fatigue behavior of hot rolled and cold drawn pearlitic steel wires and the corresponding crack paths: Following the wake of Antonio Machado and Fray Luis de LeÃ ³ n. Procedia Structural Integrity, 2018, 9, 317-322.	0.8	6

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127	Identification of a new microstructural unit in cold drawn pearlitic steel: The pearlitic pearlitic pseudocolony. Procedia Structural Integrity, 2020, 26, 360-367.	0.8	6
128	Numerical Modeling of Plasticity-Induced Fatigue Crack Growth Retardation Due to Deflection in the Near-Tip Area. Metals, 2021, 11, 541.	2.3	6
129	Role of Non-Metallic Inclusions in the Fracture Behavior of Cold Drawn Pearlitic Steel. Metals, 2021, 11, 962.	2.3	6
130	Factors Affecting the Intrinsic Character of the Crack Growth Kinetics Curve in Stress Corrosion Cracking: A Review. Corrosion Reviews, 2001, 19, 207-252.	2.0	5
131	Fracture Process Zone in Notched Samples of Cold Drawn Pearlitic Steels ISIJ International, 2002, 42, 1049-1055.	1.4	5
132	Optimization of round-notched specimen for hydrogen embrittlement testing of materials. Journal of Materials Science, 2004, 39, 4675-4678.	3.7	5
133	Role of Microstructural Anisotropy in the Hydrogen-Assisted Fracture of Pearlitic Steel Notched Bars. International Journal of Fracture, 2013, 182, 149-156.	2.2	5
134	Hydrogen Embrittlement of Cold Drawn Prestressing Steels: the Role of the Die Inlet Angle. Materials Science, 2013, 49, 226-233.	0.9	5
135	Analysis of the Plasticity Characteristics of Progressively Drawn Pearlitic Steel Wires. Materials Science, 2016, 51, 514-519.	0.9	5
136	Hydrogen Transport to Fracture Sites in Metals and Alloys: Multiphysics Modelling. Procedia Structural Integrity, 2017, 5, 1291-1298.	0.8	5
137	Hydrogen embrittlement and micro-damage in notched specimens of progressively cold-drawn pearlitic steel wires. Theoretical and Applied Fracture Mechanics, 2017, 90, 276-286.	4.7	5
138	Notch effect on the stress intensity factor in tension-loaded circumferentially cracked bars. Engineering Fracture Mechanics, 2018, 202, 436-444.	4.3	5
139	Towards a new concept of structural integrity. Procedia Structural Integrity, 2020, 26, 354-359.	0.8	5
140	Experimental evaluation of micromechanical damage produced by hydrogen in 316L steel for the first wall of fusion reactors. Fusion Engineering and Design, 1998, 41, 85-90.	1.9	4
141	Influence of the Die Bearing Length on the Hydrogen Embrittlement of Cold Drawn Wires. Key Engineering Materials, 0, 577-578, 553-556.	0.4	4
142	Numerical analysis of hydrogen-assisted rolling-contact fatigue of wind turbine bearings. Frattura Ed Integrita Strutturale, 2014, 8, 40-47.	0.9	4
143	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
144	Corrosion Resistance of Prestressing Steel Wires. Materials Science, 2015, 50, 665-670.	0.9	4

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145	Fatigue crack growth in round bars for rock anchorages: the role of residual stresses. Procedia Structural Integrity, 2016, 2, 2734-2741.	0.8	4
146	Paris Law-Based Approach to Fatigue Crack Growth in Notched Plates under Tension Loading. Procedia Structural Integrity, 2017, 5, 1299-1303.	0.8	4
147	Hydrogen embrittlement of the pressure vessel structural materials in a WWER-440 nuclear power plant. Energy Procedia, 2017, 131, 379-385.	1.8	4
148	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
149	Notch-induced anisotropic fracture of cold drawn pearlitic steels and the associated crack path deflection and mixed-mode stress state: A Tribute to Masaccio. Procedia Structural Integrity, 2018, 9, 311-316.	0.8	4
150	Crack path deflection in cold-drawn pearlitic steel as a consequence of microstructural anisotropy generated by manufacturing: Resembling Picasso, Larionov and Goncharova. Procedia Structural Integrity, 2019, 16, 281-286.	0.8	4
151	Two-dimensional numerical modelling of hydrogen diffusion assisted by stress and strain. , 2009, , .		4
152	Hydrogen embrittlement and notch tensile strength of pearlitic steel: a numerical approach. Procedia Structural Integrity, 2020, 28, 2444-2449.	0.8	4
153	Unconventional pearlitic pseudocolonies affecting macro-, micro- and nano-structural integrity of cold-drawn pearlitic steel wires: Resembling van Gogh, Bernini, Mantegna and Picasso. Procedia Structural Integrity, 2020, 28, 2404-2409.	0.8	4
154	Micromechanical Modelling of Time-Dependent Stress-Corrosion Behaviour of High-Strength Steel. Mechanics of Time-Dependent Materials, 1998, 2, 229-244.	4.4	3
155	Fracture mechanics approach to hydrogen assisted cracking: Analysis of theK-dominance condition. Materials Science, 1999, 35, 461-476.	0.9	3
156	Mixed-mode hydrogen-assisted cracking of high-strength steel: the role of cyclic load history. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 1882-1885.	2.2	3
157	Numerical modelling of hydrogen embrittlement of cylindrical bars with residual stress fields. Journal of Strain Analysis for Engineering Design, 2000, 35, 189-203.	1.8	3
158	Crack-Tip Stress-Strain Fields During Cyclic Loading and Effect of Overload. International Journal of Fracture, 2006, 139, 333-340.	2.2	3
159	Influence of Drawing Straining Path on Hydrogen Damage of Prestressing Steel Wires. Key Engineering Materials, 0, 488-489, 775-778.	0.4	3
160	Role of plasticity-induced crack closure in fatigue crack growth. Frattura Ed Integrita Strutturale, 2013, 7, 130-137.	0.9	3
161	Anisotropic Fatigue & Fracture Behaviour in Hot-Rolled and Cold-Drawn Pearlitic Steel Wires. Key Engineering Materials, 2016, 713, 103-106.	0.4	3
162	Hydrogen Assisted Cracking in Pearlitic Steel Rods: The Role of Residual Stresses Generated by Fatigue Precracking. Materials, 2017, 10, 485.	2.9	3

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163	Hydrogen-assisted cracking paths in oriented pearlitic microstructures: Resembling Donatello Wooden Sculpture Texture (DWST) & Mantegna's Dead Christ Perspective (MDCP). Procedia Structural Integrity, 2020, 26, 368-375.	0.8	3
164	Effect of the Crack Tip Bifurcation on the Plasticity-Induced Fatigue Propagation in Metallic Materials. Materials, 2021, 14, 3385.	2.9	3
165	Anisotropy of hydrogen embrittlement in cold drawn pearlitic steel: A tribute to Mantegna. Procedia Structural Integrity, 2020, 28, 2438-2443.	0.8	3
166	Role of Cyclic Pre-Loading in Hydrogen Assisted Cracking. , 2000, , 329-342.		3
167	Evaluation and modeling of hydrogen-induced fracture in structural steels. Materials Science, 1996, 32, 368-382.	0.9	2
168	The meaning of the thresholds of hydrogen-assisted cracking. Materials Science, 1998, 34, 476-489.	0.9	2
169	Influence of Cyclic Preloading on the Hydrogen Degradation of Materials. Materials Science, 2002, 38, 514-525.	0.9	2
170	Anisotropic Fracture Behaviour of Progressively Drawn Pearlitic Steel. Key Engineering Materials, 0, 452-453, 1-4.	0.4	2
171	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
172	A Critical Review of Existing Hydrogen Diffusion Models Accounting for Different Physical Variables. Solid State Phenomena, 0, 225, 13-18.	0.3	2
173	The effect of heat treatments on the constituent materials of a nuclear reactor pressure vessel in hydrogen environment. Procedia Structural Integrity, 2016, 2, 622-625.	0.8	2
174	Hydrogen-Assisted Micro-Damage in Cold-Drawn Pearlitic Steels: Resembling Donatello Wooden Sculpture Texture. Key Engineering Materials, 0, 754, 131-134.	0.4	2
175	Susceptibility of Prestressing Steel Wires to Hydrogen-Assisted Cracking in Alkaline Media Simulating Concrete Pore Solutions. Materials Science, 2017, 52, 669-674.	0.9	2
176	Cold-Drawn Pearlitic Steels as Hierarchically Structured Materials: An Approach to Johann Sebastian Bach. Key Engineering Materials, 0, 774, 492-497.	0.4	2
177	Cleavage Stress Producing Notch-Induced Anisotropic Fracture and Crack Path Deflection in Cold Drawn Pearlitic Steel. Metals, 2021, 11, 451.	2.3	2
178	Drawing-Induced Evolution of Inclusions in Cold-Drawn Pearlitic Steel. Metals, 2021, 11, 1272.	2.3	2
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