May L Martin

List of Publications by Year in descending order

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516215 525886 2,242 29 16 27 citations g-index h-index papers 29 29 29 1034 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	On the formation and nature of quasi-cleavage fracture surfaces in hydrogen embrittled steels. Acta Materialia, 2011, 59, 1601-1606.	3.8	295
2	Enumeration of the hydrogen-enhanced localized plasticity mechanism for hydrogen embrittlement in structural materials. Acta Materialia, 2019, 165, 734-750.	3.8	295
3	Hydrogen-induced intergranular failure in nickel revisited. Acta Materialia, 2012, 60, 2739-2745.	3.8	282
4	The effect of nanosized (Ti,Mo)C precipitates on hydrogen embrittlement of tempered lath martensitic steel. Acta Materialia, 2014, 74, 244-254.	3.8	208
5	Hydrogen-induced intergranular failure of iron. Acta Materialia, 2014, 69, 275-282.	3.8	204
6	Modeling hydrogen transport by dislocations. Journal of the Mechanics and Physics of Solids, 2015, 78, 511-525.	2.3	168
7	Interpreting hydrogen-induced fracture surfaces in terms of deformation processes: A new approach. Acta Materialia, 2011, 59, 3680-3687.	3.8	155
8	Recent advances on hydrogen embrittlement of structural materials. International Journal of Fracture, 2015, 196, 223-243.	1.1	146
9	Effect of hydrogen environment on the separation of Fe grain boundaries. Acta Materialia, 2016, 107, 279-288.	3.8	106
10	Crack and blister initiation and growth in purified iron due to hydrogen loading. Acta Materialia, 2016, 115, 24-34.	3.8	89
11	A microstructural based understanding of hydrogen-enhanced fatigue of stainless steels. International Journal of Fatigue, 2013, 57, 28-36.	2.8	54
12	Liquid–metal-induced fracture mode of martensitic T91 steels. Journal of Nuclear Materials, 2012, 426, 71-77.	1.3	45
13	Hydrogen embrittlement in ferritic steels. Applied Physics Reviews, 2020, 7, .	5.5	40
14	Hydrogen-induced cracking and blistering in steels: A review. Journal of Natural Gas Science and Engineering, 2022, 101, 104547.	2.1	34
15	In situ high energy X-ray diffraction measurement of strain and dislocation density ahead of crack tips grown in hydrogen. Acta Materialia, 2019, 180, 272-286.	3.8	33
16	Evaluating a natural gas pipeline steel for blended hydrogen service. Journal of Natural Gas Science and Engineering, 2022, 101, 104529.	2.1	18
17	Cu–CeO2 nanocomposites: mechanochemical synthesis, physico-chemical properties, CO-PROX activity. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	14
18	Hydrogen-induced accelerated grain growth in vanadium. Acta Materialia, 2018, 155, 262-267.	3.8	11

#	Article	IF	CITATIONS
19	Fatigue Testing of Pipeline Welds and Heat-Affected Zones in Pressurized Hydrogen Gas. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-19.	0.4	9
20	A model for high temperature hydrogen attack in carbon steels under constrained void growth. International Journal of Fracture, 2019, 219, 1-17.	1.1	7
21	Hydrogen isotope effect on the embrittlement and fatigue crack growth of steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 331-340.	2.6	6
22	Dominant factors for fracture at the micro-scale in electrodeposited nickel alloys. Sensors and Actuators A: Physical, 2020, 314, 112239.	2.0	5
23	Elastic-plastic properties of mesoscale electrodeposited LIGA nickel alloy films: microscopy and mechanics. Journal of Micromechanics and Microengineering, 2021, 31, 015002.	1.5	5
24	Unification of hydrogen-enhanced damage understanding through strain-life experiments for modeling. Engineering Fracture Mechanics, 2019, 216, 106504.	2.0	4
25	Microfabricated fiducial markers for digital image correlation-based micromechanical testing of LIGA Ni alloys. Engineering Research Express, 2021, 3, 025019.	0.8	4
26	High energy X-ray diffraction and small-angle scattering measurements of hydrogen fatigue damage in AISI 4130 steel. Journal of Pipeline Science and Engineering, 2022, 2, 100068.	2.4	4
27	Effect of Ion Irradiation on Dislocation Processes in Stainless Steel. Materials Research Society Symposia Proceedings, 2011, 1363, 1.	0.1	1
28	Experimental Study of Shear and Tensile Properties of LIGA Ni-Fe and Ni-Co Alloys at Quasi-static and Intermediate Strain Rates. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 101-107.	0.3	0
29	Hydrogen concentration-induced stresses in an environmental TEM. Physical Review Materials, 2022, 6,	0.9	o