# May L Martin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4863053/publications.pdf

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Evaluating a natural gas pipeline steel for blended hydrogen service. Journal of Natural Gas Science and Engineering, 2022, 101, 104529. | 2.1 | 18 |
| 2 | Hydrogen-induced cracking and blistering in steels: A review. Journal of Natural Gas Science and Engineering, 2022, 101, 104547. | 2.1 | 34 |
| 3 | Hydrogen concentration-induced stresses in an environmental TEM. Physical Review Materials, 2022, 6, . | 0.9 | 0 |
| 4 | 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 |
| 5 | 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 |
| 6 | Microfabricated fiducial markers for digital image correlation-based micromechanical testing of LIGA Ni alloys. Engineering Research Express, 2021, 3, 025019. | 0.8 | 4 |
| 7 | Elastic-plastic properties of mesoscale electrodeposited LIGA nickel alloy films: microscopy and mechanics. Journal of Micromechanics and Microengineering, 2021, 31, 015002. | 1.5 | 5 |
| 8 | Hydrogen embrittlement in ferritic steels. Applied Physics Reviews, 2020, 7, . | 5.5 | 40 |
| 9 | Dominant factors for fracture at the micro-scale in electrodeposited nickel alloys. Sensors and Actuators A: Physical, 2020, 314, 112239. | 2.0 | 5 |
| 10 | Unification of hydrogen-enhanced damage understanding through strain-life experiments for modeling. Engineering Fracture Mechanics, 2019, 216, 106504. | 2.0 | 4 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Enumeration of the hydrogen-enhanced localized plasticity mechanism for hydrogen embrittlement in structural materials. Acta Materialia, 2019, 165, 734-750. | 3.8 | 295 |
| 16 | Hydrogen-induced accelerated grain growth in vanadium. Acta Materialia, 2018, 155, 262-267. | 3.8 | 11 |
| 17 | Cuâ€“CeO2 nanocomposites: mechanochemical synthesis, physico-chemical properties, CO-PROX activity. Journal of Nanoparticle Research, 2016, 18, 1. | 0.8 | 14 |
| 18 | Crack and blister initiation and growth in purified iron due to hydrogen loading. Acta Materialia, 2016, 115, 24-34. | 3.8 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effect of hydrogen environment on the separation of Fe grain boundaries. Acta Materialia, 2016, 107, 279-288. | 3.8 | 106 |
| 20 | Modeling hydrogen transport by dislocations. Journal of the Mechanics and Physics of Solids, 2015, 78, 511-525. | 2.3 | 168 |
| 21 | Recent advances on hydrogen embrittlement of structural materials. International Journal of Fracture, 2015, 196, 223-243. | 1.1 | 146 |
| 22 | Hydrogen-induced intergranular failure of iron. Acta Materialia, 2014, 69, 275-282. | 3.8 | 204 |
| 23 | 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 |
| 24 | A microstructural based understanding of hydrogen-enhanced fatigue of stainless steels. International Journal of Fatigue, 2013, 57, 28-36. | 2.8 | 54 |
| 25 | Hydrogen-induced intergranular failure in nickel revisited. Acta Materialia, 2012, 60, 2739-2745. | 3.8 | 282 |
| 26 | Liquidâ€“metal-induced fracture mode of martensitic T91 steels. Journal of Nuclear Materials, 2012, 426, 71-77. | 1.3 | 45 |
| 27 | On the formation and nature of quasi-cleavage fracture surfaces in hydrogen embrittled steels. Acta Materialia, 2011, 59, 1601-1606. | 3.8 | 295 |
| 28 | Interpreting hydrogen-induced fracture surfaces in terms of deformation processes: A new approach. Acta Materialia, 2011, 59, 3680-3687. | 3.8 | 155 |
| 29 | Effect of Ion Irradiation on Dislocation Processes in Stainless Steel. Materials Research Society Symposia Proceedings, 2011, 1363, 1. | 0.1 | 1 |