Jeffrey Jones Venezuela

List of Publications by Year
in descending order

31 papers	1,340 citations	331670 21 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	850 citing authors

#	ARTICLE	IF	CITATIONS
1	A review of hydrogen embrittlement of martensitic advanced high-strength steels. Corrosion Reviews, 2016, 34, 153-186.	2.0	141
2	The influence of hydrogen on the mechanical and fracture properties of some martensitic advanced high strength steels studied using the linearly increasing stress test. Corrosion Science, 2015, 99, 98-117.	6.6	115
3	Additively manufactured iron-manganese for biodegradable porous load-bearing bone scaffold applications. Acta Biomaterialia, 2020, 103, 346-360.	8.3	111
4	Hydrogen trapping in some advanced high strength steels. Corrosion Science, 2016, 111, 770-785.	6.6	105
5	Hydrogen influence on some advanced high-strength steels. Corrosion Science, 2017, 125, 114-138.	6.6	90
6	The influence of microstructure on the hydrogen embrittlement susceptibility of martensitic advanced high strength steels. Materials Today Communications, 2018, 17, 1-14.	1.9	72
7	A review of the influence of hydrogen on the mechanical properties of DP, TRIP, and TWIP advanced high-strength steels for auto construction. Corrosion Reviews, 2016, 34, 127-152.	2.0	70
8	Influence of hydrogen on the mechanical and fracture properties of some martensitic advanced high strength steels in simulated service conditions. Corrosion Science, 2016, 111, 602-624.	6.6	65
9	Exploring the Role of Manganese on the Microstructure, Mechanical Properties, Biodegradability, and Biocompatibility of Porous Iron-Based Scaffolds. ACS Biomaterials Science and Engineering, 2019, 5, 1686-1702.	5.2	62
10	Hydrogen Trapping in Some Automotive Martensitic Advanced Highâ€Strength Steels. Advanced Engineering Materials, 2018, 20, 1700468.	3.5	46
11	Equivalent hydrogen fugacity during electrochemical charging of some martensitic advanced high-strength steels. Corrosion Science, 2017, 127, 45-58.	6.6	44
12	Further study of the hydrogen embrittlement of martensitic advanced high-strength steel in simulated auto service conditions. Corrosion Science, 2018, 135, 120-135.	6.6	42
13	Hydrogen embrittlement of an automotive 1700 MPa martensitic advanced high-strength steel. Corrosion Science, 2020, 171, 108726.	6.6	42
14	The influence of Ca and Cu additions on the microstructure, mechanical and degradation properties of Znâ€“Caâ€“Cu alloys for absorbable wound closure device applications. Bioactive Materials, 2021, 6, 1436-1451.	15.6	42
15	Zinc-nutrient element based alloys for absorbable wound closure devices fabrication: Current status, challenges, and future prospects. Biomaterials, 2022, 280, 121301.	11.4	33
16	<i>In</i>-<i>Situ</i> Observation of the Continuous Phase Transition in Determining the High Thermoelectric Performance of Polycrystalline Sn_{0.98}Se. Journal of Physical Chemistry Letters, 2019, 10, 6512-6517.	4.6	32
17	Hydrogen Concentration in Dualâ€Phase (DP) and Quenched and Partitioned (Q&P) Advanced Highâ€Strength Steels (AHSS) under Simulated Service Conditions Compared with Cathodic Charging Conditions. Advanced Engineering Materials, 2016, 18, 1588-1599.	3.5	28
18	Effect of vanadium and rare earth microalloying on the hydrogen embrittlement susceptibility of a Fe-18Mn-0.6C TWIP steel studied using the linearly increasing stress test. Corrosion Science, 2021, 185, 109440.	6.6	27

#	Article	IF	Citations
19	Evaluation of the influence of hydrogen on some commercial DP, Q&P and TWIP advanced high-strength steels during automobile service. Engineering Failure Analysis, 2018, 94, 249-273.	4.0	24
20	In Vivo Evaluation of Bioabsorbable Feâ€35Mnâ€1Ag: First Reports on In Vivo Hydrogen Gas Evolution in Feâ€Based Implants. Advanced Healthcare Materials, 2021, 10, e2000667.	7.6	22
21	Equivalent Hydrogen Fugacity during Electrochemical Charging of 980DP Steel Determined by Thermal Desorption Spectroscopy. Advanced Engineering Materials, 2018, 20, 1700469.	3.5	21
22	Hydrogen-induced fast fracture in notched 1500 and 1700 MPa class automotive martensitic advanced high-strength steel. Corrosion Science, 2021, 188, 109550.	6.6	21
23	Effect of plastic strain damage on the hydrogen embrittlement of a dual-phase (DP) and a quenching and partitioning (Q&P) advanced high-strength steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 785, 139343.	5.6	20
24	Microstructure refinement in biodegradable Zn-Cu-Ca alloy for enhanced mechanical properties, degradation homogeneity, and strength retention in simulated physiological condition. Journal of Materials Science and Technology, 2022, 125, 1-14.	10.7	17
25	Evaluation of automobile service performance using laboratory testing. Materials Science and Technology, 2018, 34, 1893-1909.	1.6	13
26	In vivo performance of a rare earth free Mgâ€"Znâ€"Ca alloy manufactured using twin roll casting for potential applications in the cranial and maxillofacial fixation devices. Bioactive Materials, 2022, 12, 85-96.	15.6	10
27	Ultrasonic treatment for the refinement of brittle CaZn13 phases in a biomedical Zn-Cu-Ca alloy. Materials Letters, 2021, 305, 130754.	2.6	7
28	Design, mechanical and degradation requirements of biodegradable metal mesh for pelvic floor reconstruction. Biomaterials Science, 2022, 10, 3371-3392.	5.4	6
29	The influence of phosphorus on the temper embrittlement and hydrogen embrittlement of some dual-phase steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 854, 143379.	5.6	5
30	Influence of hydrogen on the Sâ€"N fatigue of DP1180 advanced high-strength steel. Corrosion Science, 2022, 205, 110465.	6.6	4
31	Hydrogen-induced delayed fracture of a 1180â€¯MPa martensitic advanced high-strength steel under U-bend loading. Materials Today Communications, 2021, 26, 101887.	1.9	3