

Masoud Moshtaghi

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

473
citations

516215

16
h-index

794141

19
g-index

19
all docs

19
docs citations

19
times ranked

136
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of hydrogen embrittlement in high-strength aluminum alloys containing coherent or incoherent dispersoids. <i>Corrosion Science</i> , 2022, 194, 109895.	3.0	35
2	Hydrogen absorption rate and hydrogen diffusion in a ferritic steel coated with a micro- or nanostructured ZnNi coating. <i>Electrochemistry Communications</i> , 2022, 134, 107169.	2.3	22
3	Investigation of the effects of temperature and exposure time on the corrosion behavior of a ferritic steel in CO ₂ environment using the optimized linear polarization resistance method. <i>Results in Materials</i> , 2022, 14, 100282.	0.9	8
4	Temperature mitigates the hydrogen embrittlement sensitivity of martensitic steels in slow strain rates. <i>Vacuum</i> , 2022, 202, 111187.	1.6	10
5	Hydrogen trapping and desorption affected by ferrite grain boundary types in shielded metal and flux-cored arc weldments with Ni addition. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20676-20683.	3.8	35
6	Combined thermal desorption spectroscopy, hydrogen visualization, HRTEM and EBSD investigation of a Ni-Fe-Cr alloy: The role of hydrogen trapping behavior in hydrogen-assisted fracture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143428.	2.6	13
7	Effect of Work-Hardening Mechanisms in Asymmetrically Cyclic-Loaded Austenitic Stainless Steels on Low-Cycle and High-Cycle Fatigue Behavior. <i>Steel Research International</i> , 2021, 92, .	1.0	19
8	Environmental hydrogen embrittlement associated with decohesion and void formation at soluble coarse particles in a cold-rolled Al-Cu based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 139850.	2.6	37
9	On the role of traps in the microstructural control of environmental hydrogen embrittlement of a 7xxx series aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157300.	2.8	41
10	Unraveling the effect of dislocations and deformation-induced boundaries on environmental hydrogen embrittlement behavior of a cold-rolled Al-Zn-Mg-Cu alloy. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8285-8299.	3.8	48
11	Effect of solution treatment temperature on grain boundary composition and environmental hydrogen embrittlement of an Al-Zn-Mg-Cu alloy. <i>Vacuum</i> , 2021, 184, 109937.	1.6	26
12	Influence of microstructure-driven hydrogen distribution on environmental hydrogen embrittlement of an Al-Cu-Mg alloy. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37502-37508.	3.8	26
13	Role of Ultrasonic Shot Peening in Environmental Hydrogen Embrittlement Behavior of 7075-T6 Alloy. <i>Hydrogen</i> , 2021, 2, 377-385.	1.7	18
14	Effect of environmental relative humidity on hydrogen-induced mechanical degradation in an Al-Zn-Mg-Cu alloy. <i>Vacuum</i> , 2021, 192, 110489.	1.6	28
15	Effect of strain rate on environmental hydrogen embrittlement susceptibility of a severely cold-rolled Al-Cu alloy. <i>Vacuum</i> , 2020, 172, 109057.	1.6	30
16	Characterization of Dislocation Evolution in Cyclically Loaded Austenitic and Ferritic Stainless Steels via XRD Line-profile Analysis. <i>ISIJ International</i> , 2019, 59, 1591-1598.	0.6	22
17	Effect of dwelling time in VIM furnace on chemical composition and mechanical properties of a Ni-Fe-Cr alloy. <i>Vacuum</i> , 2019, 169, 108890.	1.6	19
18	The effect of removing worn particles by ultrasonic cleaning on the wear characterization of LM13 alloy. <i>Surface Engineering and Applied Electrochemistry</i> , 2015, 51, 382-388.	0.3	16

#	ARTICLE	IF	CITATIONS
19	Effect of vacuum degree in VIM furnace on mechanical properties of Ni-Fe-Cr based alloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 2124-2130.	1.7	20