

Mahdieh Safyari

List of Publications by Year in descending order

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#	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	Temperature mitigates the hydrogen embrittlement sensitivity of martensitic steels in slow strain rates. <i>Vacuum</i> , 2022, 202, 111187.	1.6	10
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Role of Ultrasonic Shot Peening in Environmental Hydrogen Embrittlement Behavior of 7075-T6 Alloy. <i>Hydrogen</i> , 2021, 2, 377-385.	1.7	18
13	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
14	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
15	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
16	Effect of aging conditions on resistance to hydrogen embrittlement of 2219 aluminum alloy. <i>The Proceedings of Ibaraki District Conference</i> , 2019, 2019.27, 411.	0.0	2
17	Effect of solution treatment temperature on mechanical properties of cold-rolled Al-Zn-Mg alloy. <i>The Proceedings of Ibaraki District Conference</i> , 2019, 2019.27, 421.	0.0	1