

# Mahdieh Safyari

## List of Publications by Year in descending order

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17  
papers

410  
citations

686830

13  
h-index

887659

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

122  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Environmental hydrogen embrittlement associated with decohesion and void formation at soluble coarse particles in a cold-rolled Al–Cu based alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 139850.	2.6	37
4	Mechanisms of hydrogen embrittlement in high-strength aluminum alloys containing coherent or incoherent dispersoids. <i>Corrosion Science</i> , 2022, 194, 109895.	3.0	35
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	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
7	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
8	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
9	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
10	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
11	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
12	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
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	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143428.	2.6	13
15	Temperature mitigates the hydrogen embrittlement sensitivity of martensitic steels in slow strain rates. <i>Vacuum</i> , 2022, 202, 111187.	1.6	10
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