Junsoo Han

List of Publications by Year
in descending order

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21	307	840776 11	839539 18
papers	citations	h-index	g-index

21	21	21	176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aqueous passivation of multi-principal element alloy Ni38Fe20Cr22Mn10Co10: Unexpected high Cr enrichment within the passive film. Acta Materialia, 2020, 198, 121-133.	7.9	64
2	Editors' Choiceâ€"Dealloying of MgZn₂Intermetallic in Slightly Alkaline Chloride Electrolyte and Its Significance in Corrosion Resistance. Journal of the Electrochemical Society, 2017, 164, C952-C961.	2.9	34
3	Potential-pH diagrams considering complex oxide solution phases for understanding aqueous corrosion of multi-principal element alloys. Npj Materials Degradation, 2020, 4, .	5.8	26
4	Communicationâ€"Dissolution and Passivation of a Ni-Cr-Fe-Ru-Mo-W High Entropy Alloy by Elementally Resolved Electrochemistry. Journal of the Electrochemical Society, 2020, 167, 061505.	2.9	18
5	Electrochemical study of the dissolution of oxide films grown on type 316L stainless steel in molten fluoride salt. Corrosion Science, 2021, 186, 109457.	6.6	18
6	Zr-based conversion coating on Zn and Zn-Al-Mg alloy coating: Understanding the accelerating effect of Cu(II) and NO3â˜. Surface and Coatings Technology, 2020, 402, 126236.	4.8	17
7	Element redistributions during early stages of oxidation in a Ni38Cr22Fe20Mn10Co10 multi-principal element alloy. Scripta Materialia, 2021, 194, 113609.	5.2	16
8	Potential Dependent Mn Oxidation and Its Role in Passivation of Ni₃₈Fe₂₀Cr₂₂Mn₁₀Co₁₀Multi-Principal Element Alloy Using Multi-Element Resolved Atomic Emission Spectroelectrochemistry. Journal of the Electrochemical Society, 2021, 168, 051508.	2.9	15
9	Cathodic Dealloying of Î±-Phase Al-Zn in Slightly Alkaline Chloride Electrolyte and Its Consequence for Corrosion Resistance. Journal of the Electrochemical Society, 2018, 165, C334-C342.	2.9	13
10	Effect of added porosity on a novel porous Ti-Nb-Ta-Fe-Mn alloy exposed to simulated body fluid. Materials Science and Engineering C, 2020, 111, 110758.	7.3	13
11	The anodic and cathodic dissolution of Î±-phase Zn-68Al in alkaline media. Corrosion Science, 2019, 148, 1-11.	6.6	12
12	Oxygen injection during fast vs slow passivation in aqueous solution. Acta Materialia, 2021, 213, 116898.	7.9	11
13	Effect of Mn Content on the Passivation and Corrosion of Al0.3Cr0.5Fe2MnxMo0.15Ni1.5Ti0.3 Compositionally Complex Face-Centered Cubic Alloys. Corrosion, 2022, 78, 32-48.	1.1	11
14	Communicationâ€"Hydrogen Evolution and Elemental Dissolution by Combined Gravimetric Method and Atomic Emission Spectroelectrochemistry. Journal of the Electrochemical Society, 2019, 166, C3068-C3070.	2.9	10
15	Electrochemical stability, physical, and electronic properties of thermally pre-formed oxide compared to artificially sputtered oxide on Fe thin films in aqueous chloride. Corrosion Science, 2021, 186, 109456.	6.6	8
16	Distinguishing interfacial double layer and oxide-based capacitance on gold and pre-oxidized Fe-Cr in 1-ethyl-3-methylimidazolium methanesulfonate room temperature ionic liquid aqueous mixture. Electrochemistry Communications, 2021, 122, 106900.	4.7	6
17	Temperature Dependence of the Passivation and Dissolution of Al, Zn, and Î±-Phase Zn-68Al. Corrosion, 2019, 75, 69-79.	1.1	5
18	Electrical properties of thermal oxide scales on pure iron in liquid lead-bismuth eutectic. Corrosion Science, 2020, 176, 109052.	6.6	5

#	Article	IF	Citations
19	Refining anodic and cathodic dissolution mechanisms: combined AESEC-EIS applied to Al-Zn pure phase in alkaline solution. Npj Materials Degradation, 2020, 4, .	5.8	5
20	Metal-Ionic Phase Reactions in Molten Salt Ionic Liquids: Experimental, Thermodynamic and Kinetic Analysis of the Alteration of Preformed-Oxides on Fe-Cr Alloys. ECS Meeting Abstracts, 2019, , .	0.0	0
21	Passivation Phenomena in Single Phase High Entropy Alloys: The Evolution of Oxide Composition in Chloride. ECS Meeting Abstracts, 2019, , .	0.0	0