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	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
2	Element redistributions during early stages of oxidation in a Ni38Cr22Fe20Mn10Co10 multi-principal element alloy. Scripta Materialia, 2021, 194, 113609.	5.2	16
3	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
4	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
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	Oxygen injection during fast vs slow passivation in aqueous solution. Acta Materialia, 2021, 213, 116898.	7.9	11
7	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
8	Electrical properties of thermal oxide scales on pure iron in liquid lead-bismuth eutectic. Corrosion Science, 2020, 176, 109052.	6.6	5
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	Temperature Dependence of the Passivation and Dissolution of Al, Zn, and Î±-Phase Zn-68Al. Corrosion, 2019, 75, 69-79.	1.1	5
17	The anodic and cathodic dissolution of Î±-phase Zn-68Al in alkaline media. Corrosion Science, 2019, 148, 1-11.	6.6	12
18	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

#	Article	IF	Citations
19	Passivation Phenomena in Single Phase High Entropy Alloys: The Evolution of Oxide Composition in Chloride. ECS Meeting Abstracts, 2019, , .	0.0	0
20	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
21	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