

Xiejing Luo

List of Publications by Year in descending order

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21
papers

818
citations

516710

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713466

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all docs

21
docs citations

21
times ranked

513
citing authors

#	ARTICLE	IF	CITATIONS
1	Image Deep Learning Assisted Prediction of Mechanical and Corrosion Behavior for Al-Zn-Mg Alloys. IEEE Access, 2022, 10, 35620-35631.	4.2	4
2	The corrosion behavior of Ti6Al4V fabricated by selective laser melting in the artificial saliva with different fluoride concentrations and pH values. Corrosion Science, 2021, 179, 109097.	6.6	43
3	Study on corrosion behavior of In^{2+} -Sn and intermetallic compounds phases in SAC305 alloy by in-situ EC-AFM and first-principles calculation. Corrosion Science, 2021, 181, 109244.	6.6	27
4	High-throughput computing for screening the potential alloying elements of a 7xxx aluminum alloy for increasing the alloy resistance to stress corrosion cracking. Corrosion Science, 2021, 183, 109304.	6.6	17
5	Unexpected Stress Corrosion Cracking Improvement Achieved by Recrystallized Layer in Al-Zn-Mg Alloy. Journal of Materials Engineering and Performance, 2021, 30, 6258-6268.	2.5	5
6	Integrated computation of corrosion: Modelling, simulation and applications. Corrosion Communications, 2021, 2, 8-23.	6.0	22
7	Computational simulation and efficient evaluation on corrosion inhibitors for electrochemical etching on aluminum foil. Corrosion Science, 2021, 187, 109492.	6.6	24
8	Revealing the inner rules of PREN from electronic aspect by first-principles calculations. Corrosion Science, 2021, 189, 109561.	6.6	17
9	Superior resistance to hydrogen damage for selective laser melted 316L stainless steel in a proton exchange membrane fuel cell environment. Corrosion Science, 2020, 166, 108425.	6.6	76
10	Design materials based on simulation results of silicon induced segregation at AlSi10Mg interface fabricated by selective laser melting. Journal of Materials Science and Technology, 2020, 46, 145-155.	10.7	33
11	Discontinuous model combined with an atomic mechanism simulates the precipitated In^{2+} phase effect in intergranular cracking of 7-series aluminum alloys. Computational Materials Science, 2019, 166, 282-292.	3.0	9
12	The effect of sub-grain structure on intergranular corrosion of 316L stainless steel fabricated via selective laser melting. Materials Letters, 2019, 243, 157-160.	2.6	57
13	The enhancement of microstructure on the passive and pitting behaviors of selective laser melting 316L SS in simulated body fluid. Applied Surface Science, 2019, 467-468, 193-205.	6.1	152
14	Effect of Mo on interaction between In^{2+} / In^{3+} phases of duplex stainless steel. Electrochimica Acta, 2018, 267, 255-268.	5.2	67
15	Characterization of the Outer Layer Nanostructure in the Electrochemical Response of Stainless Steel in Aqueous Sodium Hydroxide. Analytical Letters, 2018, 51, 1384-1399.	1.8	8
16	Electrochemical measurements and atomistic simulations of Cl^{-} -induced passivity breakdown on a Cu ₂ O film. Corrosion Science, 2018, 136, 119-128.	6.6	31
17	Effects of mould on electrochemical migration behaviour of immersion silver finished printed circuit board. Bioelectrochemistry, 2018, 119, 203-210.	4.6	25
18	A comparative study of primary and secondary passive films formed on AM355 stainless steel in 0.1 M NaOH. Applied Surface Science, 2018, 427, 763-773.	6.1	96

#	ARTICLE	IF	CITATIONS
19	Surface failure mechanism of PCB-ENIG in typical outdoor atmospheric environments. <i>Materials Research Bulletin</i> , 2017, 91, 179-188.	5.2	22
20	Stress corrosion cracking of ultrahigh strength martensite steel Cr9Ni5MoCo14 in 3.5% NaCl solution. <i>Aerospace Science and Technology</i> , 2014, 36, 125-131.	4.8	22
21	Electrochemical migration, whisker formation, and corrosion behavior of printed circuit board under wet H ₂ S environment. <i>Electrochimica Acta</i> , 2013, 114, 363-371.	5.2	61