

Bo Zhang

List of Publications by Year in descending order

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28
papers

1,048
citations

361413

20
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

739
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations between stress corrosion cracking susceptibility and grain boundary microstructures for an Al–Zn–Mg alloy. <i>Corrosion Science</i> , 2013, 77, 103-112.	6.6	127
2	The role of reversed austenite in hydrogen embrittlement fracture of S41500 martensitic stainless steel. <i>Acta Materialia</i> , 2017, 139, 188-195.	7.9	102
3	Suppressing atomic diffusion with the Schwarz crystal structure in supersaturated Al–Mg alloys. <i>Science</i> , 2021, 373, 683-687.	12.6	63
4	Effect of grain refinement on the hydrogen embrittlement of 304 austenitic stainless steel. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2213-2219.	10.7	61
5	Stress corrosion cracking resistant nanostructured Al-Mg alloy with low angle grain boundaries. <i>Acta Materialia</i> , 2022, 225, 117607.	7.9	60
6	Anisotropic 3D growth of corrosion pits initiated at MnS inclusions for A537 steel during corrosion fatigue. <i>Corrosion Science</i> , 2010, 52, 2867-2877.	6.6	56
7	SVET and SIET Study of Galvanic Corrosion of Al/MgZn ₂ in Aqueous Solutions at Different pH. <i>Journal of the Electrochemical Society</i> , 2018, 165, C180-C194.	2.9	48
8	The reliability of electrochemical noise and current transients characterizing metastable pitting of Al–Mg–Si microelectrodes. <i>Corrosion Science</i> , 2014, 80, 1-6.	6.6	43
9	Effects of cyclic stress on the metastable pitting characteristic for 304 stainless steel under potentiostatic polarization. <i>Corrosion Science</i> , 2015, 93, 80-89.	6.6	43
10	Effects of inclusion and loading direction on the fatigue behavior of hot rolled low carbon steel. <i>International Journal of Fatigue</i> , 2010, 32, 1116-1125.	5.7	41
11	Understanding the galvanic corrosion of the Q-phase/Al couple using SVET and SIET. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1444-1454.	10.7	40
12	Atom probe tomographic observation of hydrogen trapping at carbides/ferrite interfaces for a high strength steel. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1344-1348.	10.7	39
13	Effects of a small addition of Mn on the corrosion behaviour of Zn in a mixed solution. <i>Electrochimica Acta</i> , 2009, 54, 6598-6608.	5.2	38
14	SVET Study of Galvanic Corrosion of Al/Mg ₂ Si Couple in Aqueous Solutions at Different pH. <i>Journal of the Electrochemical Society</i> , 2017, 164, C240-C249.	2.9	38
15	Influence of aging treatment on the pitting behavior associated with the dissolution of active nanoscale β -phase precipitates for an Al–Mg alloy. <i>Corrosion Science</i> , 2016, 103, 255-267.	6.6	33
16	Electrochemical, TOF-SIMS and XPS studies on the corrosion behavior of Q-phase in NaCl solutions as a function of pH. <i>Applied Surface Science</i> , 2019, 490, 535-545.	6.1	32
17	A nanotwinned austenite stainless steel with high hydrogen embrittlement resistance. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1066-1075.	5.5	30
18	Understanding the electrochemical behavior of bulk-synthesized MgZn ₂ intermetallic compound in aqueous NaCl solutions as a function of pH. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1165-1177.	2.5	29

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19	Atom probe tomographic study of elemental segregation at grain boundaries for a peak-aged Al–Zn–Mg alloy. <i>Corrosion Science</i> , 2014, 79, 1-4.	6.6	27
20	The effect of 0.4wt.% Mn addition on the localized corrosion behaviour of zinc in a long-term experiment. <i>Electrochimica Acta</i> , 2012, 65, 294-304.	5.2	21
21	Detection and analysis of anodic current transients associated with nanoscale β -phase precipitates on an Al–Mg microelectrode. <i>Corrosion Science</i> , 2015, 95, 6-10.	6.6	19
22	SVET and ToF-SIMS Studies on the Galvanic Corrosion of β -phase/Aluminum Couple in Aqueous Solutions as a Function of pH. <i>Journal of the Electrochemical Society</i> , 2020, 167, 021507.	2.9	19
23	Effect of small addition of Mn on the passivation of Zn in 0.1M NaOH solution. <i>Electrochimica Acta</i> , 2011, 56, 1417-1425.	5.2	17
24	Hydrogen-assisted fracture features of a high strength ferrite-pearlite steel. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1081-1087.	10.7	11
25	Quantitative Understanding of the Current Responses under Elastic Cyclic Loading for 304 Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2016, 163, C627-C632.	2.9	4
26	Thermally stable and corrosion resistant nanolaminated Al-Mn alloy with low angle boundary structures. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165016.	5.5	4
27	Improvement of hydrogen embrittlement resistance by intense pulsed ion beams for a martensitic steel. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21239-21248.	7.1	3
28	Stress and Deformation Distribution and Microstructure Changes Around Pin-Loaded Holes in Medium Manganese Steel Plates. <i>Jom</i> , 2021, 73, 3301-3311.	1.9	0