

Hong Luo

List of Publications by Year in descending order

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67
papers

4,208
citations

117625

34
h-index

114465

63
g-index

69
all docs

69
docs citations

69
times ranked

2589
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behavior of an equiatomic CoCrFeMnNi high-entropy alloy compared with 304 stainless steel in sulfuric acid solution. <i>Corrosion Science</i> , 2018, 134, 131-139.	6.6	465
2	The electrochemical behaviour of 2205 duplex stainless steel in alkaline solutions with different pH in the presence of chloride. <i>Electrochimica Acta</i> , 2012, 64, 211-220.	5.2	336
3	Recent advances on environmental corrosion behavior and mechanism of high-entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021, 80, 217-233.	10.7	250
4	Characterization of passive film on 2205 duplex stainless steel in sodium thiosulphate solution. <i>Applied Surface Science</i> , 2011, 258, 631-639.	6.1	210
5	Passivation and electrochemical behavior of 316L stainless steel in chlorinated simulated concrete pore solution. <i>Applied Surface Science</i> , 2017, 400, 38-48.	6.1	171
6	The passivity of selective laser melted 316L stainless steel. <i>Applied Surface Science</i> , 2020, 504, 144495.	6.1	139
7	Hydrogen enhances strength and ductility of an equiatomic high-entropy alloy. <i>Scientific Reports</i> , 2017, 7, 9892.	3.3	132
8	Corrosion resistance enhancement of CoCrFeMnNi high-entropy alloy fabricated by additive manufacturing. <i>Corrosion Science</i> , 2020, 177, 108954.	6.6	130
9	Beating hydrogen with its own weapon: Nano-twin gradients enhance embrittlement resistance of a high-entropy alloy. <i>Materials Today</i> , 2018, 21, 1003-1009.	14.2	127
10	Influence of carbon on the corrosion behaviour of interstitial equiatomic CoCrFeMnNi high-entropy alloys in a chlorinated concrete solution. <i>Corrosion Science</i> , 2020, 163, 108287.	6.6	123
11	Effect of cold deformation on the corrosion behaviour of UNS S31803 duplex stainless steel in simulated concrete pore solution. <i>Corrosion Science</i> , 2017, 124, 178-192.	6.6	116
12	A strong and ductile medium-entropy alloy resists hydrogen embrittlement and corrosion. <i>Nature Communications</i> , 2020, 11, 3081.	12.8	116
13	Development of electroless Ni-P/nano-WC composite coatings and investigation on its properties. <i>Surface and Coatings Technology</i> , 2015, 277, 99-106.	4.8	115
14	Hydrogen embrittlement of an interstitial equimolar high-entropy alloy. <i>Corrosion Science</i> , 2018, 136, 403-408.	6.6	96
15	Characterization of electrochemical and passive behaviour of Alloy 59 in acid solution. <i>Electrochimica Acta</i> , 2014, 135, 412-419.	5.2	95
16	X-ray photoelectron spectroscopy and electrochemical investigation of the passive behavior of high-entropy FeCoCrNiMox alloys in sulfuric acid. <i>Applied Surface Science</i> , 2020, 499, 143903.	6.1	89
17	Evolution in microstructure, wear, corrosion, and tribocorrosion behavior of Mo-containing high-entropy alloy coatings fabricated by laser cladding. <i>Corrosion Science</i> , 2021, 191, 109727.	6.6	77
18	Superior resistance to hydrogen damage for selective laser melted 316L stainless steel in a proton exchange membrane fuel cell environment. <i>Corrosion Science</i> , 2020, 166, 108425.	6.6	76

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19	Effect of cold deformation on the electrochemical behaviour of 304L stainless steel in contaminated sulfuric acid environment. <i>Applied Surface Science</i> , 2017, 425, 628-638.	6.1	70
20	Effects of hydrogen and stress on the electrochemical and passivation behaviour of 304 stainless steel in simulated PEMFC environment. <i>Electrochimica Acta</i> , 2019, 293, 60-77.	5.2	68
21	Electrochemical and passivation behavior investigation of ferritic stainless steel in alkaline environment. <i>Construction and Building Materials</i> , 2015, 96, 502-507.	7.2	67
22	Structure-engineered electrocatalyst enables highly active and stable oxygen evolution reaction over layered perovskite $\text{LaSr}_3\text{Co}_{1.5}\text{Fe}_{1.5}\text{O}_{10-\delta}$. <i>Nano Energy</i> , 2017, 40, 115-121.	16.0	67
23	Electrochemical and passive behaviour of tin alloyed ferritic stainless steel in concrete environment. <i>Applied Surface Science</i> , 2018, 439, 232-239.	6.1	67
24	Influence of the aging time on the microstructure and electrochemical behaviour of a 15-5PH ultra-high strength stainless steel. <i>Corrosion Science</i> , 2018, 139, 185-196.	6.6	65
25	Hydrogen effects on microstructural evolution and passive film characteristics of a duplex stainless steel. <i>Electrochemistry Communications</i> , 2017, 79, 28-32.	4.7	62
26	The corrosion behavior and film properties of Al-containing high-entropy alloys in acidic solutions. <i>Applied Surface Science</i> , 2021, 560, 149854.	6.1	58
27	A study on corrosion behaviors of Ni-Cr-Mo laser coating, 316 stainless steel and X70 steel in simulated solutions with H ₂ S and CO ₂ . <i>Surface and Coatings Technology</i> , 2016, 291, 250-257.	4.8	57
28	Scanning electrochemical microscopy study on the electrochemical behavior of CrN film formed on 304 stainless steel by magnetron sputtering. <i>Electrochimica Acta</i> , 2013, 114, 233-241.	5.2	56
29	Influence of pH on the passivation behaviour of 904L stainless steel bipolar plates for proton exchange membrane fuel cells. <i>Journal of Alloys and Compounds</i> , 2016, 686, 216-226.	5.5	52
30	The passive behaviour of ferritic stainless steel containing alloyed tin in acidic media. <i>RSC Advances</i> , 2016, 6, 9940-9949.	3.6	46
31	Effect of cold deformation on corrosion behavior of selective laser melted 316L stainless steel bipolar plates in a simulated environment for proton exchange membrane fuel cells. <i>Corrosion Science</i> , 2022, 201, 110257.	6.6	46
32	Synthesis of a duplex Ni-P-YSZ/Ni-P nanocomposite coating and investigation of its performance. <i>Surface and Coatings Technology</i> , 2017, 311, 70-79.	4.8	44
33	Review "Corrosion-Resistant High-Entropy Alloy Coatings: A Review. <i>Journal of the Electrochemical Society</i> , 2021, 168, 111502.	2.9	44
34	Hydrogen resistance of a 1 GPa strong equiatomic CoCrNi medium entropy alloy. <i>Corrosion Science</i> , 2020, 167, 108510.	6.6	42
35	Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO ₂ composite coating. <i>Materials Today Physics</i> , 2018, 4, 36-42.	6.0	37
36	Effect of annealing temperatures on microstructural evolution and corrosion behavior of Ti-Mo titanium alloy in hydrochloric acid. <i>Corrosion Science</i> , 2022, 197, 110079.	6.6	30

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37	Electrochemical Behavior and Nonlinear Mott-Schottky Characterization of a Stainless Steel Passive Film. <i>Analytical Letters</i> , 2014, 47, 1162-1181.	1.8	29
38	Deformation mechanisms of TRIP/TWIP medium-entropy alloys via molecular dynamics simulations. <i>International Journal of Mechanical Sciences</i> , 2022, 219, 107098.	6.7	27
39	Enhancing catalytic activity of tungsten disulfide through topology. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117802.	20.2	26
40	Genome of lethal <i>Lepiota venenata</i> and insights into the evolution of toxin-biosynthetic genes. <i>BMC Genomics</i> , 2019, 20, 198.	2.8	20
41	Preparation and characterization of anticorrosion Ormosil sol-gel coatings for aluminum alloy. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 8-20.	2.4	19
42	Zr ₂ N ₂ O Coating-Improved Corrosion Resistance for the Anodic Dissolution Induced by Cathodic Transient Potential. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40111-40124.	8.0	19
43	Hydrogen induced microstructure evolution and cracking mechanism in a metastable dual-phase high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141490.	5.6	19
44	Effect of electrochemical hydrogen charging on the mechanical property and corrosion behavior of Ti-3Mo alloy. <i>Corrosion Science</i> , 2022, 200, 110219.	6.6	18
45	A comprehensive study on frictional dependence and predictive accuracy of viscoelastic model for optical glass using compression creep test. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6606-6617.	3.8	17
46	Anticorrosion performance of chromized coating prepared by pack cementation in simulated solution with H ₂ S and CO ₂ . <i>Applied Surface Science</i> , 2017, 419, 197-205.	6.1	16
47	Effect of yttrium on properties of copper prepared by powder metallurgy. <i>Advanced Powder Technology</i> , 2015, 26, 1079-1086.	4.1	14
48	Electrochemical and passivation behavior investigation of ferritic stainless steel in simulated concrete pore media. <i>Data in Brief</i> , 2015, 5, 171-178.	1.0	13
49	Eigenfrequency characterization and tuning of Ti-6Al-4V ultrasonic horn at high temperatures for glass molding. <i>Ultrasonics</i> , 2020, 101, 106002.	3.9	13
50	Copper-tungsten electrode wear process and carbon layer characterization in electrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 1759-1768.	3.0	12
51	Mechanism study on microformability of optical glass in ultrasonic-assisted molding process. <i>International Journal of Applied Glass Science</i> , 2019, 10, 103-114.	2.0	11
52	Hydrogen embrittlement of high-strength marine steel as a weld joint in artificial seawater under cathodic polarization. <i>Engineering Failure Analysis</i> , 2022, 134, 106044.	4.0	10
53	Genes and evolutionary fates of the amanitin biosynthesis pathway in poisonous mushrooms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201113119.	7.1	10
54	Passive Film Properties and Electrochemical Behavior of Co-Cr-Mo Stainless Steel in Chloride Solution. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2237-2243.	2.5	9

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55	Reconstruction of high-speed cam curve based on high-order differential interpolation and shape adjustment. <i>Applied Mathematics and Computation</i> , 2019, 356, 272-281.	2.2	9
56	Electrochemical Behaviour and Surface Analytical of Welded Stainless Steel in the Room Temperature Simulated PWR Water. <i>ISIJ International</i> , 2012, 52, 2266-2272.	1.4	8
57	Hydrogen-assisted failure in partially recrystallized carbon alloyed equiatomic CoCrFeMnNi high-entropy alloy. <i>Corrosion Science</i> , 2022, 203, 110357.	6.6	8
58	Sensing application in the precursor region of localized corrosion by scanning electrochemical microscopy. <i>RSC Advances</i> , 2014, 4, 56582-56595.	3.6	7
59	The Effect of Melt Overheating on the Melt Structure Transition and Solidified Structures of Al-La Alloy. <i>Jom</i> , 2015, 67, 948-954.	1.9	7
60	Effects of Cu particle size on CuSnFeNi/diamond composite processed using hybrid microwave sintering. <i>Powder Metallurgy</i> , 2019, 62, 124-132.	1.7	7
61	Effect of trace Sr and Sc contents and ultrasonic vibration on the microstructure and mechanical properties of the A380 alloy. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877517.	1.6	4
62	Effects of Melt Thermal-Rate Treatment and Modification of Y on Zn-27Al Alloy. <i>Jom</i> , 2015, 67, 991-995.	1.9	3
63	Study effects on diamond concentration of CuSnFeNi/diamond composite on grinding WC. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 2863-2873.	3.0	3
64	Differential Expression of Amanitin Biosynthetic Genes and Novel Cyclic Peptides in <i>Amanita molluscula</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 384.	3.5	3
65	Investigation of the Antifouling Mechanism of Electroless Nickel-Phosphorus Coating against Sand and Bitumen. <i>Energy & Fuels</i> , 2019, 33, 6350-6360.	5.1	2
66	Effects of La ₂ O ₃ on Mechanical Properties and Corrosion Resistance of H62 Brass. <i>Jom</i> , 2017, 69, 184-190.	1.9	1
67	Electrochemical migration behavior of moldy printed circuit boards in a 10 mT magnetic field. <i>RSC Advances</i> , 2021, 11, 28178-28188.	3.6	0