Yakun Zhu

List of Publications by Year
in descending order

23	969	567281 15	839539 18
papers	citations	h-index	g-index

25	25	25	891
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Use of Surfactants in Enhanced Particle Removal During Cleaning. , 2022, , 125-159.		0
2	Introduction to Surfactants. , 2022, , 1-53.		0
3	Hydriding of titanium: Recent trends and perspectives in advanced characterization and multiscale modeling. Current Opinion in Solid State and Materials Science, 2022, 26, 101020.	11.5	15
4	Localized corrosion at nm-scale hardening precipitates in Al-Cu-Li alloys. Acta Materialia, 2020, 189, 204-213.	7.9	43
5	Effect of Major Intermetallic Particles on Localized Corrosion of AA2060-T8. Corrosion, 2019, 75, 29-41.	1.1	28
6	Micro- and nano-scale intermetallic phases in AA2070-T8 and their corrosion behavior. Electrochimica Acta, 2019, 319, 634-648.	5.2	40
7	Investigation of pre-existing particles in Al 5083 alloys. Journal of Alloys and Compounds, 2018, 740, 461-469.	5.5	61
8	Intermetallic Phases in Aluminum Alloys and Their Roles in Localized Corrosion. Journal of the Electrochemical Society, 2018, 165, C807-C820.	2.9	129
9	A review of surfactants as corrosion inhibitors and associated modeling. Progress in Materials Science, 2017, 90, 159-223.	32.8	270
10	Integrated evaluation of mixed surfactant distribution in water-oil-steel pipe environments and associated corrosion inhibition efficiency. Corrosion Science, 2016, 110, 213-227.	6.6	21
11	Experimental investigation and modeling of the performance of pure and mixed surfactant inhibitors: Micellization and corrosion inhibition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 489, 407-422.	4.7	24
12	The effects of surfactant concentration, adsorption, aggregation, and solution conditions on steel corrosion inhibition and associated modeling in aqueous media. Corrosion Science, 2016, 102, 233-250.	6.6	68
13	A Collector Plate Mechanism-Based Classical Intergranular Precipitation Model for Al Alloys Sensitized at Different Temperatures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5393-5406.	2.2	10
14	Electrochemical measurement, modeling, and prediction of corrosion inhibition efficiency of ternary mixtures of homologous surfactants in salt solution. Corrosion Science, 2015, 98, 417-429.	6.6	59
15	Experimental Investigation and Modeling of the Performance of Pure and Mixed Surfactant Inhibitors: Partitioning and Distribution in Water-Oil Environments. Journal of the Electrochemical Society, 2015, 162, C702-C717.	2.9	18
16	Experimental Investigation and Modeling of the Performance of Pure and Mixed Surfactant Inhibitors: Aggregation, Adsorption, and Corrosion Inhibition on Steel Pipe in Aqueous Phase. Journal of the Electrochemical Society, 2015, 162, C582-C591.	2.9	32
17	Evaluation of Ion Effects on Surfactant Aggregation from Improved Molecular Thermodynamic Modeling. Industrial & Engineering Chemistry Research, 2015, 54, 9052-9056.	3.7	17
18	Effects of Different Temper and Aging Temperature on the Precipitation Behavior of Al 5xxx Alloy. , 2015, , 361-365.		2

#	Article	IF	Citations
19	Capillarity Effect Controlled Precipitate Growth at the Grain Boundary of Long-Term Aging Al 5083 Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4851-4862.	2.2	33
20	Precipitates in Long Term Aging Al 5083 Alloy. , 2014, , 249-253.		4
21	Design, synthesis, and characterization of TPA-thiophene-based amide or imine functionalized molecule for potential optoelectronic devices. Journal of Theoretical and Applied Physics, 2013, 7, 4.	1.4	10
22	Evaluation of Al3Mg2 Precipitates and Mn-Rich Phase in Aluminum-Magnesium Alloy Based on Scanning Transmission Electron Microscopy Imaging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4933-4939.	2.2	79
23	Sensitization prediction and validation for Al 5xxx alloys exposed to long term cyclical and constant heating at low temperatures. Corrosion, 0, , .	1.1	2