

Yakun Zhu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3491393/publications.pdf>

Version: 2024-02-01

23
papers

969
citations

567281

15
h-index

839539

18
g-index

25
all docs

25
docs citations

25
times ranked

891
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of surfactants as corrosion inhibitors and associated modeling. <i>Progress in Materials Science</i> , 2017, 90, 159-223.	32.8	270
2	Intermetallic Phases in Aluminum Alloys and Their Roles in Localized Corrosion. <i>Journal of the Electrochemical Society</i> , 2018, 165, C807-C820.	2.9	129
3	Evaluation of Al ₃ Mg ₂ Precipitates and Mn-Rich Phase in Aluminum-Magnesium Alloy Based on Scanning Transmission Electron Microscopy Imaging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4933-4939.	2.2	79
4	The effects of surfactant concentration, adsorption, aggregation, and solution conditions on steel corrosion inhibition and associated modeling in aqueous media. <i>Corrosion Science</i> , 2016, 102, 233-250.	6.6	68
5	Investigation of pre-existing particles in Al 5083 alloys. <i>Journal of Alloys and Compounds</i> , 2018, 740, 461-469.	5.5	61
6	Electrochemical measurement, modeling, and prediction of corrosion inhibition efficiency of ternary mixtures of homologous surfactants in salt solution. <i>Corrosion Science</i> , 2015, 98, 417-429.	6.6	59
7	Localized corrosion at nm-scale hardening precipitates in Al-Cu-Li alloys. <i>Acta Materialia</i> , 2020, 189, 204-213.	7.9	43
8	Micro- and nano-scale intermetallic phases in AA2070-T8 and their corrosion behavior. <i>Electrochimica Acta</i> , 2019, 319, 634-648.	5.2	40
9	Capillarity Effect Controlled Precipitate Growth at the Grain Boundary of Long-Term Aging Al 5083 Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4851-4862.	2.2	33
10	Experimental Investigation and Modeling of the Performance of Pure and Mixed Surfactant Inhibitors: Aggregation, Adsorption, and Corrosion Inhibition on Steel Pipe in Aqueous Phase. <i>Journal of the Electrochemical Society</i> , 2015, 162, C582-C591.	2.9	32
11	Effect of Major Intermetallic Particles on Localized Corrosion of AA2060-T8. <i>Corrosion</i> , 2019, 75, 29-41.	1.1	28
12	Experimental investigation and modeling of the performance of pure and mixed surfactant inhibitors: Micellization and corrosion inhibition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 489, 407-422.	4.7	24
13	Integrated evaluation of mixed surfactant distribution in water-oil-steel pipe environments and associated corrosion inhibition efficiency. <i>Corrosion Science</i> , 2016, 110, 213-227.	6.6	21
14	Experimental Investigation and Modeling of the Performance of Pure and Mixed Surfactant Inhibitors: Partitioning and Distribution in Water-Oil Environments. <i>Journal of the Electrochemical Society</i> , 2015, 162, C702-C717.	2.9	18
15	Evaluation of Ion Effects on Surfactant Aggregation from Improved Molecular Thermodynamic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9052-9056.	3.7	17
16	Hydriding of titanium: Recent trends and perspectives in advanced characterization and multiscale modeling. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 101020.	11.5	15
17	Design, synthesis, and characterization of TPA-thiophene-based amide or imine functionalized molecule for potential optoelectronic devices. <i>Journal of Theoretical and Applied Physics</i> , 2013, 7, 4.	1.4	10
18	A Collector Plate Mechanism-Based Classical Intergranular Precipitation Model for Al Alloys Sensitized at Different Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5393-5406.	2.2	10

#	ARTICLE	IF	CITATIONS
19	Precipitates in Long Term Aging Al 5083 Alloy. , 2014, , 249-253.		4
20	Sensitization prediction and validation for Al 5xxx alloys exposed to long term cyclical and constant heating at low temperatures. Corrosion, 0, ,	1.1	2
21	Effects of Different Temper and Aging Temperature on the Precipitation Behavior of Al 5xxx Alloy. , 2015, , 361-365.		2
22	The Use of Surfactants in Enhanced Particle Removal During Cleaning. , 2022, , 125-159.		0
23	Introduction to Surfactants. , 2022, , 1-53.		0