

Zhao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,504
citations

430874

18
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395702

33
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docs citations

33
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Kinetics of a TiO ₂ Photoelectrocatalytic Reaction Involving Charge Transfer and Recombination through Surface States by Electrochemical Impedance Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 15008-15023.	2.6	422
2	Effect of rare earth element Ce and La on corrosion behavior of AM60 magnesium alloy. Corrosion Science, 2009, 51, 1334-1343.	6.6	257
3	Electrochemical noise analysis of LY12-T3 in EXCO solution by discrete wavelet transform technique. Electrochimica Acta, 2006, 51, 1359-1364.	5.2	92
4	Electrochemical noise study on 2024-T3 Aluminum alloy corrosion in simulated acid rain under cyclic wet-dry condition. Electrochimica Acta, 2006, 51, 4977-4986.	5.2	83
5	Analysis of pitting corrosion behavior of pure Al in sodium chloride solution with the wavelet technique. Journal of Electroanalytical Chemistry, 2005, 578, 143-150.	3.8	81
6	Study on the anodic film formation process of AZ91D magnesium alloy. Electrochimica Acta, 2007, 52, 5325-5333.	5.2	77
7	Study on the behavior of Zn-Fe alloy electroplating. Journal of Electroanalytical Chemistry, 2001, 516, 127-130.	3.8	61
8	Study of the zinc electroplating process using electrochemical noise technique. Journal of Electroanalytical Chemistry, 2005, 578, 357-367.	3.8	48
9	Study of Tin Electroplating Process Using Electrochemical Impedance and Noise Techniques. Journal of the Electrochemical Society, 2013, 160, D530-D537.	2.9	34
10	In-situ monitoring of nickel electrodeposit structure using electrochemical noise technique. Transactions of Nonferrous Metals Society of China, 2006, 16, 209-216.	4.2	27
11	Dimensional analysis applied to pitting corrosion measurements. Electrochimica Acta, 2008, 53, 2688-2698.	5.2	27
12	Electrochemical impedance spectroscopy analysis on aluminum alloys in EXCO solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 318-324.	1.5	26
13	In-situ monitoring the inhibition effect of benzotriazole on copper corrosion by electrochemical noise technique. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 908-914.	5.3	26
14	Superhydrophobic coating with multiscale structure based on crosslinked silanized polyacrylate and nanoparticles. Surface and Coatings Technology, 2017, 331, 40-47.	4.8	24
15	Study on adsorption behavior of ketoconazole on Q235 mild steel in 1.0×10 ⁻³ M HCl solution with electrochemical measurement. Journal of Alloys and Compounds, 2018, 758, 184-193.	5.5	22
16	Enhanced Photoelectrochemical Oxidation of Water over Ti-Doped Fe ₂ O ₃ Electrodes by Surface Electrodeposition InOOH. Journal of Physical Chemistry C, 2019, 123, 24352-24361.	3.1	22
17	Electrochemical noise characteristics in corrosion process of AZ91D magnesium alloy in neutral chloride solution. Transactions of Nonferrous Metals Society of China, 2009, 19, 496-503.	4.2	21
18	Influences of the main anodic electroplating parameters on cerium oxide films. Applied Surface Science, 2014, 305, 330-336.	6.1	21

#	ARTICLE	IF	CITATIONS
19	Comparative studies of two benzaldehyde thiosemicarbazone derivatives as corrosion inhibitors for mild steel in 1.0 M HCl. Results in Physics, 2018, 11, 554-563.	4.1	18
20	Study on the Electrochemical Oxidation Desulfurization Behavior of Model Diesel on Anodic Alumina Oxide and Ceria Nanotubes. Energy & Fuels, 2018, 32, 2612-2621.	5.1	16
21	Electrodeposition of silane/reduced graphene oxide nanocomposite on AA2024-T3 alloy with enhanced corrosion protection, chemical and mechanical stability. Journal of Alloys and Compounds, 2022, 911, 165058.	5.5	14
22	Surface Properties and Protein Adsorption Performance of Fluorinated Amphiphilic Polymers. Journal of Physical Chemistry C, 2019, 123, 12773-12780.	3.1	13
23	Understanding the enhanced photoelectrochemical water oxidation over Ti-doped Fe_2O_3 electrodes by electrochemical reduction pretreatment. Physical Chemistry Chemical Physics, 2020, 22, 7835-7843.	2.8	12
24	Exfoliation corrosion of Al-Li alloy 2090-T6 in EXCO solution: A study of electrochemical noise and electrochemical impedance spectroscopy. Materials and Corrosion - Werkstoffe Und Korrosion, 2006, 57, 484-490.	1.5	11
25	Preparation of AAO- CeO_2 nanotubes and their application in electrochemical oxidation desulfurization of diesel. Nanotechnology, 2017, 28, 065708.	2.6	10
26	Adsorption and protective behavior of BTAH on the initial atmospheric corrosion process of copper under thin film of chloride solutions. Scientific Reports, 2018, 8, 5606.	3.3	10
27	Corrosion behavior of 907 steel under thin electrolyte layers of artificial seawater. Journal of Central South University, 2015, 22, 806-814.	3.0	6
28	Fabrication of superhydrophobic surfaces with hierarchical structure and their corrosion resistance and self-cleaning properties. Surfaces and Interfaces, 2022, 28, 101608.	3.0	6
29	Correlation between the corrosion rate and electrochemical noise energy of copper in chloride electrolyte. RSC Advances, 2018, 8, 19208-19212.	3.6	5
30	Fabrication and characterization of the hierarchical AAO film and AAO- MnO_2 composite as the anode foil of aluminum electrolytic capacitor. Surface and Coatings Technology, 2021, 419, 127286.	4.8	5
31	Effects of anions on the underpotential deposition behavior of Cu on polycrystalline Pt. RSC Advances, 2018, 8, 19103-19115.	3.6	3
32	Investigation of the correlation between the electrochemical noise energy and the deposit structure. Journal of Electroanalytical Chemistry, 2021, 880, 114836.	3.8	3