

Axel Homborg

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

628
citations

840776

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1058476

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all docs

14
docs citations

14
times ranked

307
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-frequency methods for trend removal in electrochemical noise data. <i>Electrochimica Acta</i> , 2012, 70, 199-209.	5.2	97
2	Novel time-frequency characterization of electrochemical noise data in corrosion studies using Hilbert spectra. <i>Corrosion Science</i> , 2013, 66, 97-110.	6.6	88
3	A Novel Approach for the Evaluation of Under Deposit Corrosion in Marine Environments Using Combined Analysis by Electrochemical Impedance Spectroscopy and Electrochemical Noise. <i>Electrochimica Acta</i> , 2016, 217, 226-241.	5.2	74
4	Transient analysis through Hilbert spectra of electrochemical noise signals for the identification of localized corrosion of stainless steel. <i>Electrochimica Acta</i> , 2013, 104, 84-93.	5.2	66
5	A Critical Appraisal of the Interpretation of Electrochemical Noise for Corrosion Studies. <i>Corrosion</i> , 2014, 70, 971-987.	1.1	62
6	The relationship between spectral and wavelet techniques for noise analysis. <i>Electrochimica Acta</i> , 2016, 202, 277-287.	5.2	50
7	An integrated approach in the time, frequency and time-frequency domain for the identification of corrosion using electrochemical noise. <i>Electrochimica Acta</i> , 2016, 222, 627-640.	5.2	49
8	Detection of microbiologically influenced corrosion by electrochemical noise transients. <i>Electrochimica Acta</i> , 2014, 136, 223-232.	5.2	39
9	Application of transient analysis using Hilbert spectra of electrochemical noise to the identification of corrosion inhibition. <i>Electrochimica Acta</i> , 2014, 116, 355-365.	5.2	38
10	The effect of time evolution and timing of the electrochemical data recording of corrosion inhibitor protection of hot-dip galvanized steel. <i>Corrosion Science</i> , 2020, 173, 108780.	6.6	26
11	Interpreting Electrochemical Noise and Monitoring Local Corrosion by Means of Highly Resolved Spatiotemporal Real-Time Optics. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3275-C3283.	2.9	19
12	Evaluation of the formation and protectiveness of a lithium-based conversion layer using electrochemical noise. <i>Electrochimica Acta</i> , 2022, 426, 140733.	5.2	8
13	Wavelet Transform Modulus Maxima and Holder Exponents Combined with Transient Detection for the Differentiation of Pitting Corrosion Using Electrochemical Noise. <i>Corrosion</i> , 2018, 74, 1001-1010.	1.1	6
14	An integral non-intrusive electrochemical and in-situ optical technique for the study of the effectiveness of corrosion inhibition. <i>Electrochimica Acta</i> , 2022, 403, 139619.	5.2	6