Alma Valor

List of Publications by Year
in descending order

35 papers	**1,247** citations	623734 **14** h-index	454955 **30** g-index
35 all docs	**35** docs citations	**35** times ranked	**834** citing authors

#	Article	IF	Citations
1	Stochastic modeling of pitting corrosion: A new model for initiation and growth of multiple corrosion pits. Corrosion Science, 2007, 49, 559-579.	6.6	213
2	Probability distribution of pitting corrosion depth and rate in underground pipelines: A Monte Carlo study. Corrosion Science, 2009, 51, 1925-1934.	6.6	197
3	Predictive Model for Pitting Corrosion in Buried Oil and Gas Pipelines. Corrosion, 2009, 65, 332-342.	1.1	149
4	Markov chain modelling of pitting corrosion in underground pipelines. Corrosion Science, 2009, 51, 2197-2207.	6.6	115
5	Reliability assessment of buried pipelines based on different corrosion rate models. Corrosion Science, 2013, 66, 78-87.	6.6	97
6	Extreme value analysis applied to pitting corrosion experiments in low carbon steel: Comparison of block maxima and peak over threshold approaches. Corrosion Science, 2008, 50, 3193-3204.	6.6	83
7	Markov Chain Models for the Stochastic Modeling of Pitting Corrosion. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	52
8	Stochastic approach to pitting-corrosion-extreme modelling in low-carbon steel. Corrosion Science, 2010, 52, 910-915.	6.6	50
9	Thermal decomposition of the calcium salts of several carboxylic acids. Thermochimica Acta, 2002, 389, 133-139.	2.7	49
10	Modeling localized corrosion of pipeline steels in oilfield produced water environments. Engineering Failure Analysis, 2017, 79, 216-231.	4.0	44
11	Bayesian analysis of external corrosion data of non-piggable underground pipelines. Corrosion Science, 2015, 90, 33-45.	6.6	32
12	**_Technical Note:_** Field Study—Pitting Corrosion of Underground Pipelines Related to Local Soil and Pipe Characteristics. Corrosion, 2010, 66, 016001-016001-5.	1.1	29
13	Statistical Analysis of Pitting Corrosion Field Data and Their Use for Realistic Reliability Estimations in Non-Piggable Pipeline Systems. Corrosion, 2014, 70, 1090-1100.	1.1	19
14	Detection of Counterfeit Tequila by Fluorescence Spectroscopy. Journal of Spectroscopy, 2015, 2015, 1-7.	1.3	15
15	The negative binomial distribution as a model for external corrosion defect counts in buried pipelines. Corrosion Science, 2015, 101, 114-131.	6.6	15
16	Structural and thermal study of calcium undecanoate. Journal of Solid State Chemistry, 2003, 172, 471-479.	2.9	11
17	Microstructural study of high coercivity Sm(Co,Cu)5 alloy. Journal of Magnetism and Magnetic Materials, 1999, 195, 595-600.	2.3	10
18	Synthesis and X-ray diffraction study of calcium salts of some carboxylic acids. Powder Diffraction, 2002, 17, 13-18.	0.2	8

#	Article	IF	Citations
19	***Discussion:***Statistical Characterization of Pitting Corrosion—Part 1: Data Analysis and Part 2: Probabilistic Modeling for Maximum Pit Depth. Corrosion, 2007, 63, 107-113.	1.1	7
20	Diffuse reflectance spectroscopy accurately discriminates early and advanced grades of fatty liver in mice. Journal of Biomedical Optics, 2018, 23, 1.	2.6	7
21	On the nature of the disordered microstructure in Sm(Co,Cu)5 alloys with increasing Cu content. Journal of Alloys and Compounds, 2007, 429, 343-347.	5.5	6
22	Study of Methionine Choline Deficient Diet-Induced Steatosis in Mice Using Endogenous Fluorescence Spectroscopy. Molecules, 2019, 24, 3150.	3.8	6
23	Fiber-optic pulseoximeter for local oxygen saturation determination using a Monte Carlo multi-layer model for calibration. Computer Methods and Programs in Biomedicine, 2020, 187, 105237.	4.7	6
24	Statistical Modeling of Pitting Corrosion in Buried Pipelines Taking Into Account Soil Properties. , 2008, , .		5
25	On the interactions of potassium bromide with alkali fluorides. Journal of Fluorine Chemistry, 2001, 107, 137-139.	1.7	4
26	Spectroscopic and Imaging Characteristics of Pigmented Non-Melanoma Skin Cancer and Melanoma in Patients with Skin Phototypes III and IV. Oncology and Therapy, 2016, 4, 315-331.	2.6	4
27	Fluorescence Spectroscopy as a Tool for the Assessment of Liver Samples with Several Stages of Fibrosis. Photomedicine and Laser Surgery, 2018, 36, 151-161.	2.0	3
28	Multispectral light source for endoscopic procedures. , 2018, , .		3
29	Combined methods of optical spectroscopy and artificial intelligence in the assessment of experimentally induced non-alcoholic fatty liver. Computer Methods and Programs in Biomedicine, 2021, 198, 105777.	4.7	3
30	Determination of the Thermal Diffusivity of Calcium Salts of Saturated Carboxylic Acids. International Journal of Thermophysics, 2004, 25, 511-517.	2.1	2
31	Markov Chain Model Helps Predict Pitting Corrosion Depth and Rate in Underground Pipelines. , 2010, , .		1
32	Fluorescence spectroscopy on paraffin-preserved human liver samples to classify several grades of fibrosis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118737.	3.9	1
33	Design of a uniform irradiance source based on light emitting diodes. Lighting Research and Technology, 2022, 54, 179-189.	2.7	1
34	Optical methods and image processing as a quantitative tool in photodynamic therapy: a proof of concept. , 2019, , .		0
35	Modelado del crecimiento de picaduras en tuberÃas enterradas que transportan hidrocarburos utilizando tÃ©cnicas estadÃsticas. Revista De Metalurgia, 2011, 47, 244-261.	0.5	0