Tim H Muster

List of Publications by Year in descending order

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Version: 2024-02-01

81900 114465 4,183 74 39 63 citations h-index g-index papers 76 76 76 4186 citing authors all docs docs citations times ranked

#	Article	IF	Citations
1	Corrosion of AA2024-T3 Part I: Localised corrosion of isolated IM particles. Corrosion Science, 2011, 53, 17-26.	6.6	312
2	Enhanced efficiency fertilisers: a review of formulation and nutrient release patterns. Journal of the Science of Food and Agriculture, 2015, 95, 1131-1142.	3. 5	290
3	Carbon dots as fluorescent probes for "off–on―detection of Cu2+ and l-cysteine in aqueous solution. Biosensors and Bioelectronics, 2014, 51, 330-335.	10.1	278
4	Designing green, self-healing coatings for metal protection. NPG Asia Materials, 2010, 2, 143-151.	7.9	190
5	Stable pit formation on AA2024-T3 in a NaCl environment. Corrosion Science, 2010, 52, 90-103.	6.6	181
6	How complex is the microstructure of AA2024-T3?. Corrosion Science, 2009, 51, 1565-1568.	6.6	170
7	Corrosion of AA2024-T3 Part II: Co-operative corrosion. Corrosion Science, 2011, 53, 27-39.	6.6	169
8	The effect of inhibitor structure on the corrosion of AA2024 and AA7075. Corrosion Science, 2011, 53, 2184-2190.	6.6	119
9	Corrosion of AA2024-T3 Part III: Propagation. Corrosion Science, 2011, 53, 40-50.	6.6	111
10	Simulation of galvanic corrosion of magnesium coupled to a steel fastener in NaCl solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 468-474.	1.5	106
11	Anaerobic digestion/co-digestion kinetic potentials of different agro-industrial wastes: A comparative batch study for C/N optimisation. Waste Management, 2018, 71, 663-674.	7.4	106
12	A review of high throughput and combinatorial electrochemistry. Electrochimica Acta, 2011, 56, 9679-9699.	5.2	102
13	The protective nature of passivation films on zinc: surface charge. Corrosion Science, 2004, 46, 2319-2335.	6.6	100
14	A rapid screening multi-electrode method for the evaluation of corrosion inhibitors. Electrochimica Acta, 2009, 54, 3402-3411.	5.2	97
15	Water adsorption kinetics and contact angles of silica particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 176, 253-266.	4.7	88
16	The characterisation and performance of Ce(dbp)3-inhibited epoxy coatings. Progress in Organic Coatings, 2011, 70, 91-101.	3.9	77
17	The influence of pH on corrosion inhibitor selection for 2024-T3 aluminium alloy assessed by high-throughput multielectrode and potentiodynamic testing. Electrochimica Acta, 2010, 55, 2457-2465.	5.2	73
18	Towards effective phosphorus recycling from wastewater: Quantity and quality. Chemosphere, 2013, 91, 676-684.	8.2	71

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19	Applying a chemical equilibrium model for optimizing struvite precipitation for ammonium recovery from anaerobic digester effluent. Journal of Cleaner Production, 2017, 147, 297-305.	9.3	65
20	A combinatorial matrix of rare earth chloride mixtures as corrosion inhibitors of AA2024-T3: Optimisation using potentiodynamic polarisation and EIS. Electrochimica Acta, 2012, 67, 95-103.	5.2	64
21	An â€~omics' approach towards the characterisation of laboratory scale anaerobic digesters treating municipal sewage sludge. Water Research, 2016, 88, 346-357.	11.3	63
22	Semi-continuous anaerobic co-digestion of chicken litter with agricultural and food wastes: A case study on the effect of carbon/nitrogen ratio, substrates mixing ratio and organic loading. Bioresource Technology, 2018, 270, 245-254.	9.6	63
23	Applications and Limitations of Scanning Kelvin Probe Force Microscopy for the Surface Analysis of Aluminum Alloys. Journal of the Electrochemical Society, 2006, 153, B474.	2.9	59
24	Multiscale modelling of the corrosion of metals under atmospheric corrosion. Electrochimica Acta, 2011, 56, 1856-1865.	5.2	58
25	Comparability and accuracy of time of wetness sensing methods relevant for atmospheric corrosion. Corrosion Science, 2013, 67, 233-241.	6.6	53
26	The protective nature of passivation films on zinc: wetting and surface energy. Corrosion Science, 2004, 46, 2337-2354.	6.6	52
27	Pitting of zinc: Observations on atmospheric corrosion in tropical countries. Corrosion Science, 2010, 52, 848-858.	6.6	50
28	Face specific surface properties of pharmaceutical crystals. Journal of Pharmaceutical Sciences, 2002, 91, 1432-1444.	3.3	49
29	The atmospheric corrosion of zinc: The effects of salt concentration, droplet size and droplet shape. Electrochimica Acta, 2011, 56, 1866-1873.	5.2	49
30	Photoluminescence enhancement of carbon dots by gold nanoparticles conjugated via PAMAM dendrimers. Nanoscale, 2013, 5, 11200.	5.6	49
31	A Review of Surface Functionalized Amine Terminated Dendrimers for Application in Biological and Molecular Sensing. Supramolecular Chemistry, 2007, 19, 431-445.	1.2	46
32	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces. Journal of the Electrochemical Society, 2010, 157, C213.	2.9	46
33	FIB/SEM study of AA2024 corrosion under a seawater drop: Part I. Corrosion Science, 2011, 53, 1086-1096.	6.6	45
34	Application of time-dependent sessile drop contact angles on compacts to characterise the surface energetics of sulfathiazole crystals. International Journal of Pharmaceutics, 2002, 234, 43-54.	5.2	44
35	High-throughput channel arrays for inhibitor testing: Proof of concept for AA2024-T3. Corrosion Science, 2009, 51, 2279-2290.	6.6	44
36	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces: I. Results from 1-and 2.5-Day Exposures. Journal of the Electrochemical Society, 2008, 155, C244.	2.9	42

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37	Co-operative corrosion phenomena. Corrosion Science, 2010, 52, 665-668.	6.6	42
38	A new high-throughput method for corrosion testing. Corrosion Science, 2012, 58, 327-331.	6.6	42
39	Rheological investigations of sulphide mineral slurries. Minerals Engineering, 1995, 8, 1541-1555.	4.3	41
40	Interactions between zinc sulphide particles under flotation-related conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 106, 203-211.	4.7	37
41	Factors influencing the deposition of Ce-based conversion coatings, part I: The role of Al3+ ions. Surface and Coatings Technology, 2009, 203, 2927-2936.	4.8	34
42	FIB/SEM study of AA2024 corrosion under a seawater drop, part II. Corrosion Science, 2012, 55, 116-125.	6.6	34
43	Omics-based approaches and their use in the assessment of microbial-influenced corrosion of metals. Corrosion Reviews, 2016, 34, 1-15.	2.0	33
44	Vacancy ordering in \hat{I}^3 -Fe2O3 nanocrystals observed by 57Fe NMR. Journal of Magnetism and Magnetic Materials, 2009, 321, 2677-2681.	2.3	32
45	Urban transformation stories for the 21st century: Insights from strategic conversations. Global Environmental Change, 2018, 50, 222-237.	7.8	30
46	Factors influencing the deposition of Ce-based conversion coatings, Part II: The role of localised reactions. Surface and Coatings Technology, 2009, 203, 2937-2945.	4.8	26
47	Microstructure of a Paint Primer - a Data-Constrained Modeling Analysis. Materials Science Forum, 0, 654-656, 1686-1689.	0.3	23
48	Water Adsorption Kinetics and Contact Angles of Pharmaceutical Powders. Journal of Pharmaceutical Sciences, 2005, 94, 861-872.	3.3	21
49	The influence of microstructure on surface phenomena: Rolled zinc. Corrosion Science, 2007, 49, 2037-2058.	6.6	21
50	Electron-Beam-Induced Carbon Contamination on Silicon: Characterization Using Raman Spectroscopy and Atomic Force Microscopy. Microscopy and Microanalysis, 2010, 16, 13-20.	0.4	21
51	Using X-ray tomography, PALS and Raman spectroscopy for characterization of inhibitors in epoxy coatings. Progress in Organic Coatings, 2012, 74, 726-733.	3.9	16
52	Electrochemically-assisted ammonia recovery from wastewater using a floating electrode. Water Science and Technology, 2017, 75, 1804-1811.	2.5	15
53	Application of Victorian brown coal for removal of ammonium and organics from wastewater. Environmental Technology (United Kingdom), 2018, 39, 1041-1051.	2.2	14
54	Nano-scale reservoir computing. Nano Communication Networks, 2013, 4, 189-196.	2.9	13

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55	A High-Throughput Test Methodology for Atmospheric Corrosion Studies. Electrochemical and Solid-State Letters, 2011, 14, C9.	2.2	12
56	Environmental Life Cycle Costing and Sustainability: Insights from Pollution Abatement and Resource Recovery in Wastewater Treatment. Journal of Industrial Ecology, 2018, 22, 1127-1138.	5 . 5	12
57	Non-chromate deoxidation of AA2024-T3 using Fe(III)-HF-HNO3. Surface and Interface Analysis, 2005, 37, 15-23.	1.8	10
58	Investigation into the Influence of Carbon Contamination on the Corrosion Behavior of Aluminum Microelectrodes and AA2024-T3. Journal of the Electrochemical Society, 2013, 160, C119-C127.	2.9	10
59	Attachment Efficiencies of Salt Aerosols onto Infrastructure and Implications for Atmospheric Corrosion. Journal of the Electrochemical Society, 2005, 152, B125.	2.9	8
60	Development of a System for Corrosion Diagnostics and Prognostics. Corrosion Reviews, 2007, 25, 161-178.	2.0	8
61	Development of a sensor-based learning approach to prognostics in intelligent vehicle health monitoring., 2008,,.		8
62	Understanding soil water effects on nitrogen release from controlledâ€release fertilizers. Soil Science Society of America Journal, 2021, 85, 59-72.	2,2	8
63	Multilayered coatings: Tuneable protection for metals. Corrosion Science, 2010, 52, 3847-3850.	6.6	7
64	Data-constrained microstructure modeling with multi-spectrum x-ray CT. Proceedings of SPIE, 2010, , .	0.8	4
65	In-situ synthesis of functional silica nanoparticles for enhancement the corrosion resistance of TBCs. Surface and Coatings Technology, 2013, 225, 106-111.	4.8	4
66	Dynamic contact angle measurement on materials with an unknown wet perimeter. International Journal of Pharmaceutics, 2004, 282, 189-191.	5. 2	3
67	Cu-based Fe phosphate coating and its application in CO2 pipelines. Surface and Coatings Technology, 2013, 228, 167-175.	4.8	3
68	Aging of magnetite nanoparticles in aqueous solutions of differing pH., 2008,,.		2
69	Cu2+, Fe2+ and Fe3+ analysis of bioleaching solutions using chronoamperometry and BDD electrode. Journal of Applied Electrochemistry, 2014, 44, 1135-1143.	2.9	2
70	Embedded magnetic nanoparticle sensors for monitoring primer failure beneath paint. Sensors and Actuators B: Chemical, 2015, 210, 446-452.	7.8	2
71	Particle formation and gelling behaviour of anionic oligoesters in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 228, 181-187.	4.7	1
72	Nano-scale reservoir computing. , 2013, , .		1

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73	Fluorescence Studies of Anthracene Functionalized PAMAM Dendrimers Anchored to Self Assembled Monolayers. , 2006, , .		O
74	Application of a novel sampling bailer device for the analysis of dissolved methane concentrations in municipal wastewater during and following anaerobic treatment. Water Science and Technology, 2016, 73, 2936-2943.	2.5	0