

Tim H Muster

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

4,183
citations

81900

39
h-index

114465

63
g-index

76
all docs

76
docs citations

76
times ranked

4186
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding soil water effects on nitrogen release from controlled-release fertilizers. <i>Soil Science Society of America Journal</i> , 2021, 85, 59-72.	2.2	8
2	Urban transformation stories for the 21st century: Insights from strategic conversations. <i>Global Environmental Change</i> , 2018, 50, 222-237.	7.8	30
3	Application of Victorian brown coal for removal of ammonium and organics from wastewater. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1041-1051.	2.2	14
4	Environmental Life Cycle Costing and Sustainability: Insights from Pollution Abatement and Resource Recovery in Wastewater Treatment. <i>Journal of Industrial Ecology</i> , 2018, 22, 1127-1138.	5.5	12
5	Anaerobic digestion/co-digestion kinetic potentials of different agro-industrial wastes: A comparative batch study for C/N optimisation. <i>Waste Management</i> , 2018, 71, 663-674.	7.4	106
6	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. <i>Bioresource Technology</i> , 2018, 270, 245-254.	9.6	63
7	Applying a chemical equilibrium model for optimizing struvite precipitation for ammonium recovery from anaerobic digester effluent. <i>Journal of Cleaner Production</i> , 2017, 147, 297-305.	9.3	65
8	Electrochemically-assisted ammonia recovery from wastewater using a floating electrode. <i>Water Science and Technology</i> , 2017, 75, 1804-1811.	2.5	15
9	Application of a novel sampling bailer device for the analysis of dissolved methane concentrations in municipal wastewater during and following anaerobic treatment. <i>Water Science and Technology</i> , 2016, 73, 2936-2943.	2.5	0
10	An omics approach towards the characterisation of laboratory scale anaerobic digesters treating municipal sewage sludge. <i>Water Research</i> , 2016, 88, 346-357.	11.3	63
11	Omics-based approaches and their use in the assessment of microbial-influenced corrosion of metals. <i>Corrosion Reviews</i> , 2016, 34, 1-15.	2.0	33
12	Enhanced efficiency fertilisers: a review of formulation and nutrient release patterns. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1131-1142.	3.5	290
13	Embedded magnetic nanoparticle sensors for monitoring primer failure beneath paint. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 446-452.	7.8	2
14	Cu ²⁺ , Fe ²⁺ and Fe ³⁺ analysis of bioleaching solutions using chronoamperometry and BDD electrode. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 1135-1143.	2.9	2
15	Carbon dots as fluorescent probes for detection of Cu ²⁺ and l-cysteine in aqueous solution. <i>Biosensors and Bioelectronics</i> , 2014, 51, 330-335.	10.1	278
16	Cu-based Fe phosphate coating and its application in CO ₂ pipelines. <i>Surface and Coatings Technology</i> , 2013, 228, 167-175.	4.8	3
17	Towards effective phosphorus recycling from wastewater: Quantity and quality. <i>Chemosphere</i> , 2013, 91, 676-684.	8.2	71
18	Nano-scale reservoir computing. <i>Nano Communication Networks</i> , 2013, 4, 189-196.	2.9	13

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19	Photoluminescence enhancement of carbon dots by gold nanoparticles conjugated via PAMAM dendrimers. <i>Nanoscale</i> , 2013, 5, 11200.	5.6	49
20	In-situ synthesis of functional silica nanoparticles for enhancement the corrosion resistance of TBCs. <i>Surface and Coatings Technology</i> , 2013, 225, 106-111.	4.8	4
21	Comparability and accuracy of time of wetness sensing methods relevant for atmospheric corrosion. <i>Corrosion Science</i> , 2013, 67, 233-241.	6.6	53
22	Investigation into the Influence of Carbon Contamination on the Corrosion Behavior of Aluminum Microelectrodes and AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2013, 160, C119-C127.	2.9	10
23	Nano-scale reservoir computing. , 2013, , .		1
24	Using X-ray tomography, PALS and Raman spectroscopy for characterization of inhibitors in epoxy coatings. <i>Progress in Organic Coatings</i> , 2012, 74, 726-733.	3.9	16
25	FIB/SEM study of AA2024 corrosion under a seawater drop, part II. <i>Corrosion Science</i> , 2012, 55, 116-125.	6.6	34
26	A new high-throughput method for corrosion testing. <i>Corrosion Science</i> , 2012, 58, 327-331.	6.6	42
27	A combinatorial matrix of rare earth chloride mixtures as corrosion inhibitors of AA2024-T3: Optimisation using potentiodynamic polarisation and EIS. <i>Electrochimica Acta</i> , 2012, 67, 95-103.	5.2	64
28	Corrosion of AA2024-T3 Part I: Localised corrosion of isolated IM particles. <i>Corrosion Science</i> , 2011, 53, 17-26.	6.6	312
29	Corrosion of AA2024-T3 Part II: Co-operative corrosion. <i>Corrosion Science</i> , 2011, 53, 27-39.	6.6	169
30	Corrosion of AA2024-T3 Part III: Propagation. <i>Corrosion Science</i> , 2011, 53, 40-50.	6.6	111
31	FIB/SEM study of AA2024 corrosion under a seawater drop: Part I. <i>Corrosion Science</i> , 2011, 53, 1086-1096.	6.6	45
32	The effect of inhibitor structure on the corrosion of AA2024 and AA7075. <i>Corrosion Science</i> , 2011, 53, 2184-2190.	6.6	119
33	The characterisation and performance of Ce(dbp) ₃ -inhibited epoxy coatings. <i>Progress in Organic Coatings</i> , 2011, 70, 91-101.	3.9	77
34	A review of high throughput and combinatorial electrochemistry. <i>Electrochimica Acta</i> , 2011, 56, 9679-9699.	5.2	102
35	The atmospheric corrosion of zinc: The effects of salt concentration, droplet size and droplet shape. <i>Electrochimica Acta</i> , 2011, 56, 1866-1873.	5.2	49
36	Multiscale modelling of the corrosion of metals under atmospheric corrosion. <i>Electrochimica Acta</i> , 2011, 56, 1856-1865.	5.2	58

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37	A High-Throughput Test Methodology for Atmospheric Corrosion Studies. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, C9.	2.2	12
38	Electron-Beam-Induced Carbon Contamination on Silicon: Characterization Using Raman Spectroscopy and Atomic Force Microscopy. <i>Microscopy and Microanalysis</i> , 2010, 16, 13-20.	0.4	21
39	The influence of pH on corrosion inhibitor selection for 2024-T3 aluminium alloy assessed by high-throughput multielectrode and potentiodynamic testing. <i>Electrochimica Acta</i> , 2010, 55, 2457-2465.	5.2	73
40	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces. <i>Journal of the Electrochemical Society</i> , 2010, 157, C213.	2.9	46
41	Data-constrained microstructure modeling with multi-spectrum x-ray CT. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
42	Stable pit formation on AA2024-T3 in a NaCl environment. <i>Corrosion Science</i> , 2010, 52, 90-103.	6.6	181
43	Co-operative corrosion phenomena. <i>Corrosion Science</i> , 2010, 52, 665-668.	6.6	42
44	Pitting of zinc: Observations on atmospheric corrosion in tropical countries. <i>Corrosion Science</i> , 2010, 52, 848-858.	6.6	50
45	Multilayered coatings: Tuneable protection for metals. <i>Corrosion Science</i> , 2010, 52, 3847-3850.	6.6	7
46	Designing green, self-healing coatings for metal protection. <i>NPG Asia Materials</i> , 2010, 2, 143-151.	7.9	190
47	Factors influencing the deposition of Ce-based conversion coatings, Part II: The role of localised reactions. <i>Surface and Coatings Technology</i> , 2009, 203, 2937-2945.	4.8	26
48	Factors influencing the deposition of Ce-based conversion coatings, part I: The role of Al ³⁺ ions. <i>Surface and Coatings Technology</i> , 2009, 203, 2927-2936.	4.8	34
49	Vacancy ordering in $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ nanocrystals observed by ^{57}Fe NMR. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2677-2681.	2.3	32
50	A rapid screening multi-electrode method for the evaluation of corrosion inhibitors. <i>Electrochimica Acta</i> , 2009, 54, 3402-3411.	5.2	97
51	How complex is the microstructure of AA2024-T3?. <i>Corrosion Science</i> , 2009, 51, 1565-1568.	6.6	170
52	High-throughput channel arrays for inhibitor testing: Proof of concept for AA2024-T3. <i>Corrosion Science</i> , 2009, 51, 2279-2290.	6.6	44
53	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces: I. Results from 1- and 2.5-Day Exposures. <i>Journal of the Electrochemical Society</i> , 2008, 155, C244.	2.9	42
54	Aging of magnetite nanoparticles in aqueous solutions of differing pH. , 2008, , .		2

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55	Development of a sensor-based learning approach to prognostics in intelligent vehicle health monitoring. , 2008, , .		8
56	A Review of Surface Functionalized Amine Terminated Dendrimers for Application in Biological and Molecular Sensing. Supramolecular Chemistry, 2007, 19, 431-445.	1.2	46
57	Development of a System for Corrosion Diagnostics and Prognostics. Corrosion Reviews, 2007, 25, 161-178.	2.0	8
58	The influence of microstructure on surface phenomena: Rolled zinc. Corrosion Science, 2007, 49, 2037-2058.	6.6	21
59	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
60	Fluorescence Studies of Anthracene Functionalized PAMAM Dendrimers Anchored to Self Assembled Monolayers. , 2006, , .		0
61	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
62	Water Adsorption Kinetics and Contact Angles of Pharmaceutical Powders. Journal of Pharmaceutical Sciences, 2005, 94, 861-872.	3.3	21
63	Non-chromate deoxidation of AA2024-T3 using Fe(III)-HF-HNO ₃ . Surface and Interface Analysis, 2005, 37, 15-23.	1.8	10
64	Attachment Efficiencies of Salt Aerosols onto Infrastructure and Implications for Atmospheric Corrosion. Journal of the Electrochemical Society, 2005, 152, B125.	2.9	8
65	Dynamic contact angle measurement on materials with an unknown wet perimeter. International Journal of Pharmaceutics, 2004, 282, 189-191.	5.2	3
66	The protective nature of passivation films on zinc: wetting and surface energy. Corrosion Science, 2004, 46, 2337-2354.	6.6	52
67	The protective nature of passivation films on zinc: surface charge. Corrosion Science, 2004, 46, 2319-2335.	6.6	100
68	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
69	Face specific surface properties of pharmaceutical crystals. Journal of Pharmaceutical Sciences, 2002, 91, 1432-1444.	3.3	49
70	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
71	Water adsorption kinetics and contact angles of silica particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 176, 253-266.	4.7	88
72	Interactions between zinc sulphide particles under flotation-related conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 106, 203-211.	4.7	37

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73	Rheological investigations of sulphide mineral slurries. Minerals Engineering, 1995, 8, 1541-1555.	4.3	41
74	Microstructure of a Paint Primer - a Data-Constrained Modeling Analysis. Materials Science Forum, 0, 654-656, 1686-1689.	0.3	23