Rolf Gubner

List of Publications by Year
in descending order

46 papers	1,109 citations	331670 21 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	979 citing authors

#	Article	IF	Citations
1	Study of the interaction of sulphate-reducing bacteria exopolymers with iron using X-ray photoelectron spectroscopy and time-of-flight secondary ionisation mass spectrometry. Journal of Microbiological Methods, 1999, 36, 3-10.	1.6	68
2	Adsorption of Corrosion Inhibitor 1-Dodecylpyridinium Chloride on Carbon Steel Studied by in Situ AFM and Electrochemical Methods. Industrial & Engineering Chemistry Research, 2014, 53, 5858-5865.	3.7	60
3	Effect of oxygen and biofilms on crevice corrosion of UNS S31803 and UNS N08825 in natural seawater. Corrosion Science, 2013, 67, 242-255.	6.6	56
4	The Initial Steps of Atmospheric Corrosion on Magnesium Alloy AZ91D. Journal of the Electrochemical Society, 2007, 154, C684.	2.9	55
5	Inhibition effects of thermally degraded MEG on hydrate formation for gas systems. Journal of Petroleum Science and Engineering, 2015, 135, 608-617.	4.2	54
6	The effect of extracellular polymeric substances on the attachment ofPseudomonasNCIMB 2021 to AISI 304 and 316 stainless steel. Biofouling, 2000, 15, 25-36.	2.2	52
7	Evaluation of corrosion inhibition at sand-deposited carbon steel in CO2-saturated brine. Corrosion Science, 2013, 72, 108-117.	6.6	52
8	Characterization of Phases in Duplex Stainless Steel by Magnetic Force Microscopy/Scanning Kelvin Probe Force Microscopy. Electrochemical and Solid-State Letters, 2008, 11, C41.	2.2	51
9	Simultaneous Hydrate and Corrosion Inhibition with Modified Poly(vinyl caprolactam) Polymers. Energy & Fuels, 2017, 31, 6724-6731.	5.1	46
10	Direct involvement of an extracellular complex produced by a marine sulfateâ€reducing bacterium in deterioration of steel. Geomicrobiology Journal, 1998, 15, 121-134.	2.0	43
11	Recovery of mono-ethylene glycol by distillation and the impact of dissolved salts evaluated through simulation of field data. Journal of Natural Gas Science and Engineering, 2017, 44, 214-232.	4.4	37
12	Short term corrosion monitoring of carbon steel by bio-competitive exclusion of thermophilic sulphate reducing bacteria and nitrate reducing bacteria. Electrochimica Acta, 2012, 77, 348-362.	5.2	35
13	Filtrationâ€“UV irradiation as an option for mitigating the risk of microbiologically influenced corrosion of subsea construction alloys in seawater. Corrosion Science, 2014, 79, 89-99.	6.6	35
14	Characterisation of conditioning layers formed by exopolymeric substances ofPseudomonasNCIMB 2021 on surfaces of AISI 316 stainless steel. Biofouling, 2000, 16, 93-104.	2.2	33
15	Influence of magnetic fields on calcium carbonate scaling in aqueous solutions at 150 Â°C and 1 bar. Journal of Colloid and Interface Science, 2018, 509, 472-484.	9.4	32
16	The effect of Pseudomonas NCIMB 2021 biofilm on AISI 316 stainless steel. Biofouling, 2000, 15, 3-12.	2.2	30
17	Analytical Techniques for Analyzing Thermally Degraded Monoethylene Glycol with Methyl Diethanolamine and Film Formation Corrosion Inhibitor. Energy & Fuels, 2016, 30, 10937-10949.	5.1	27
18	Removal of monoethylene glycol from wastewater by using Zr-metal organic frameworks. Journal of Colloid and Interface Science, 2018, 523, 75-85.	9.4	26

#	Article	IF	Citations
19	The effect of regenerated MEG on hydrate inhibition performance over multiple regeneration cycles. Fuel, 2018, 222, 638-647.	6.4	26
20	Systematic study of the corrosion properties of selected high-resistance alloys in natural seawater. Corrosion Science, 2012, 64, 8-16.	6.6	24
21	Inhibition of Under-Deposit Corrosion of Carbon Steel by Thiobenzamide. Journal of the Electrochemical Society, 2013, 160, C432-C440.	2.9	24
22	Condensation corrosion of carbon steel at low to moderate surface temperature and iron carbonate precipitation kinetics. Corrosion Science, 2016, 111, 139-150.	6.6	21
23	The influence of magnetic fields on calcium carbonate scale formation within monoethylene glycol solutions at regeneration conditions. Journal of Petroleum Science and Engineering, 2019, 173, 158-169.	4.2	21
24	Effects of Thermally Degraded Monoethylene Glycol with Methyl Diethanolamine and Film-Forming Corrosion Inhibitor on Gas Hydrate Kinetics. Energy & Fuels, 2017, 31, 6397-6412.	5.1	19
25	Influence of Regenerated Monoethylene Glycol on Natural Gas Hydrate Formation. Energy & Fuels, 2017, 31, 12914-12931.	5.1	17
26	Geobacter species enhances pit depth on 304L stainless steel in a medium lacking with electron donor. Electrochemistry Communications, 2009, 11, 1476-1481.	4.7	15
27	Evaluating chemical-scale-inhibitor performance in external magnetic fields using a dynamic scale loop. Journal of Petroleum Science and Engineering, 2019, 179, 1063-1077.	4.2	13
28	Electrochemical investigation into the dynamic mechanism of CO2 corrosion product film formation on the carbon steel under the water-condensation condition. Electrochimica Acta, 2021, 390, 138880.	5.2	13
29	Experimental Vaporâ€“Liquid Equilibrium Data for Binary Mixtures of Methyldiethanolamine in Water and Ethylene Glycol under Vacuum. Journal of Chemical & Engineering Data, 2018, 63, 1752-1760.	1.9	12
30	Performance of erythorbic acid as an oxygen scavenger in thermally aged lean MEG. Journal of Petroleum Science and Engineering, 2018, 170, 911-921.	4.2	12
31	Operation of a MEG pilot regeneration system for organic acid and alkalinity removal during MDEA to FFCI switchover. Journal of Petroleum Science and Engineering, 2018, 169, 1-14.	4.2	11
32	Acid Dissociation Constant (pK_a) of Common Monoethylene Glycol (MEG) Regeneration Organic Acids and Methyldiethanolamine at Varying MEG Concentration, Temperature, and Ionic Strength. Journal of Chemical & Engineering Data, 2018, 63, 2904-2913.	1.9	11
33	Corrosion of carbon steel under condensing water and monoethylene glycol. Corrosion Science, 2018, 143, 10-22.	6.6	11
34	Measurement of mono ethylene glycol volume fraction at varying ionic strengths and temperatures. Journal of Natural Gas Science and Engineering, 2018, 54, 320-327.	4.4	10
35	Hydrate Phase Equilibria for Methyldiethanolamine and Empirical Modeling for Prediction. Journal of Chemical & Engineering Data, 2018, 63, 3559-3565.	1.9	10
36	Effect of wettability on particle settlement behavior within Mono-Ethylene Glycol regeneration pre-treatment systems. Journal of Petroleum Science and Engineering, 2019, 179, 831-840.	4.2	10

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37	Synchrotron infrared microspectroscopy study of the orientation of an organic surfactant on a microscopically rough steel surface. Vibrational Spectroscopy, 2013, 68, 204-211.	2.2	9
38	Study of the Top-of-the-Line Corrosion Using a Novel Electrochemical Probe. Corrosion, 2018, 74, 588-598.	1.1	7
39	Removal of Organic Acids during Monoethylene Glycol Distillation and Reclamation To Minimize Long-Term Accumulation. Industrial & Engineering Chemistry Research, 2019, 58, 6730-6739.	3.7	6
40	Microbial Corrosion Resistance of Stainless Steels for Marine Energy Installations. Advanced Materials Research, 0, 347-353, 3591-3596.	0.3	5
41	The Effect of Monoethylene Glycol on Calcium Carbonate Solubility at High Temperatures. Industrial & Engineering Chemistry Research, 2018, 57, 15909-15915.	3.7	5
42	Effect of Pretreatment Process on Scale Formation in the Re-Boiler Section of Monoethylene Glycol Regeneration Plant. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012106.	0.6	2
43	Synchrotron far-infrared spectroscopy of corroded steel surfaces using a variable angle of incidence. Journal of Synchrotron Radiation, 2014, 21, 580-585.	2.4	1
44	Corrosion of Carbon Steel during High Temperature Regeneration of Monoethylene Glycol in the Presence of Methyldiethanolamine. Industrial & Engineering Chemistry Research, 2019, 58, 14814-14822.	3.7	1
45	Performance of erythorbic acid as an oxygen scavenger in salted fresh and degraded monoethylene glycol under a magnetic memory effect. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2364.	1.5	1
46	Crevice Corrosion Studies on Corrosion Resistant Alloys in Stagnant Natural Seawater. Advanced Materials Research, 2012, 610-613, 276-279.	0.3	0