

# Metwally Abdallah

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

3,239  
citations

29  
h-index

54  
g-index

107  
ext. papers

3,705  
ext. citations

2.8  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
99	Natural parsley oil as a green and safe inhibitor for corrosion of X80 carbon steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> solution: a chemical, electrochemical, DFT and MC simulation approach.. <i>RSC Advances</i> , <b>2022</b> , 12, 2959-2971	3.7	0
98	Insight of corrosion mitigation performance of SABIC iron in 0.5M HCl solution by tryptophan and histidine: Experimental and computational approaches. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 12782-12797	6.7	1
97	Bisquinoline analogs as corrosion inhibitors for carbon steel in acidic electrolyte: Experimental, DFT, and molecular dynamics simulation approaches. <i>Journal of Molecular Structure</i> , <b>2022</b> , 133389	3.4	0
96	Synthesis of Nonionic Surfactants Containing Five Membered Ring: Application as Corrosion Inhibitor of Carbon Steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> Solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 389-397	0.9	6
95	Mechanistic and thermodynamic aspects of oxidative removal of flucloxacillin by different oxidants in an acidic medium. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 115160	6	2
94	Enhancing the anticorrosion performance of mild steel in sulfuric acid using synthetic non-ionic surfactants: practical and theoretical studies. <i>Green Chemistry Letters and Reviews</i> , <b>2021</b> , 14, 382-394	4.7	2
93	Anticorrosion and adsorption performance of expired antibacterial drugs on Sabic iron corrosion in HCl solution: Chemical, electrochemical and theoretical approach. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 330, 115702	6	19
92	Performance of unprecedented synthesized biosurfactants as green inhibitors for the corrosion of mild steel-37-2 in neutral solutions: a mechanistic approach. <i>Green Chemistry Letters and Reviews</i> , <b>2021</b> , 14, 488-499	4.7	7
91	Natural nutmeg oil as a green corrosion inhibitor for carbon steel in 1.0M HCl solution: Chemical, electrochemical, and computational methods. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 323, 115036	6	42
90	Enhancing the inhibition and adsorption performance of SABIC iron corrosion in sulfuric acid by expired vitamins. Experimental and computational approach.. <i>RSC Advances</i> , <b>2021</b> , 11, 17092-17107	3.7	10
89	Expired azithromycin and roxithromycin drugs as environmentally friendly inhibitors for mild steel corrosion in H <sub>2</sub> SO <sub>4</sub> solutions. <i>Green Chemistry Letters and Reviews</i> , <b>2021</b> , 14, 509-518	4.7	3
88	Synthesis and Estimation of Some Surface-Active Compounds Derived from Fused Pyridine as Corrosion Inhibitors for Aluminum in Hydrochloric Acid Solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 811-819	0.9	3
87	Oxidative degradation of neomycin and streptomycin by cerium(IV) in sulphuric and perchloric acid solutions. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 312, 113439	6	7
86	Maltodextrin and Chitosan Polymers as Inhibitors for the Corrosion of Carbon Steel in 1.0 M Hydrochloric Acid. <i>International Journal of Electrochemical Science</i> , <b>2020</b> , 5650-5663	2.2	23
85	Corrosion Inhibition and Adsorption Properties of Some Heterocyclic Derivatives on C-Steel Surface in HCl. <i>Journal of Bio- and Tribo-Corrosion</i> , <b>2020</b> , 6, 1	2.9	10
84	Propoxylated Fatty Esters as Safe Inhibitors for Corrosion of Zinc in Hydrochloric Acid. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 225-232	0.9	15
83	Oxidative degradation of some antibiotics by permanganate ion in alkaline medium: A kinetic and mechanistic approach. <i>Tropical Journal of Pharmaceutical Research</i> , <b>2020</b> , 19, 1999-2007	0.8	5

82	Corrosion inhibition of aluminum in 1.0M HCl solution by some nonionic surfactant compounds containing five membered heterocyclic moiety. <i>Chemical Data Collections</i> , <b>2020</b> , 28, 100407	2.1	16
81	Sildenafil drug as a safe anticorrosion for 6063 aluminum alloy in acidic and alkaline solutions: Theoretical and experimental studies. <i>Egyptian Journal of Petroleum</i> , <b>2020</b> , 29, 211-218	3-4	7
80	Expired amoxicillin and cefuroxime drugs as efficient anticorrosives for Sabic iron in 1.0 M hydrochloric acid solution. <i>Chemical Engineering Communications</i> , <b>2020</b> , 1-28	2.2	1
79	The Effect of Expired Acyclovir and Omeprazole Drugs on the Inhibition of Sabic Iron Corrosion in HCl Solution. <i>International Journal of Electrochemical Science</i> , <b>2020</b> , 4739-4753	2.2	19
78	Corrosion Inhibition Effect of Expired Ampicillin and Flucloxacillin Drugs for Mild Steel in Aqueous Acidic Medium. <i>International Journal of Electrochemical Science</i> , <b>2020</b> , 3283-3297	2.2	38
77	Degradation of Ampicillin and Flucloxacillin Antibiotics via Oxidation by Alkaline Hexacyanoferrate(III): Kinetics and Mechanistic Aspects. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 16217-16224	3.9	6
76	Estimation of Water-Soluble Polymers (Ploxamer and Pectin) as Corrosion Inhibitors for Carbon Steel in Acidic Medium. <i>International Journal of Electrochemical Science</i> , <b>2020</b> , 8129-8144	2.2	17
75	Corrosion Inhibition of Sabic Iron in Different Media Using Synthesized Sodium N-dodecyl Arginine Surfactant. <i>International Journal of Electrochemical Science</i> , <b>2019</b> , 2063-2084	2.2	17
74	Electrochemical and theoretical investigation for some pyrazolone derivatives as inhibitors for the corrosion of C-steel in 0.5 M hydrochloric acid. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 288, 110994	6	50
73	Corrosion Inhibition of Aluminum using Nonionic Surfactant Compounds with a Six Membered Heterocyclic Ring in 1.0M HCl Solution. <i>International Journal of Electrochemical Science</i> , <b>2019</b> , 3509-3523 <sup>2.2</sup>	2.2	15
72	Polarographic Performance of Some Azo Derivatives Derived from 2-amino-4-hydroxy Pyridine and Its Inhibitory Effect on C-steel Corrosion in Hydrochloric acid. <i>Oriental Journal of Chemistry</i> , <b>2019</b> , 35, 98-109	0.8	6
71	Corrosion Inhibition of Two Aluminum Silicon Alloys in 0.5 M HCl Solution by Some Azole Derivatives Using Electrochemical Techniques. <i>Surface Engineering and Applied Electrochemistry</i> , <b>2019</b> , 55, 172-182	0.8	5
70	Performance of tramadol drug as a safe inhibitor for aluminum corrosion in 1.0 M HCl solution and understanding mechanism of inhibition using DFT. <i>Egyptian Journal of Petroleum</i> , <b>2019</b> , 28, 173-181	3-4	31
69	Competent inhibitor for the corrosion of zinc in hydrochloric acid based on 2,6-bis-[1-(2-phenylhydrazono)ethyl]pyridine. <i>Chemical Engineering Communications</i> , <b>2019</b> , 206, 137-148 <sup>2.2</sup>	2.2	20
68	The polarographic and corrosion inhibition performance of some Schiff base compounds derived from 2-amino-3-hydroxypyridine in aqueous media. <i>Egyptian Journal of Petroleum</i> , <b>2019</b> , 28, 393-399	3-4	15
67	Ketamine Drug as an Inhibitor for the Corrosion of 316 Stainless Steel in 2M HCl Solution. <i>International Journal of Electrochemical Science</i> , <b>2019</b> , 10227-10247	2.2	18
66	Some natural aqueous extracts of plants as green inhibitor for carbon steel corrosion in 0.5 M sulfuric acid. <i>Green Chemistry Letters and Reviews</i> , <b>2018</b> , 11, 189-196	4-7	48
65	Corrosion Inhibition of Carbon Steel in 1 M Hydrochloric Acid using Some Pyrazolo[3,4-d]Pyrimidone Derivatives. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 113-121	0.9	29

64	Thermodynamic, kinetic and mechanistic approach to the corrosion inhibition of carbon steel by new synthesized amino acids-based surfactants as green inhibitors in neutral and alkaline aqueous media. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 265, 276-291	6	61
63	Adsorption and inhibition performance of the novel cationic Gemini surfactant as a safe corrosion inhibitor for carbon steel in hydrochloric acid. <i>Green Chemistry Letters and Reviews</i> , <b>2018</b> , 11, 457-468	4-7	39
62	Inhibiting Properties of Some Heterocyclic Amide Derivatives as Potential Nontoxic Corrosion Inhibitors for Carbon Steel in 1.0 M Sulfuric Acid. <i>Surface Engineering and Applied Electrochemistry</i> , <b>2018</b> , 54, 599-606	0.8	17
61	Electrochemical and Theoretical Investigation for the Protection of Aluminum Corrosion in Hydrochloric Acid using Some Azole Derivatives. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 1204-1212	0.9	5
60	New Synthesized Amino Acids-based Surfactants as Efficient Inhibitors for Corrosion of Mild Steel in Hydrochloric Acid Medium: Kinetics and Thermodynamic Approach. <i>International Journal of Electrochemical Science</i> , <b>2018</b> , 4575-4600	2.2	29
59	Corrosion Inhibition Performance of a Novel Cationic Surfactant for protection of Carbon Steel Pipeline in Acidic Media. <i>International Journal of Electrochemical Science</i> , <b>2018</b> , 6824-6842	2.2	23
58	Experimental and Theoretical Investigation by DFT on the Some Azole Antifungal Drugs as Green Corrosion Inhibitors for Aluminum in 1.0M HCl. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 503-512	0.9	15
57	Corrosion Performance of Stainless Steel and Nickel Alloys in Aqueous Sodium Hydroxide as Revealed from Cyclic Voltammetry and Potentiodynamic Anodic Polarization. <i>Oriental Journal of Chemistry</i> , <b>2017</b> , 33, 2875-2883	0.8	5
56	Corrosion Inhibition of Stainless Steel Type 316 L in 1.0 M HCl Solution Using 1,3-Thiazolidin-5-one Derivatives. <i>International Journal of Electrochemical Science</i> , <b>2017</b> , 4543-4562	2.2	26
55	Corrosion inhibition of aluminum in hydrochloric acid by pyrazinamide derivatives. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 1143-1150	6	36
54	Experimental and theoretical approach studies for melatonin drug as safely corrosion inhibitors for carbon steel using DFT. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 222, 1157-1163	6	50
53	Gelatin as corrosion inhibitor for aluminum and aluminum silicon alloys in sodium hydroxide solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2016</b> , 52, 140-148	0.9	18
52	Inhibition properties and adsorption behavior of 5-arylazothiazole derivatives on 1018 carbon steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 216, 590-597	6	50
51	Animal glue as green inhibitor for corrosion of aluminum and aluminum-silicon alloys in sodium hydroxide solutions. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 755-761	6	32
50	Adsorption and inhibition effect of novel cationic surfactant for pipelines carbon steel in acidic solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2016</b> , 52, 721-730	0.9	36
49	Synthesis, Surface Properties, and Inhibiting Action of Novel Nonionic Surfactants on Carbon Steel Corrosion in 1 M Hydrochloric Acid Solution. <i>Chemical Engineering Communications</i> , <b>2015</b> , 151015052853008	2,2	2
48	Corrosion inhibition of stainless steel type 316L in hydrochloric acid solution using p-aminoazobenzene derivatives. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 473-480	0.9	8
47	Breakdown of passivity of nickel electrode in sulfuric acid and its inhibition by pyridinone derivatives using the galvanostatic polarization technique. <i>International Journal of Corrosion and Scale Inhibition</i> , <b>2015</b> , 4, 338-352	2.2	2

46	Influence of N-thiazolyl-2-cyanoacetamide derivatives on the corrosion of aluminum in 0.01 M sodium hydroxide. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2014</b> , 50, 659-666	0.9	24
45	Cephalosporin antibiotics as new corrosion inhibitors for nickel in HCl solution. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 1249-1266	2.8	13
44	Three novel di-quaternary ammonium salts as corrosion inhibitors for API X65 steel pipeline in acidic solution. Part I: Experimental results. <i>Corrosion Science</i> , <b>2014</b> , 81, 54-64	6.8	146
43	Synthesis of some aromatic nitro compounds and its applications as inhibitors for corrosion of carbon steel in hydrochloric acid solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2013</b> , 49, 485-491	0.9	24
42	The Effect of Non Ionic Surfactants Containing Triazole, Thiadiazole and Oxadiazole as Inhibitors of the Corrosion of Carbon Steel in 1M Hydrochloric Acid. <i>Journal of Surfactants and Detergents</i> , <b>2013</b> , 16, 937-946	1.9	29
41	Some Schiff base compounds as inhibitors for corrosion of carbon steel in acidic media. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2012</b> , 48, 477-486	0.9	16
40	Natural oils as corrosion inhibitors for stainless steel in sodium hydroxide solutions. <i>Chemistry and Technology of Fuels and Oils</i> , <b>2012</b> , 48, 234-245	0.4	17
39	Corrosion inhibition of aluminum in 1M H <sub>3</sub> PO <sub>4</sub> solutions by ethanolamines. <i>Arabian Journal of Chemistry</i> , <b>2012</b> , 5, 297-307	5.9	29
38	Corrosion Inhibition of Copper in Nitric Acid Solution Using Some Secondary Amines. <i>Corrosion</i> , <b>2012</b> , 68, 610-619	1.8	4
37	Sildenafil citrate (Viagra) as a corrosion inhibitor for carbon steel in hydrochloric acid solutions. <i>Monatshefte für Chemie</i> , <b>2012</b> , 143, 1379-1387	1.4	34
36	N,N-di(polyoxyethylene) dodecylaniline as a corrosion inhibitor for steel in hydrochloric acid solutions. <i>Chemistry and Technology of Fuels and Oils</i> , <b>2012</b> , 47, 453-463	0.4	9
35	Inhibition of Zinc Corrosion by Some Benzaldehyde Derivatives in HCl Solution. <i>Journal of Materials Engineering and Performance</i> , <b>2012</b> , 21, 995-1002	1.6	7
34	Antihypertensive drugs as an inhibitors for corrosion of aluminum and aluminum silicon alloys in aqueous solutions. <i>Arabian Journal of Chemistry</i> , <b>2012</b> , 5, 225-234	5.9	38
33	Azole derivatives as inhibitors for the corrosion of irradiated and non-irradiated carbon steel in HNO <sub>3</sub> solution. <i>Anti-Corrosion Methods and Materials</i> , <b>2011</b> , 58, 31-38	0.8	7
32	N-3-hydroxyl-2-naphthoyl hydrazone derivatives as inhibitors for corrosion of carbon steel in H <sub>2</sub> SO <sub>4</sub> acid solution. <i>Anti-Corrosion Methods and Materials</i> , <b>2011</b> , 58, 63-69	0.8	12
31	Effect of some amidopoly ethylamine on corrosion of zinc electrode used in zinc-manganese batteries. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2011</b> , 47, 246-252	0.9	5
30	Phenazone and aminophenazone as corrosion inhibitors for aluminum in HCl solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2011</b> , 47, 803-812	0.9	14
29	Rosemary oil as a corrosion inhibitor for carbon steel in 0.5 M sulfuric acid solution. <i>Chemistry and Technology of Fuels and Oils</i> , <b>2011</b> , 47, 66-74	0.4	7

28	Tetrahydrocarbazole Derivatives as Corrosion Inhibitors for Zinc in HCl Solution. <i>Modern Applied Science</i> , <b>2010</b> , 4,	1.3	4
27	Some quinazoline derivatives as corrosion inhibitors for copper in HNO <sub>3</sub> solution. <i>Desalination and Water Treatment</i> , <b>2010</b> , 22, 340-348		4
26	Novel cationic gemini surfactants as corrosion inhibitors for carbon steel pipelines. <i>Corrosion Science</i> , <b>2010</b> , 52, 2897-2904	6.8	122
25	INHIBITION OF ACIDIC AND PITTING CORROSION OF NICKEL USING NATURAL BLACK CUMIN OIL. <i>Chemical Engineering Communications</i> , <b>2010</b> , 197, 1446-1454	2.2	23
24	INHIBITION OF CARBON STEEL CORROSION BY SOME CYANOACETOHYDRAZIDE DERIVATIVES IN HCL SOLUTION. <i>Chemical Engineering Communications</i> , <b>2010</b> , 197, 1091-1108	2.2	20
23	Ni <sup>2+</sup> cation and imidazole as corrosion inhibitors for carbon steel in sulfuric acid solutions. <i>Monatshefte Für Chemie</i> , <b>2010</b> , 141, 1287-1295	1.4	15
22	Use of some natural oils as crude pipeline corrosion inhibitors in sodium hydroxide solutions. <i>Chemistry and Technology of Fuels and Oils</i> , <b>2010</b> , 46, 354-362	0.4	3
21	Some crown ethers as inhibitors for corrosion of stainless steel type 430 in aqueous solutions. <i>Desalination</i> , <b>2010</b> , 250, 538-543	10.3	23
20	INHIBITION OF THE CORROSION OF NICKEL AND ITS ALLOYS BY NATURAL CLOVE OIL. <i>Chemical Engineering Communications</i> , <b>2009</b> , 196, 1406-1416	2.2	19
19	Inhibiting effect of Ni <sup>2+</sup> cation+3-methyl pyrazolone as a corrosion inhibitor for carbon steel in sulfuric acid solution. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 118, 111-117	4.4	31
18	Amidopoly Ethylamines as Corrosion Inhibitors for Zinc Dissolution in Different Acidic Electrolytes. <i>Portugaliae Electrochimica Acta</i> , <b>2009</b> , 27, 615-630	2.4	9
17	Natural Occurring Substances as Corrosion Inhibitors for Tin in Sodium Bicarbonate Solutions. <i>Journal of the Korean Chemical Society</i> , <b>2009</b> , 53, 485-490		3
16	Some organic and inorganic compounds as inhibitors for carbon steel corrosion in 3.5 percent NaCl solution. <i>Anti-Corrosion Methods and Materials</i> , <b>2006</b> , 53, 118-123	0.8	23
15	Aminopyrimidine derivatives as inhibitors for corrosion of 1018 carbon steel in nitric acid solution. <i>Corrosion Science</i> , <b>2006</b> , 48, 1639-1654	6.8	104
14	Corrosion inhibition of some metals using lawsonia extract. <i>Corrosion Science</i> , <b>2005</b> , 47, 385-395	6.8	290
13	Inhibition of acidic corrosion of carbon steel by some mono and bis azo dyes based on 1,5 dihydroxynaphthalene. <i>Annali Di Chimica</i> , <b>2004</b> , 94, 601-11		13
12	Antibacterial drugs as corrosion inhibitors for corrosion of aluminium in hydrochloric solution. <i>Corrosion Science</i> , <b>2004</b> , 46, 1981-1996	6.8	239
11	Guar Gum as Corrosion Inhibitor for Carbon Steel in Sulfuric Acid Solutions. <i>Portugaliae Electrochimica Acta</i> , <b>2004</b> , 22, 161-175	2.4	137



10	Corrosion behaviour of 304 stainless steel in sulphuric acid solutions and its inhibition by some substituted pyrazolones. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 82, 786-792	4.4	87
9	Ethoxylated fatty alcohols as corrosion inhibitors for dissolution of zinc in hydrochloric acid. <i>Corrosion Science</i> , <b>2003</b> , 45, 2705-2716	6.8	98
8	Corrosion Inhibition of Nickel in Sulfuric Acid Using Tween Surfactants. <i>Portugaliae Electrochimica Acta</i> , <b>2003</b> , 21, 315-326	2.4	29
7	Rhodanine azosulpha drugs as corrosion inhibitors for corrosion of 304 stainless steel in hydrochloric acid solution. <i>Corrosion Science</i> , <b>2002</b> , 44, 717-728	6.8	296
6	Cu <sup>2+</sup> cation+3,5-dimethyl pyrazole mixture as a corrosion inhibitor for carbon steel in sulfuric acid solution. <i>Materials Chemistry and Physics</i> , <b>2001</b> , 71, 291-298	4.4	77
5	Natural honey as corrosion inhibitor for metals and alloys. II. C-steel in high saline water. <i>Corrosion Science</i> , <b>2000</b> , 42, 731-738	6.8	131
4	Cyclic voltammograms of iron and C-steels in oxalic acid solutions and investigation of the effect of phenyl phthalimide as corrosion inhibitors. <i>Monatshefte Für Chemie</i> , <b>1995</b> , 126, 519-527	1.4	12
3	Inhibition Potentials and Adsorption Performance of Two Sulfonyleurea Antibiotic Expired Drugs on the Corrosion of Mild Steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> . <i>International Journal of Electrochemical Science</i> , 10289-10303 <sup>2.2</sup>		9
2	Enhancement of adsorption and anticorrosion performance of two polymeric compounds for the corrosion of SABIC carbon steel in hydrochloric acid. <i>Journal of Adhesion Science and Technology</i> , 1-19	2	10
1	Inhibitive performance of dapoxetine drug for corrosion of aluminum alloy (AA6063) in acidic and alkaline solutions: experimental and theoretical studies using Materials Studio v7.0221, 270-280		4