

Abd El Aziz El Sayed Fouada

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3946602/publications.pdf>

Version: 2024-02-01

217
papers

5,449
citations

81900

39
h-index

123424

61
g-index

220
all docs

220
docs citations

220
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	Some pyridine derivatives as corrosion inhibitors for carbon steel in acidic medium. <i>Materials Chemistry and Physics</i> , 2005, 93, 84-90.	4.0	275
2	Pyrazolone derivatives as corrosion inhibitors for C-steel in hydrochloric acid solution. <i>Desalination</i> , 2006, 201, 1-13.	8.2	185
3	Inhibition effect of 4-phenylthiazole derivatives on corrosion of 304L stainless steel in HCl solution. <i>Corrosion Science</i> , 2009, 51, 868-875.	6.6	183
4	Synthesis, electrochemical and quantum chemical studies of some prepared surfactants based on azodye and Schiff base as corrosion inhibitors for steel in acid medium. <i>Corrosion Science</i> , 2017, 128, 54-72.	6.6	167
5	Critical micelle concentrations for alkyltrimethylammonium bromides in water from 25 to 160°C. <i>Journal of Solution Chemistry</i> , 1984, 13, 87-101.	1.2	144
6	The role of some thiosemicarbazide derivatives in the corrosion inhibition of aluminium in hydrochloric acid. <i>Corrosion Science</i> , 1986, 26, 719-726.	6.6	144
7	Aminopyrimidine derivatives as inhibitors for corrosion of 1018 carbon steel in nitric acid solution. <i>Corrosion Science</i> , 2006, 48, 1639-1654.	6.6	140
8	Synergistic influence of iodide ions on the inhibition of corrosion of C-steel in sulphuric acid by some aliphatic amines. <i>Corrosion Science</i> , 2005, 47, 1988-2004.	6.6	124
9	Electroanalytical, quantum and surface characterization studies on imidazole derivatives as corrosion inhibitors for aluminum in acidic media. <i>Journal of Molecular Liquids</i> , 2015, 209, 480-486.	4.9	90
10	Some thiazole derivatives as corrosion inhibitors for carbon steel in acidic medium. <i>Desalination</i> , 2008, 229, 279-293.	8.2	80
11	Inhibition properties and adsorption behavior of 5-arylthiazole derivatives on 1018 carbon steel in 0.5 M H ₂ SO ₄ solution. <i>Journal of Molecular Liquids</i> , 2016, 216, 590-597.	4.9	74
12	Role of some thiadiazole derivatives as inhibitors for the corrosion of C-steel in 1 M H ₂ SO ₄ . <i>Journal of Applied Electrochemistry</i> , 2009, 39, 391-402.	2.9	73
13	Antibacterial drugs as inhibitors for the corrosion of stainless steel type 304 in HCl solution. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 163-173.	2.9	73
14	Evaluation of 4-amidinophenyl-2,2'-bithiophene and its aza-analogue as novel corrosion inhibitors for CS in acidic media: Experimental and theoretical study. <i>Journal of Molecular Liquids</i> , 2017, 240, 372-388.	4.9	68
15	Alcamines as corrosion inhibitors for reinforced steel and their effect on cement based materials and mortar performance. <i>RSC Advances</i> , 2015, 5, 36957-36968.	3.6	63
16	Experimental and theoretical studies on corrosion inhibition of 4-amidinophenyl-2,2'-bifuran and its analogues in acidic media. <i>RSC Advances</i> , 2017, 7, 46414-46430.	3.6	59
17	Novel pyrimidine-bichalcophene derivatives as corrosion inhibitors for copper in 1 M nitric acid solution. <i>RSC Advances</i> , 2021, 11, 25314-25333.	3.6	54
18	<i>Cerantonia siliqua</i> extract as a green corrosion inhibitor for copper and brass in nitric acid solutions. <i>Green Chemistry Letters and Reviews</i> , 2015, 8, 17-29.	4.7	53

#	ARTICLE	IF	CITATIONS
19	Expired Drug (pantoprazole sodium) as a Corrosion Inhibitor for High Carbon Steel in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2018, 13, 6327-6346.	1.3	53
20	Inhibitive effect of some thiadiazole derivatives on C-steel corrosion in neutral sodium chloride solution. <i>Materials Chemistry and Physics</i> , 2011, 125, 26-36.	4.0	52
21	Inhibition of the corrosion of iron by oxygen and nitrogen containing compounds. <i>Monatshefte für Chemie</i> , 1995, 126, 369-376.	1.8	50
22	Metal-organic frameworks based on silver (I) and nitrogen donors as new corrosion inhibitors for copper in HCl solution. <i>Journal of Molecular Liquids</i> , 2016, 213, 228-234.	4.9	49
23	Mitigation of corrosion of carbon steel in acidic solutions using an aqueous extract of <i>Tilia cordata</i> as green corrosion inhibitor. <i>International Journal of Industrial Chemistry</i> , 2017, 8, 61-73.	3.1	49
24	Structure, characterization and inhibition activity of new metal-organic framework. <i>Corrosion Science</i> , 2011, 53, 3657-3665.	6.6	47
25	Structure, Characterization and Anti-Corrosion Activity of the New Metal-Organic Framework [Ag(qox)(4-ab)]. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011, 21, 327-335.	3.7	47
26	Corrosion Inhibition of Carbon Steel in 1M Hydrochloric Acid Solution by Aqueous Extract of <i>Thevetia peruviana</i> . <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	2.6	47
27	Comprehensive investigations on the action of cationic terthiophene and bithiophene as corrosion inhibitors: experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2019, 43, 768-789.	2.8	47
28	A complementary experimental and in silico studies on the action of fluorophenyl-2,2'-bichalcophenes as ecofriendly corrosion inhibitors and biocide agents. <i>Journal of Molecular Liquids</i> , 2019, 276, 255-274.	4.9	47
29	The effect of some phthalimide derivatives on corrosion behavior of copper in nitric acid. <i>Desalination</i> , 2006, 201, 216-223.	8.2	46
30	Antibacterial drugs as environmentally-friendly corrosion inhibitors for carbon steel in acid medium. <i>Research on Chemical Intermediates</i> , 2013, 39, 921-939.	2.7	46
31	The role of indole and its derivatives in the pitting corrosion of Al in neutral chloride solution. <i>Corrosion Science</i> , 2004, 46, 579-590.	6.6	45
32	Moxifloxacin Antibiotic as Green Corrosion Inhibitor for Carbon Steel in 1M HCl. <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	2.6	45
33	Modazar as promising corrosion inhibitor of carbon steel in hydrochloric acid solution. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 88-100.	4.7	45
34	Ciprofloxacin as Eco-Friendly Corrosion Inhibitor for Carbon Steel in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2018, 13, 11096-11112.	1.3	44
35	Data from Chemical, electrochemical and quantum chemical studies for interaction between Cephapirin drug as an eco-friendly corrosion inhibitor and carbon steel surface in acidic medium. <i>Chemical Data Collections</i> , 2019, 22, 100251.	2.3	44
36	Mitigation of acid corrosion on carbon steel by novel pyrazolone derivatives. <i>RSC Advances</i> , 2017, 7, 45232-45240.	3.6	42

#	ARTICLE	IF	CITATIONS
37	Corrosion Inhibition and Adsorption Behavior of Nerium Oleander Extract on Carbon Steel in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3932-3948.	1.3	42
38	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> , 2014, 50, 659-666.	1.1	41
39	Experimental, quantum chemical and molecular simulation studies on the action of arylthiophene derivatives as acid corrosion inhibitors. <i>Journal of Molecular Liquids</i> , 2019, 290, 111178.	4.9	41
40	Synthesis and characterization of newly cationic surfactants based on 2-(2-(dimethylamino)ethoxy)ethanol: physicochemical, thermodynamic and evaluation as biocide. <i>Journal of Molecular Liquids</i> , 2016, 221, 224-234.	4.9	40
41	Corrosion Protection of Stainless Steel 201 in Acidic Media using Novel Hydrazine Derivatives as Corrosion Inhibitors. <i>International Journal of Electrochemical Science</i> , 2019, 14, 2187-2207.	1.3	40
42	CORROSION INHIBITION AND ADSORPTION BEHAVIOR OF SOME AZO DYE DERIVATIVES ON CARBON STEEL IN ACIDIC MEDIUM: SYNERGISTIC EFFECT OF HALIDE IONS. <i>Chemical Engineering Communications</i> , 2013, 200, 1366-1393.	2.6	39
43	Corrosion inhibition of carbon steel by Roselle extract in hydrochloric acid solution: electrochemical and surface study. <i>Research on Chemical Intermediates</i> , 2015, 41, 4833-4850.	2.7	39
44	Corrosion inhibition of aluminum in 1M H ₃ PO ₄ solutions by ethanolamines. <i>Arabian Journal of Chemistry</i> , 2012, 5, 297-307.	4.9	38
45	Effect of cysteine on the electrochemical behavior of Cu ₁₀ Ni alloy in sulfide polluted environments: Experimental and theoretical aspects. <i>Materials Chemistry and Physics</i> , 2012, 136, 1-9.	4.0	38
46	Corrosion inhibition of copper in HNO ₃ solution using thiophene and its derivatives. <i>Arabian Journal of Chemistry</i> , 2016, 9, S91-S99.	4.9	38
47	Some crown ethers as inhibitors for corrosion of stainless steel type 430 in aqueous solutions. <i>Desalination</i> , 2010, 250, 538-543.	8.2	35
48	Synthesis, characterization of novel coumarin dyes as corrosion inhibitors for mild steel in acidic environment: Experimental, theoretical, and biological studies. <i>Journal of Molecular Liquids</i> , 2022, 346, 118310.	4.9	35
49	Adsorption and micellization behavior of synthesized amidoamine cationic surfactants and their biological activity. <i>Journal of Molecular Liquids</i> , 2016, 216, 284-292.	4.9	33
50	Effectiveness of Some Organic Compounds as Corrosion Inhibitors for Stainless Steel 201 in 1M HCl: Experimental and Theoretical Studies. <i>International Journal of Electrochemical Science</i> , 2018, 13, 9826-9846.	1.3	33
51	Novel Anionic 4-Tert-Octyl Phenol Ethoxylate Phosphate Surfactant as Corrosion Inhibitor for C-steel in Acidic Media. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 189-201.	1.1	33
52	Synthesis and Characterization of Some Novel Thiazole Derivatives and Their Applications as Corrosion Inhibitors for Zinc in 1 M Hydrochloric Acid Solution. <i>Russian Journal of Electrochemistry</i> , 2021, 57, 159-171.	0.9	33
53	Corrosion inhibition of aluminum in 0.5 M HCl solutions containing phenyl sulfonylacetophenoneazo derivatives. <i>Research on Chemical Intermediates</i> , 2015, 41, 4687-4711.	2.7	32
54	Studies on the inhibition of carbon steel corrosion in hydrochloric acid solution by expired Carvedilol drug. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 336-345.	4.7	32

#	ARTICLE	IF	CITATIONS
55	LOW MOLECULAR WEIGHT STRAIGHT-CHAIN DIAMINES AS CORROSION INHIBITORS FOR SS TYPE 304 IN HCL SOLUTION. <i>Chemical Engineering Communications</i> , 2008, 195, 934-947.	2.6	31
56	Evolution of the Corrosion-inhibiting Efficiency of Novel Hydrazine Derivatives against Corrosion of Stainless Steel 201 in Acidic Medium. <i>International Journal of Electrochemical Science</i> , 2019, 14, 6045-6064.	1.3	30
57	Chemical, Electrochemical and Quantum Chemical Studies for Famotidine Drug as a Safe Corrosion Inhibitor for α -Brass in HCl Solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 398-411.	1.1	30
58	The effect of some β -diketo compounds on the retardation of aluminium dissolution in HCl. <i>Corrosion Science</i> , 1981, 21, 439-447.	6.6	29
59	INHIBITION OF CARBON STEEL CORROSION BY SOME CYANOACETOHYDRAZIDE DERIVATIVES IN HCL SOLUTION. <i>Chemical Engineering Communications</i> , 2010, 197, 1091-1108.	2.6	28
60	Evaluation of a novel cationic surfactant based on 2-(2 (dimethylamino)ethoxy)ethanol as a corrosion inhibitor for carbon steel 1018 in 1.0 M HCl solution. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 295-306.	2.6	27
61	Corrosion Inhibition of Carbon Steel by New Thiophene Azo Dye Derivatives in Acidic Solution. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2277-2287.	2.5	26
62	Role of Some Organic Compounds as Corrosion Inhibitors for 316L Stainless Steel in 1 M HCl. <i>International Journal of Electrochemical Science</i> , 2017, 12, 347-362.	1.3	26
63	Evaluation of N-(3-(dimethyl hexadecyl ammonio)propyl) palmitamide bromide as cationic surfactant corrosion inhibitor for API N80 steel in acidic environment. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 683-694.	2.6	26
64	Niclosamide and dichlorphenamide: new and effective corrosion inhibitors for carbon steel in 1M HCl solution. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	26
65	A new metal-organic framework based on cadmium thiocyanate and 6-methylequinoline as corrosion inhibitor for copper in 1 M HCl solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 937-949.	1.1	25
66	Inhibition Effect and Adsorption Behavior of New Azodye Derivatives on Corrosion of Carbon Steel in Acid Medium. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 1471-1480.	2.4	24
67	Henna Extract as Green Corrosion Inhibitor for Carbon Steel in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2019, 14, 4668-4682.	1.3	24
68	Evaluation of an Expired Nontoxic Amlodipine Besylate Drug as a Corrosion Inhibitor for Low-Carbon Steel in Hydrochloric Acid Solutions. <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	2.6	23
69	Corrosion Inhibition of Aluminum in Hydrochloric Acid Solution Using Some Pyrazolocarbothioamide Derivatives. <i>International Journal of Electrochemical Science</i> , 2017, 12, 11397-11418.	1.3	23
70	Use of 1-Phenylamino-3-(4-Phenylthiosemi carbazone)-Butane-1,3-dione Derivatives as Corrosion Inhibitors for C-Steel in Acidic Chloride Solutions. <i>Portugaliae Electrochimica Acta</i> , 2000, 18, 99-111.	1.1	23
71	Some Schiff base compounds as inhibitors for corrosion of carbon steel in acidic media. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 477-486.	1.1	22
72	Effect of alloying elements on the electrochemical behavior of Cu ϵ -Ni ϵ -Zn ternary system in sulfide-polluted saltwater. <i>Applied Surface Science</i> , 2014, 307, 621-630.	6.1	22

#	ARTICLE	IF	CITATIONS
73	Ginger Extract as Green Corrosion Inhibitor for Steel in Sulfide Polluted Salt Water. Journal of the Korean Chemical Society, 2013, 57, 272-278.	0.2	22
74	Experimental and computational chemical studies on the corrosion inhibitive properties of carbonitrile compounds for carbon steel in aqueous solutions. Scientific Reports, 2021, 11, 21672.	3.3	22
75	Adsorption and Corrosion Inhibition Behavior of Carbon Steel by Cefoperazone as Eco-Friendly Inhibitor in HCl. Journal of Materials Engineering and Performance, 2013, 22, 2314-2322.	2.5	21
76	Adsorption and corrosion inhibition behavior of polyethylene glycol on α -brass alloy in nitric acid solution. Green Chemistry Letters and Reviews, 2018, 11, 67-77.	4.7	21
77	The Inhibition of C-steel Corrosion in H ₃ PO ₄ Solution by Some Furfural Hydrazone Derivatives. Journal of the Korean Chemical Society, 2008, 52, 124-132.	0.2	21
78	Adsorption and inhibitive properties of methanol extract of Euphorbia Heterophylla for the corrosion of copper in 0.5 M nitric acid solutions. Polish Journal of Chemical Technology, 2017, 19, 95-103.	0.5	20
79	Phenazone and aminophenazone as corrosion inhibitors for aluminum in HCl solution. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 803-812.	1.1	19
80	Corrosion Inhibition of Aluminum-Silicon Alloy in Hydrochloric Acid Solutions Using Carbamidic Thioanhydride Derivatives. Journal of Bio- and Tribo-Corrosion, 2016, 2, 1.	2.6	19
81	Berry Leaves Extract as Green Effective Corrosion Inhibitor for Cu in Nitric Acid Solutions. Surface Engineering and Applied Electrochemistry, 2018, 54, 498-507.	0.8	19
82	Some New Nonionic Surfactants Based on Propane Tricarboxylic Acid as Corrosion Inhibitors for Low Carbon Steel in Hydrochloric Acid Solutions. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	19
83	Experimental and surface morphological studies of corrosion inhibition on carbon steel in HCl solution using some new hydrazide derivatives. RSC Advances, 2021, 11, 13497-13512.	3.6	19
84	Inhibition of Zinc Corrosion by Some Benzaldehyde Derivatives in HCl Solution. Journal of Materials Engineering and Performance, 2012, 21, 995-1002.	2.5	18
85	1-Naphthyl-2-cyanoacetamide in heterocyclic synthesis: synthesis and evaluation of the antimicrobial activity of some new pyridine, pyrimidine, and naphtho[2,1-b]oxazine derivatives. Research on Chemical Intermediates, 2015, 41, 7883-7897.	2.7	18
86	Corrosion Inhibition of Zinc in Acid Medium using some Novel Organic Compounds. International Journal of Electrochemical Science, 2018, 13, 3719-3744.	1.3	18
87	Olive leaf as green corrosion inhibitor for C-steel in Sulfamic acid solution. Green Chemistry Letters and Reviews, 2019, 12, 332-342.	4.7	18
88	Influence of some thiophene derivatives on the corrosion of iron in nitric acid solution. Monatshefte für Chemie, 1986, 117, 159-165.	1.8	17
89	Corrosion inhibition of aluminum 6063 using some pharmaceutical compounds. Protection of Metals and Physical Chemistry of Surfaces, 2009, 45, 635-643.	1.1	17
90	Cephalosporin antibiotics as new corrosion inhibitors for nickel in HCl solution. Research on Chemical Intermediates, 2014, 40, 1249-1266.	2.7	17

#	ARTICLE	IF	CITATIONS
91	Corrosion Inhibition and Adsorption Behavior of Some Cationic Surfactants on Carbon Steel in Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	2.6	17
92	Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods. <i>RSC Advances</i> , 2021, 11, 19294-19309.	3.6	17
93	Adsorption and inhibitive properties of Phoenix dactylifera L. Extract as a green inhibitor for aluminum and aluminum-silicon alloy in HCl. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 420-431.	1.1	16
94	Prosopis juliflora Plant Extract as Potential Corrosion Inhibitor for Low-Carbon Steel in 1M HCl Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	2.6	16
95	A study on the effect of new prepared amide cationic amphipathic on the corrosion inhibition of API N80 steel pipelines in oil wells industries. <i>Anti-Corrosion Methods and Materials</i> , 2018, 65, 197-209.	1.5	16
96	Adsorption and Anticorrosion Behavior of Expired Meloxicam on Mild Steel in Hydrochloric Acid Solution. <i>Surface Engineering and Applied Electrochemistry</i> , 2020, 56, 491-500.	0.8	16
97	Cluster type molecule as novel corrosion inhibitor for steel in HCl solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 113-123.	1.1	15
98	Unused Meropenem Drug as Corrosion Inhibitor for Copper in Acidic Medium; Experimental and Theoretical Studies. <i>International Journal of Electrochemical Science</i> , 2016, 11, 9745-9761.	1.3	15
99	The inhibition action of methoxy-substituted phenylthienyl benzamidines on the corrosion of carbon steel in hydrochloric acid medium. <i>Journal of Molecular Liquids</i> , 2020, 312, 113267.	4.9	15
100	SYNERGISTIC CORROSION INHIBITION ACTIVITY OF THE CHICORIUM MINTYBUS EXTRACT AND IODIDE IONS FOR MILD STEEL IN ACIDIC MEDIA. <i>Journal of the Chilean Chemical Society</i> , 2020, 65, 4672-4681.	1.2	15
101	Corrosion Inhibition of Zn in a 0.5 M HCl Solution by Ailanthus Altissima Extract. <i>Portugaliae Electrochimica Acta</i> , 2018, 36, 309-323.	1.1	15
102	Extract of Camellia sinensis as Green Inhibitor for the Corrosion of Mild Steel in Aqueous Solution. <i>Journal of the Korean Chemical Society</i> , 2013, 57, 264-271.	0.2	15
103	Synthesis and Biological Evaluation of Novel Thiophene Derivatives as Green Inhibitors for Aluminum Corrosion in Acidic Media. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 1060-1075.	1.1	15
104	Evaluation of Curam drug as an ecofriendly corrosion inhibitor for protection of stainless steel 304 in hydrochloric acid solution: Chemical, electrochemical, and surface morphology studies. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 826-836.	1.4	15
105	Unused clopidogrel drug as eco-friendly corrosion inhibitor for carbon steel in aqueous media. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 139-149.	1.1	14
106	Evaluation of Some Organic Compounds Containing O, N and S Atoms as Corrosion Inhibitors for Stainless Steel 304 in Acid Solutions. <i>International Journal of Electrochemical Science</i> , 2017, 12, 5072-5091.	1.3	14
107	Synergistic Effect of Potassium Iodide on Corrosion Inhibition of Carbon Steel by Achillea santolina Extract in Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	14
108	Corrosion Inhibition Effect of Methanol Extract of Nerium Oleander on Copper in Nitric Acid Solutions. <i>International Journal of Electrochemical Science</i> , 2019, , 6884-6901.	1.3	14

#	ARTICLE	IF	CITATIONS
109	Synthesis, Characterization, and Application of New Nonionic Surfactant as a Corrosion Inhibitor for Carbon Steel in 1M Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	14
110	Inhibitory Effect of some carbazides on corrosion of aluminium in hydrochloric acid and sodium hydroxide solutions. <i>Materialwissenschaft Und Werkstofftechnik</i> , 1995, 26, 342-346.	0.9	13
111	Some Aromatic Hydrazone Derivatives as Inhibitors for the Corrosion of C-Steel in Phosphoric Acid Solution. <i>Annali Di Chimica</i> , 2006, 96, 85-96.	0.6	13
112	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> , 2015, 51, 473-480.	1.1	13
113	Distyryl Derivatives as Corrosion Inhibitors for Carbon Steel in Acid Cleaning Process in Cooling Towers. <i>Journal of Bio- and Tribo-Corrosion</i> , 2017, 3, 1.	2.6	13
114	Assessment of Begonia Extract as New Eco-friendly Inhibitor for Low-Carbon-Steel Corrosion in Acidic Environment. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	2.6	13
115	Efficiency of some phenylthiosemicarbazide derivatives in retarding the dissolution of Al in NaOH solution. <i>Monatshefte Für Chemie</i> , 1987, 118, 709-716.	1.8	12
116	Corrosion Inhibition of Aluminum-Silicon Alloy in 1 M HCl Solution Using Phenazone and Aminophenazone. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 5363-5371.	1.1	12
117	Corrosion Inhibition of Novel Prepared Cationic Surfactants for API N80 Carbon Steel Pipelines in Oil Industries. <i>Surface Engineering and Applied Electrochemistry</i> , 2018, 54, 180-193.	0.8	12
118	Inhibitive Action of New Synthesized Cationic Surfactant with Free Hydroxyl Group on the C1018 Steel Corrosion: Experimental and Theoretical Investigations. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 709-723.	1.1	12
119	<i>Ferula hermonis</i> Plant Extract as Safe Corrosion Inhibitor for Zinc in Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	12
120	Role of Some Phenylthiourea Derivatives as Corrosion Inhibitors for Carbon Steel in HCl Solution. <i>Journal of the Korean Chemical Society</i> , 2012, 56, 264-273.	0.2	12
121	Electrochemical and quantum chemical studies on the corrosion inhibition of 1037 carbon steel by different types of surfactants. <i>RSC Advances</i> , 2022, 12, 3253-3273.	3.6	12
122	Curcumin Derivatives as Green Corrosion Inhibitors for α -Brass in Nitric Acid Solution. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2354-2362.	2.5	11
123	Some Thiophene Derivatives as Corrosion Inhibitors for Carbon Steel in Hydrochloric Acid. <i>Journal of Metallurgy</i> , 2014, 2014, 1-15.	1.1	11
124	Synergistic Effect of Potassium Iodide with <i>Cassia italica</i> Extract on the Corrosion Inhibition of Carbon Steel Used in Cooling Water Systems in 0.5M H ₂ SO ₄ . <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	2.6	11
125	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> , 2018, 54, 1204-1212.	1.1	11
126	Aqueous Extract of <i>Juniperus</i> as a Green Corrosion Inhibitor for Mild Steel (MS) in Sulfamic Acid (NH ₂ SO ₃ H) Solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 1194-1203.	1.1	11

#	ARTICLE	IF	CITATIONS
127	Investigation of 6-[5-(4-Methoxyphenyl) furan-2-yl] Nicotinonitrile as a New Corrosion Inhibitor for Carbon Steel in Acidic Solution: Chemical, Electrochemical and Quantum Chemical Studies. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	11
128	Pomegranate Aqueous Extract (PAE) as an Eco-Friendly Inhibitor for Carbon Steel Used in Sanitation Plants: Kinetics and Bacteria Effect. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	11
129	Novel Mn ²⁺ , Fe ³⁺ , Co ²⁺ , Ni ²⁺ and Cu ²⁺ complexes of potential OS donor thiosemicarbazide: Design, structural elucidation, anticorrosion potential study and antibacterial activity. Journal of Molecular Structure, 2020, 1204, 127495.	3.6	11
130	Substituted phenols as corrosion inhibitors for copper in nitric acid. Materials and Corrosion - Werkstoffe Und Korrosion, 1988, 39, 23-26.	1.5	10
131	Phenyl semicarbazide derivatives as corrosion inhibitors for aluminium in hydrochloric acid solution. Monatshefte Für Chemie, 1989, 120, 501-507.	1.8	10
132	Some quinazoline derivatives as corrosion inhibitors for copper in HNO ₃ solution. Desalination and Water Treatment, 2010, 22, 340-348.	1.0	10
133	Lanthanides as environmentally friendly corrosion inhibitors of iron in 3.5% NaCl solution. Desalination and Water Treatment, 2013, 51, 3164-3178.	1.0	10
134	Fennel seed extract as green corrosion inhibitor for 304 stainless steel in hydrochloric acid solutions. Desalination and Water Treatment, 2014, 52, 5175-5186.	1.0	10
135	Corrosion inhibition of mild steel in aqueous solutions using nonionic surfactants. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 743-752.	1.1	10
136	Corrosion Inhibition of Low Carbon Steel in 1 M HCl Solution Using Pulicaria Undulata Plant Extract. International Journal of Electrochemical Science, 2017, 12, 9212-9230.	1.3	10
137	Corrosion Inhibition of Aluminum by Cerium rubrum Extract in Hydrochloric Acid Environment. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	10
138	Benzaldehyde, 2-Hydroxybenzoyl Hydrazone Derivatives as Inhibitors of the Corrosion of Aluminium in Hydrochloric Acid.. Chemical and Pharmaceutical Bulletin, 2000, 48, 636-640.	1.3	9
139	Corrosion inhibition of aluminum alloy in H ₃ PO ₄ solution using para-thiazolidinone derivatives. Desalination and Water Treatment, 2011, 30, 207-216.	1.0	9
140	NEW ARYLAZODYES AS CORROSION INHIBITORS FOR MILD STEEL IN HCl SOLUTION. Chemical Engineering Communications, 2011, 198, 1111-1128.	2.6	9
141	Role of some pyrazol-5-one derivatives as corrosion inhibitors for 316L stainless steel in 1 M HCl. Desalination and Water Treatment, 2013, 51, 2202-2213.	1.0	9
142	Adsorption and Corrosion Inhibition of Cu in Nitric Acid by Expired Simvastatin Drug. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 572-582.	1.1	9
143	Anticorrosion Properties of Some Nonionic Surfactants on Carbon Steel in 1 M HCl Environment. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	9
144	Corrosion Inhibition of Two Aluminum Silicon Alloys in 0.5 M HCl Solution by Some Azole Derivatives Using Electrochemical Techniques. Surface Engineering and Applied Electrochemistry, 2019, 55, 172-182.	0.8	9

#	ARTICLE	IF	CITATIONS
145	Evaluation of the Inhibition Effect of Some Novel Organic Compounds (phenol derivatives) for Corrosion of α -brass in Acid Solutions. International Journal of Electrochemical Science, 2020, 15, 188-207.	1.3	9
146	Evaluation of Calcium Oxide Nanoparticles from Industrial Waste on the Performance of Hardened Cement Pastes: Physicochemical Study. Processes, 2020, 8, 401.	2.8	9
147	Synthesis and Characterization of Novel Fatty Alcohol Ethoxylate Surfactants for Corrosion Inhibition of Mild Steel. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	2.6	9
148	Effect of β -Blocker Inhibitors on Aluminum Corrosion. Journal of the Korean Chemical Society, 2011, 55, 268-278.	0.2	9
149	Corrosion Inhibition of Stainless Steel in 1.0 M Hydrochloric Acid Solution Using Novel Nonionic Surfactant: Electrochemical and Density Functional Theory/B3LYP/6-31G* Analysis. Surface Engineering and Applied Electrochemistry, 2021, 57, 689-702.	0.8	9
150	Standard potentials of the (silver+silver chloride) electrode and the thermodynamic behaviour of hydrochloric acid in (ethanol+water) at 288.15 to 328.15 K. Journal of Chemical Thermodynamics, 1981, 13, 725-734.	2.0	8
151	Corrosion inhibition effect and adsorption of aniline derivatives on QD36 steel surface in acidic solution. Protection of Metals and Physical Chemistry of Surfaces, 2013, 49, 753-762.	1.1	8
152	Corrosion Inhibition of Aluminum in 1M H ₂ SO ₄ by Tecoma Non-aqueous Extract. Journal of Bio- and Tribo-Corrosion, 2017, 3, 1.	2.6	8
153	Evaluation of Cleome Droserifolia (Samwah) as Green Corrosion Inhibitor for Mild Steel in 1 M HCl Solution. International Journal of Electrochemical Science, 2018, , 7057-7075.	1.3	8
154	Experimental and computational chemical studies on the cationic furanyl nicotinamides as novel corrosion inhibitors in aqueous solutions. Chinese Journal of Chemical Engineering, 2020, 28, 477-491.	3.5	8
155	Convenient synthesis of functionalized thieno[2,3-d]pyrimidine-ones and thieno[2,3-b]pyridine-ones bearing a pyridine moiety with anticipated antioxidant activity. Journal of Heterocyclic Chemistry, 2020, 57, 2928-2935.	2.6	8
156	<i>Fagonia arabica</i> extract as a safe environment green corrosion inhibitor for Cu in HNO_3 solution. Journal of the Chinese Chemical Society, 2021, 68, 1445-1455.	1.4	8
157	Inhibition of corrosion of copper in nitric acid solution by some arylmethylene cyanothioacetamide derivatives. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 45-55.	0.2	8
158	Synergistic Effect of Barium Chloride on Corrosion Inhibition of Copper by Aqueous Extract of Lupine Seeds in Nitric Acid. International Journal of Electrochemical Science, 2017, 12, 5934-5950.	1.3	8
159	Corrosion Inhibition of Electrodeposited Tellurium and Palladium in Nitric Acid Solution. Portugaliae Electrochimica Acta, 2005, 23, 275-287.	1.1	8
160	Aluminum corrosion prevention in 1.0M HCl solution by <i>Cytosiera myrica</i> extract: An experimental and biological study. Journal of the Indian Chemical Society, 2022, 99, 100619.	2.8	8
161	Thermodynamic properties of hydrobromic acid in ethanol + water solvent mixtures from electromotive force measurements at 15-55°C. Electrochimica Acta, 1981, 26, 1125-1131.	5.2	7
162	Thermodynamic studies of hydrobromic acid in (ethylene glycol + water) from electromotive-force measurements. Journal of Chemical Thermodynamics, 1982, 14, 1-9.	2.0	7

#	ARTICLE	IF	CITATIONS
163	Corrosion Inhibition of Copper in Nitric Acid Solution Using Some Secondary Amines. <i>Corrosion</i> , 2012, 68, 610-619.	1.1	7
164	Corrosion protection of carbon steel in hydrochloric acid solutions using thiourea derivatives. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 847-860.	1.1	7
165	Methanol Extract of <i>Slanum Nigrum</i> as Eco-Friendly Corrosion Inhibitor for Zinc in Sodium Chloride Polluted Solutions. <i>International Journal of Electrochemical Science</i> , 2017, , 9104-9120.	1.3	7
166	Corrosion Inhibition of Aluminium by Rice Straw Extract in 2 M Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	7
167	The use of Chalcones as Corrosion Inhibitors for Nickel Corrosion in Nitric Acid Solution. <i>Portugaliae Electrochimica Acta</i> , 2002, 20, 13-23.	1.1	7
168	Aqueous Extract of Coriander Seeds as Green Corrosion Inhibitor for 304 Stainless Steel in Hydrochloric Acid Solutions. <i>Journal of the Korean Chemical Society</i> , 2014, 58, 25-32.	0.2	7
169	Electrochemical Adsorption Properties and Inhibition of Zinc Corrosion by Two Chromones in Sulfuric Acid Solutions. <i>Journal of the Korean Chemical Society</i> , 2014, 58, 160-168.	0.2	7
170	Standard potentials of the silver-silver bromide electrode in dioxane-water mixtures and related thermodynamic functions. <i>Electrochimica Acta</i> , 1981, 26, 255-260.	5.2	6
171	Isindoline derivatives as inhibitors for the corrosion of carbon steel in HCl solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011, 47, 253-263.	1.1	6
172	Performance of some thiophene derivatives as corrosion inhibitors for 304 stainless steel in aqueous solutions. <i>Research on Chemical Intermediates</i> , 2013, 39, 2641-2661.	2.7	6
173	Eco-Friendly Plant Extract of <i>Medicago sativa</i> (Alfalfa) as Corrosion Inhibitor for Carbon Steel in Marine Environment. <i>Surface Engineering and Applied Electrochemistry</i> , 2019, 55, 294-303.	0.8	6
174	Paprika extract: a green inhibitor for mitigating carbon steel disintegration in 1 M HCl pickling solution. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 598-609.	4.7	6
175	5-Arylidene-1,3-dialkylbarbituric acid derivatives as efficient corrosion inhibitors for carbon steel in molar hydrochloric acid solution. <i>RSC Advances</i> , 2022, 12, 10443-10459.	3.6	6
176	Sweet Corrosion Inhibition on API 5L-B Pipeline Steel. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 739-752.	2.4	5
177	Corrosion control of steel in HCl solutions by cyanoacetamide derivatives. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 254-265.	1.1	5
178	Adsorption and Inhibition Behavior of <i>Avicennia Marina</i> for Zn Metal in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2017, 12, 11789-11804.	1.3	5
179	Structure, Characterizations and Corrosion Inhibition of New Coordination Polymer Based on Cadmium Azide and Nicotinate Ligand. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 689-699.	1.1	5
180	The Synergistic Impact of the Aqueous <i>Valerian</i> Extract and Zinc Ions for the Corrosion Protection of Mild Steel in Acidic Environment. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 1713-1739.	2.8	5

#	ARTICLE	IF	CITATIONS
181	New Synthesized Nicotinonitrile Derivatives as Effective Corrosion Inhibitors for Carbon Steel in Acidic Environment: Electrochemical, Surface Analysis, and Quantum Methods. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	5
182	Synthesis of Some Ethoxylated and Sulfonated Fatty Alcohol Surfactants and Their Inhibition Actions for C-Steel Corrosion in 1M HCl. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	5
183	Corrosion inhibition of carbon steel in hydrochloric acid by cationic arylthiophenes as new eco-friendly inhibitors: Experimental and quantum chemical study. <i>Chinese Journal of Chemical Engineering</i> , 2021, 40, 197-217.	3.5	5
184	Juglans Regia Extract (JRE) as Eco-Friendly Inhibitor for Aluminum Metal in Hydrochloric Acid Medium. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 6398-6416.	1.0	5
185	Synthesis and Structure Characterizations of Coordination Polymers Based on Silver(I) and Nitrogen Donors. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 702-711.	3.7	4
186	Electrochemical assessment of inhibitive behavior of some antibacterial drugs on 316 stainless steel in acidic medium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016, 52, 562-573.	1.1	4
187	Synergistic Effect of Potassium Iodide with Some Heterocyclic Compounds on the Corrosion Inhibition of 304 Stainless Steel in Hydrochloric Acid Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2017, 3, 1.	2.6	4
188	Azo Compounds as Green Corrosion Inhibitor for Carbon Steel in Hydrochloric Acid Solution: Corrosion Inhibition and Thermodynamic Parameters. <i>International Journal of Electrochemical Science</i> , 2017, , 8745-8760.	1.3	4
189	Some Anionic Surfactants as Corrosion Inhibitors for Carbon Steel in Hydrochloric Acid Solution. <i>Key Engineering Materials</i> , 0, 786, 134-148.	0.4	4
190	Evaluation of Some New Synthesized Surfactants Based on Maleic Acid as Inhibitors for Low Carbon Steel (LCS) Corrosion in 1.0 M HCl Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 171-199.	2.8	4
191	Inhibitive Influence of Cumin (Cuminum Cyminum) Seed Extract on the Dissolution of Al in 2M HCl Acid Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	4
192	Cinnamon Plant Extract as Corrosion Inhibitor for Steel Used in Waste Water Treatment Plants and Its Biological Effect on Escherichia coli. <i>Journal of the Korean Chemical Society</i> , 2014, 58, 359-365.	0.2	4
193	Synthesis and inhibitive characteristic of two acryloyl chloride derivatives towards the corrosion of API 5L X52 carbon steel in hydrochloric acid medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2022, 236, 535-559.	2.8	4
194	Efficiency of Azodyes in Retarding the Dissolution of Aluminium in Hydrochloric Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1988, 61, 4411-4416.	3.2	3
195	Corrosion Inhibition of iron in 2M hydrochloric acid solution. <i>Materialwissenschaft Und Werkstofftechnik</i> , 1995, 26, 357-361.	0.9	3
196	Azorhodanine Derivatives as Inhibitors for Acidic Corrosion of Nickel. <i>Annali Di Chimica</i> , 2005, 95, 53-62.	0.6	3
197	TERTIARY KETONIC MANNICH BASES AS CORROSION INHIBITORS FOR ALUMINUM DISSOLUTION IN ACIDIC SOLUTIONS. <i>Chemical Engineering Communications</i> , 2009, 197, 366-376.	2.6	3
198	The Inhibitive Action of Some Diazole Derivatives on the Corrosion of 304 Stainless Steel in HCl Solution. <i>Surface Engineering and Applied Electrochemistry</i> , 2019, 55, 97-108.	0.8	3

#	ARTICLE	IF	CITATIONS
199	Inhibition of Copper Corrosion in Binary Acid Mixtures (HNO ₃ + H ₃ PO ₄) using Tamarix Boveana Plant Extract. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 1173-1181.	1.1	3
200	New Heterocyclic Derivative to Stop Carbon Steel Corrosion. Zeitschrift Fur Physikalische Chemie, 2020, 234, 63-73.	2.8	3
201	Thermodynamics of hydrochloric acid in (1-propanol+water) from electromotive-force measurements. Journal of Chemical Thermodynamics, 1981, 13, 1123-1132.	2.0	2
202	INHIBITION OF CORROSION OF ±-BRASS (Cu-Zn, 67/33) IN HNO ₃ SOLUTIONS BY SOME ARYLAZO INDOLE DERIVATIVES. Journal of the Chilean Chemical Society, 2009, 54, .	1.2	2
203	Corrosion inhibition of 1018 carbon steel in hydrochloric acid solutions by benzothazol-2-cyanomethyl derivatives. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 637-650.	1.1	2
204	Electrochemical and Quantum Chemical Investigations of some Cyanoacetamide Derivatives as Eco-Friendly Corrosion Inhibitors for Aluminum-Silicon Alloy in Acidic Solution. International Journal of Electrochemical Science, 2017, , 4134-4149.	1.3	2
205	An Expired Non-Toxic Diltiazem Hydrochloride as Corrosion Inhibitor for Cu in Nitric Acid Medium. International Journal of Electrochemical Science, 2017, 12, 1952-1969.	1.3	2
206	Experimental and Theoretical Studies of the Inhibition Effects of 4-Hydroxycoumarin Derivatives on the Corrosion of Al in Hydrochloric Acid Solution. International Journal of Electrochemical Science, 2018, 13, 4670-4692.	1.3	2
207	Flubendazole: New Corrosion Inhibitor for 6061Al-Si Alloy in 0.1M HCl Medium. International Journal of Electrochemical Science, 2018, 13, 10973-10989.	1.3	2
208	Adenium obesum Extract as a Safe Corrosion Inhibitor for C-Steel in NaCl Solutions: Investigation of Biological Effects. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	2
209	Amide Compounds as Corrosion Inhibitors for Carbon Steel in Acidic Environment. Protection of Metals and Physical Chemistry of Surfaces, 2022, 58, 151-167.	1.1	2
210	Electrodeposition of tellurium from phthalic acid bath. Journal of Radioanalytical and Nuclear Chemistry, 1987, 118, 45-58.	1.5	1
211	Corrosion inhibition of iron by 1-benzylidene-4- Phenylthiosemicarbazone derivatives in acid solution. Materialwissenschaft Und Werkstofftechnik, 1997, 28, 439-443.	0.9	1
212	Corrosion inhibition of 6061Al-Si alloy by using Metronidazole in 0.1M HCl Medium. International Journal of Electrochemical Science, 2018, 13, 7612-7628.	1.3	1
213	Sargassum latifolium Extract as a Safe Corrosion Inhibitor for Aluminum in 1 M Hydrochloric Acid Medium: Surface Analysis and Biological Effect. Surface Engineering and Applied Electrochemistry, 2021, 57, 473-486.	0.8	1
214	Pitting Corrosion of Aluminium in Halide Solutions Containing Some Anionic Surfactants. Portugaliae Electrochimica Acta, 2000, 18, 35-43.	1.1	1
215	Inhibitive, Adsorption Studies on Carbon Steel Corrosion in Acidic Solutions by New Synthesized Benzene Sulfonamide Derivatives. International Journal of Electrochemical Science, 0, , 9998-10019.	1.3	1
216	Electrochemical production of Palladium and its use as indicator electrode. Materialwissenschaft Und Werkstofftechnik, 1995, 26, 488-492.	0.9	0

#	ARTICLE	IF	CITATIONS
217	Salicornia Begolovi as Eco-Friendly Corrosion Inhibitor for Aluminum in Hydrochloric Acid Solution. Egyptian Journal of Chemistry, 2017, .	0.2	0