Belkheir Hammouti

List of Publications by Citations

196 papers	6,506 citations	44 h-index	72 g-index
198 ext. papers	7,094 ext. citations	3.6 avg, IF	5.67 L-index

#	Paper	IF	Citations
196	Thermodynamic properties of 2,5-bis(4-methoxyphenyl)-1,3,4-oxadiazole as a corrosion inhibitor for mild steel in normal sulfuric acid medium. *Corrosion Science*, **2006**, 48, 2831-2842	6.8	334
195	Adsorption properties and inhibition of mild steel corrosion in hydrochloric solution by some newly synthesized diamine derivatives: Experimental and theoretical investigations. *Corrosion Science*, **2010**, 52, 3042-3051	6.8	259
194	Corrosion control of carbon steel in phosphoric acid by purpald Weight loss, electrochemical and XPS studies. *Corrosion Science*, **2012**, 64, 243-252	6.8	181
193	Pennyroyal oil from Mentha pulegium as corrosion inhibitor for steel in 1 M HCl. *Materials Letters*, **2006**, 60, 2840-2843	3.3	167
192	New thio-compounds as corrosion inhibitor for steel in 1M HCl. *Corrosion Science*, **2006**, 48, 2470-2479	6.8	162
191	Establishment of equivalent circuits from electrochemical impedance spectroscopy study of corrosion inhibition of steel by pyrazine in sulphuric acidic solution. *Applied Surface Science*, **2006**, 252, 4190-4197	6.7	159
190	Corrosion inhibitors for iron in hydrochloride acid solution by newly synthesised pyridazine derivatives. *Corrosion Science*, **2003**, 45, 1675-1684	6.8	156
189	Inhibitive action of bipyrazolic type organic compounds towards corrosion of pure iron in acidic media. *Applied Surface Science*, **2005**, 249, 375-385	6.7	142
188	Corrosion inhibition of iron in 1M HCl by 1-phenyl-5-mercapto-1,2,3,4-tetrazole. *Applied Surface Science*, **1996**, 93, 59-66	6.7	135
187	Insights into corrosion inhibition behavior of three chalcone derivatives for mild steel in hydrochloric acid solution. *Journal of Molecular Liquids*, **2017**, 238, 71-83	6	125
186	Effect of clozapine on inhibition of mild steel corrosion in 1.0 M HCl medium. *Journal of Molecular Liquids*, **2017**, 225, 271-280	6	123
185	Corrosion inhibition of armco iron in 1 M HCl media by new bipyrazolic derivatives. *Corrosion Science*, **2000**, 42, 929-940	6.8	119
184	Thermodynamic characterisation of steel corrosion and inhibitor adsorption of pyridazine compounds in 0.5 M H2SO4. *Materials Letters*, **2006**, 60, 1901-1905	3.3	118
183	Some amino acids as corrosion inhibitors for copper in nitric acid solution. *Materials Letters*, **2008**, 62, 3325-3327	3.3	111
182	Some benzotriazole derivatives as corrosion inhibitors for copper in acidic medium: Experimental and quantum chemical molecular dynamics approach. *Materials Chemistry and Physics*, **2009**, 117, 148-155	4.4	105
181	Inhibitive action of some bipyrazolic compounds on the corrosion of steel in 1M HCl. *Materials Chemistry and Physics*, **2007**, 105, 373-379	4.4	88
180	A theoretical study on the inhibition efficiencies of some quinoxalines as corrosion inhibitors of copper in nitric acid. *Journal of Saudi Chemical Society*, **2014**, 18, 450-455	4.3	86

179	New synthesised pyridazine derivatives as effective inhibitors for the corrosion of pure iron in HCl medium. *Progress in Organic Coatings*, **2002**, 45, 373-378	4.8	77
178	The effect of some lactones as inhibitors for the corrosion of mild steel in 1M hydrochloric acid. *Materials Chemistry and Physics*, **2007**, 106, 260-267	4.4	75
177	Substituted uracils as corrosion inhibitors for copper in 3% NaCl solution. *Corrosion Science*, **2003**, 45, 1619-1630	6.8	74
176	Inhibitive Properties and Adsorption of Purpald as a Corrosion Inhibitor for Copper in Nitric Acid Medium. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2560-2568	3.9	73
175	Effect of the substitution of an oxygen atom by sulphur in a pyridazinic molecule towards inhibition of corrosion of steel in 0.5 M H2SO4 medium. *Progress in Organic Coatings*, **2004**, 51, 118-124	4.8	73
174	Inhibition of the corrosion of steel in 1M HCl by eugenol derivatives. *Applied Surface Science*, **2005**, 246, 199-206	6.7	73
173	Ruthenium□gand complex, an efficient inhibitor of steel corrosion in H3PO4 media. *Materials Letters*, **2007**, 61, 1197-1204	3.3	71
172	Inhibitive properties of 2,5-bis(n-methylphenyl)-1,3,4-oxadiazole and biocide on corrosion, biocorrosion and scaling controls of brass in simulated cooling water. *Corrosion Science*, **2014**, 80, 442-452	6.8	70
171	Investigation of the inhibitive effect of triphenyltin 2-thiophene carboxylate on corrosion of steel in 2 M H3PO4 solutions. *Applied Surface Science*, **2006**, 252, 8341-8347	6.7	70
170	Corrosion inhibition of carbon steel in aggressive acidic media with 1-(2-(4-chlorophenyl)-2-oxoethyl)pyridazinium bromide. *Journal of Molecular Liquids*, **2015**, 211, 1000-1008	6	67
169	Essential oil of Salvia aucheri mesatlantica as a green inhibitor for the corrosion of steel in 0.5M H2SO4. *Arabian Journal of Chemistry*, **2012**, 5, 467-474	5.9	66
168	Inhibition of steel corrosion in 2M H3PO4 by artemisia oil. *Applied Surface Science*, **2006**, 252, 6212-6217	6.7	66
167	A study of anti-corrosive effects of Artemisia oil on steel. *Pigment and Resin Technology*, **2004**, 33, 287-292	1	65
166	Fennel (Foeniculum Vulgare) Essential Oil as Green Corrosion Inhibitor of Carbon Steel in Hydrochloric Acid Solution. *Portugaliae Electrochimica Acta*, **2011**, 29, 127-138	2.4	64
165	Weight Loss, Electrochemical, Quantum Chemical Calculation, and Molecular Dynamics Simulation Studies on 2-(Benzylthio)-1,4,5-triphenyl-1H-imidazole as an Inhibitor for Carbon Steel Corrosion in Hydrochloric Acid. *Industrial & Engineering Chemistry Research*, **2013**, 52, 14315-14327	3.9	59
164	Inhibition of corrosion of iron in citric acid media by aminoacids. *Progress in Organic Coatings*, **2004**, 51, 134-138	4.8	59
163	Thermodynamic, chemical and electrochemical investigations of 2-mercapto benzimidazole as corrosion inhibitor for mild steel in hydrochloric acid solutions. *Arabian Journal of Chemistry*, **2011**, 4, 17-24	5.9	58
162	Chitosan polymer as a green corrosion inhibitor for copper in sulfide-containing synthetic seawater. *International Journal of Biological Macromolecules*, **2018**, 119, 1311-1323	7.9	57

161	Poly(4-vinylpyridine isopentyl bromide) as inhibitor for corrosion of pure iron in molar sulphuric acid. *Progress in Organic Coatings*, **2003**, 46, 312-316	4.8	57
160	New bipyrazole derivatives as corrosion inhibitors for steel in hydrochloric acid solutions. *Materials Chemistry and Physics*, **2005**, 93, 281-285	4.4	57
159	One step synthesis of NiO nanoparticles via solid-state thermal decomposition at low-temperature of novel aqua(2,9-dimethyl-1,10-phenanthroline)NiCl2 complex. *International Journal of Molecular Sciences*, **2013**, 14, 23941-54	6.3	56
158	Poly(4-vinylpyridine-poly(3-oxide-ethylene) tosyle) as an inhibitor for iron in sulphuric acid at 80 °C. *Corrosion Science*, **2004**, 46, 2421-2430	6.8	56
157	Synergistic effect of iodide ions on the corrosion inhibition of steel in 0.5M H2SO4 by new chalcone derivatives. *Applied Surface Science*, **2006**, 252, 6236-6242	6.7	54
156	Thiophene derivatives as effective inhibitors for the corrosion of steel in 0.5 m H2SO4. *Journal of Applied Electrochemistry*, **2005**, 35, 1095-1101	2.6	52
155	A pyrazine derivative as corrosion inhibitor for steel in sulphuric acid solution. *Applied Surface Science*, **2005**, 242, 399-406	6.7	48
154	The inhibited effect of some tetrazolic compounds towards the corrosion of brass in nitric acid solution. *Applied Surface Science*, **2006**, 252, 2389-2395	6.7	47
153	The inhibitive effect of bipyrazolic derivatives on the corrosion of steel in hydrochloric acid solution. *Applied Surface Science*, **2005**, 252, 1378-1385	6.7	47
152	Study of the inhibition of the corrosion of copper and zinc in HNO3 solution by electrochemical technique and quantum chemical calculations. *Arabian Journal of Chemistry*, **2010**, 3, 55-60	5.9	44
151	Thiophene derivatives as effective inhibitors for the corrosion of steel in 0.5M H2SO4. *Progress in Organic Coatings*, **2004**, 49, 225-228	4.8	44
150	Corrosion inhibition of steel in 0.5 M H 2 SO 4 by [(2-pyridin-4-ylethyl)thio]acetic acid. *Applied Surface Science*, **2005**, 250, 50-56	6.7	44
149	Effect of some tripodal bipyrazolic compounds on C38 steel corrosion in hydrochloric acid solution. *Journal of Applied Electrochemistry*, **2010**, 40, 1575-1582	2.6	43
148	N-benzyl-N,N-bis[(3,5-dimethyl-1H-pyrazol-1-yl)methyl]amine as corrosion inhibitor of steel in 1 M HCl. *Materials Letters*, **2007**, 61, 799-804	3.3	42
147	Pyridine–pyrazole compound as inhibitor for steel in 1M HCl. *Applied Surface Science*, **2005**, 240, 341-348	6.7	42
146	Corrosion inhibition of steel in sulphuric acid by pyrrolidine derivatives. *Applied Surface Science*, **2006**, 252, 2178-2185	6.7	40
145	1,3-Bis(3-hyroxymethyl-5-methyl-1-pyrazole) propane as corrosion inhibitor for steel in 0.5 M H2SO4 solution. *Applied Surface Science*, **2005**, 252, 339-344	6.7	40
144	A Combined Experimental and Theoretical Study on the Corrosion Inhibition and Adsorption Behaviour of Quinoxaline Derivative During Carbon Steel Corrosion in Hydrochloric Acid. *Portugaliae Electrochimica Acta*, **2012**, 30, 405-417	2.4	40

143	Some new bipyrazole derivatives as corrosion inhibitors for C38 steel in acidic medium. *Research on Chemical Intermediates*, **2012**, 38, 2051-2063	2.8	37
142	Synthesis and characterization of composite based on cellulose acetate and hydroxyapatite application to the absorption of harmful substances. *Carbohydrate Polymers*, **2014**, 111, 41-6	10.3	36
141	SYNTHESIS, CHARACTERIZATION, AND COMPARATIVE STUDY OF PYRIDINE DERIVATIVES AS CORROSION INHIBITORS OF MILD STEEL IN HCl MEDIUM. *Chemical Engineering Communications*, **2009**, 196, 1536-1546	2.2	36
140	Corrosion Inhibition of Carbon Steel by Imidazolium and Pyridinium Cations Ionic Liquids in Acidic Environment. *Portugaliae Electrochimica Acta*, **2011**, 29, 375-389	2.4	36
139	CORROSION INHIBITION OF CARBON STEEL IN ACIDIC MEDIA BY BIFURCARIA BIFURCATA EXTRACT. *Chemical Engineering Communications*, **2009**, 196, 788-800	2.2	34
138	Anti-corrosive properties of Argan oil on C38 steel in molar HCl solution. *Journal of Saudi Chemical Society*, **2014**, 18, 19-25	4.3	32
137	The effect of poly(vinyl caprolactone-co-vinyl pyridine) and poly(vinyl imidazol-co-vinyl pyridine) on the corrosion of steel in H3PO4 media. *Journal of Applied Electrochemistry*, **2007**, 37, 819-826	2.6	32
136	Inhibition of pure iron by new synthesized tripyrazole derivatives in HCl solution. *Corrosion Science*, **2006**, 48, 2987-2997	6.8	31
135	5-Naphthylazo-8-hydroxyquinoline (5NA8HQ) as a novel corrosion inhibitor for mild steel in hydrochloric acid solution. *Research on Chemical Intermediates*, **2012**, 38, 1591-1607	2.8	30
134	DFT and quantum chemical investigation of molecular properties of substituted pyrrolidinones. *Arabian Journal of Chemistry*, **2012**, 5, 163-166	5.9	30
133	Inhibition of copper corrosion by bipyrazole compound in aerated 3% NaCl. *Journal of Saudi Chemical Society*, **2012**, 16, 413-418	4.3	29
132	Synthesis, characterization and the antimicrobial activity of new eco-friendly ionic liquids. *Chemosphere*, **2013**, 91, 1627-34	8.4	29
131	Inhibitive action of two bipyrazolic isomers towards corrosion of steel in 1 M HCl solution. *Applied Surface Science*, **2005**, 241, 326-334	6.7	29
130	New telechelic compounds as corrosion inhibitors for steel in 1M HCl. *Applied Surface Science*, **2005**, 249, 176-182	6.7	29
129	New bipyrazolic derivatives as corrosion inhibitors of steel in 1 M HCl. *Progress in Organic Coatings*, **2005**, 54, 170-174	4.8	29
128	Thermodynamic properties of Thymus satureioides essential oils as corrosion inhibitor of tinplate in 0.5 M HCl: chemical characterization and electrochemical study. *Green Chemistry Letters and Reviews*, **2010**, 3, 173-178	4.7	28
127	APPLICATION OF ESSENTIAL OIL OF ARTEMISIA HERBA ALBA AS GREEN CORROSION INHIBITOR FOR STEEL IN 0.5 M H2SO4. *Surface Review and Letters*, **2009**, 16, 49-54	1.1	28
126	Chemical composition and antioxidant activity of essential oils of Thymus broussonetii Boiss. and Thymus algeriensis Boiss. from Morocco. *Asian Pacific Journal of Tropical Disease*, **2014**, 4, 281-286		27

125	Comparative Study of Corrosion Inhibition on Mild Steel in HCl Medium by Three Green Compounds: Argania spinosa Press Cake, Kernels and Hulls Extracts. *Transactions of the Indian Institute of Metals*, **2013**, 66, 43-49	1.2	27
124	The effect of 1?,3,5,5?-tetramethyl-1?H-1,3?-bipyrazole on the corrosion of steel in 1.0 M hydrochloric acid. *Research on Chemical Intermediates*, **2011**, 37, 985-1007	2.8	27
123	Synthesis, characterization, and POM analysis of novel bioactive imidazolium-based ionic liquids. *Medicinal Chemistry Research*, **2015**, 24, 1387-1395	2.2	26
122	Corrosion inhibition of steel in molar HCl by triphenyltin2□thiophene carboxylate. *Arabian Journal of Chemistry*, **2011**, 4, 243-247	5.9	26
121	New synthesised diamine derivatives as corrosion inhibitors of steel in 0.5M H2SO4. *Progress in Organic Coatings*, **2005**, 53, 292-296	4.8	26
120	New eco-friendly 1-alkyl-3-(4-phenoxybutyl) imidazolium-based ionic liquids derivatives: a green ultrasound-assisted synthesis, characterization, antibacterial activity and POM analyses. *Molecules*, **2014**, 19, 11741-59	4.8	25
119	Argan hulls extract: green inhibitor of mild steel corrosion in 1 M HCl solution. *Research on Chemical Intermediates*, **2012**, 38, 1707-1717	2.8	25
118	Essential oil of □oeniculum vulgare□antioxidant and corrosion inhibitor on mild steel immersed in hydrochloric medium. *Anti-Corrosion Methods and Materials*, **2017**, 64, 563-572	0.8	24
117	Chemical composition and antioxidant activity of essential oils and solvent extracts of Ptychotis verticillata from Morocco. *Food and Chemical Toxicology*, **2011**, 49, 533-6	4.7	24
116	An investigation of carbon steel corrosion inhibition in hydrochloric acid medium by an environmentally friendly green inhibitor. *Research on Chemical Intermediates*, **2013**, 39, 2663-2677	2.8	23
115	The effect of some triazole derivatives as inhibitors for the corrosion of mild steel in 5 % hydrochloric acid. *Research on Chemical Intermediates*, **2013**, 39, 3089-3103	2.8	23
114	Inhibition of Mild Steel Corrosion by some Phenyltetrazole Substituted Compounds in Hydrochloric Acid. *Portugaliae Electrochimica Acta*, **2012**, 30, 53-65	2.4	23
113	Inhibition of mild steel corrosion in 5 % HCl solution by 5-(2-hydroxyphenyl)-1,2,4-triazole-3-thione. *Research on Chemical Intermediates*, **2013**, 39, 2777-2793	2.8	22
112	Poly(4-vinylpyridine-hexadecyl bromide) as corrosion inhibitor for mild steel in acid chloride solution. *Research on Chemical Intermediates*, **2012**, 38, 2309-2325	2.8	22
111	Theoretical approach to the corrosion inhibition efficiency of some quinoxaline derivatives of steel in acid media using the DFT method. *Research on Chemical Intermediates*, **2013**, 39, 1125-1133	2.8	20
110	Inhibition of corrosion of copper in nitric acid solution by four amino acids. *Research on Chemical Intermediates*, **2014**, 40, 991-1002	2.8	20
109	Synthesis of novel Cl2Co4L6 clusterusing 1-hydroxymethyl-3,5-dimethylpyrazole (LH) ligand: Crystal structure, spectral, thermal, Hirschfeld surface analysis and catalytic oxidation evaluation. *Journal of Molecular Structure*, **2020**, 1199, 126995	3.4	20
108	The Oil from Mentha rotundifolia as Green Inhibitor of Carbon Steel Corrosion in Hydrochloric Acid. *Chemical Engineering Communications*, **2016**, 203, 270-277	2.2	19

107	Chemical variability of Artemisia herba-alba Asso essential oils from East Morocco. *Chemical Papers*, **2010**, 64,	1.9	19
106	Inhibition of corrosion of mild steel in 1 M HCl by the essential oil or solvent extracts of Ptychotis verticillata. *Research on Chemical Intermediates*, **2015**, 41, 935-946	2.8	17
105	Investigation of inhibition by 6-bromo-3-nitroso-2-phenylimidazol[1,2-╫pyridine of the corrosion of C38 steel in 1 M HCl. *Research on Chemical Intermediates*, **2015**, 41, 913-925	2.8	17
104	Mentha pulegium extract as a natural product for the inhibition of corrosion. Part I: electrochemical studies. *Natural Product Research*, **2014**, 28, 1206-9	2.3	17
103	Synthesis of calixarene derivatives and their anticorrosive effect on steel in 1M HCl. *Pigment and Resin Technology*, **2007**, 36, 373-381	1	17
102	Towards Understanding the Anticorrosive Mechanism of Novel Surfactant Based on Mentha pulegium Oil as Eco-friendly Bio-source of Mild Steel in Acid Medium: a Combined DFT and Molecular Dynamics Investigation. *Chemical Research in Chinese Universities*, **2019**, 35, 85-100	2.2	16
101	Quantum chemical study of inhibition of the corrosion of mild steel in 1 M hydrochloric acid solution by newly synthesized benzamide derivatives. *Research on Chemical Intermediates*, **2014**, 40, 1069-1088	2.8	16
100	Trans/cis isomerization of [RuCl2{H2C=C(CH2PPh2)2)}(diamine)] complexes: synthesis, spectral, crystal structure and DFT calculations and catalytic activity in the hydrogenation of ╫unsaturated ketones. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 117, 250-8	4.4	16
99	Structural studies on Cd(II) complexes incorporating di-2-pyridyl ligand and the X-ray crystal structure of the chloroform solvated DPMNPH/CdI2 complex. *Inorganic Chemistry Communication*, **2014**, 43, 155-161	3.1	16
98	Adsorption and corrosion inhibition of mild steel in hydrochloric acid solution by verbena essential oil. *Research on Chemical Intermediates*, **2013**, 39, 973-989	2.8	16
97	Electrochemical degradation of buprofezin insecticide in aqueous solutions by anodic oxidation at boron-doped diamond electrode. *Research on Chemical Intermediates*, **2013**, 39, 505-516	2.8	16
96	Effect of the heat treatment on the corrosion behaviour of amorphous Fe□r□□□i alloy in 0.5M H2SO4. *Applied Surface Science*, **2006**, 252, 7921-7925	6.7	16
95	Adsorption and Corrosion Inhibition Behavior of C38 Steel by one Derivative of Quinoxaline in 1 M HCl. *Portugaliae Electrochimica Acta*, **2011**, 29, 57-68	2.4	16
94	Synergistic effect of potassium iodide in controlling the corrosion of steel in acid medium by Mentha pulegium extract. *Research on Chemical Intermediates*, **2015**, 41, 7973-7980	2.8	15
93	Experimental and theoretical study for corrosion inhibition of mild steel 1 M HCl solution by some new diaminopropanenitrile compounds. *Research on Chemical Intermediates*, **2012**, 38, 1669-1690	2.8	15
92	Inhibition effect of horehound (Marrubium vulgare L.) extract towards C38 steel corrosion in HCl solution. *Research on Chemical Intermediates*, **2013**, 39, 3291-3302	2.8	15
91	Synergistic effect of AM-4VP-9 copolymer and iodide ion on corrosion inhibition of mild steel in 1 M H2SO4. *Research on Chemical Intermediates*, **2013**, 39, 1753-1770	2.8	15
90	Comparative study of the effect of inorganic ions on the corrosion of Al 3003 and 6063 in carbonate solution. *Progress in Organic Coatings*, **2004**, 51, 113-117	4.8	15

89	Testing Natural Fenugreek as an Ecofriendly Inhibitor for Steel Corrosion in 1 M HCl. *Portugaliae Electrochimica Acta*, **2010**, 28, 165-172	2.4	15
88	Aqueous extracts of olive roots, stems, and leaves as eco-friendly corrosion inhibitor for steel in 1 MHCl medium. *International Journal of Industrial Chemistry*, **2015**, 6, 233-245	3.1	14
87	Effect of three 2-allyl-p-mentha-6,8-dien-2-ols on inhibition of mild steel corrosion in 1M HCl. *Arabian Journal of Chemistry*, **2014**, 7, 680-686	5.9	14
86	Study of a cysteine derivative as a corrosion inhibitor for carbon steel in phosphoric acid solution. *Research on Chemical Intermediates*, **2014**, 40, 801-815	2.8	14
85	Peptidic compound as corrosion inhibitor for brass in nitric acid solution. *Progress in Organic Coatings*, **2004**, 50, 144-147	4.8	14
84	Corrosion behaviour of steel in concentrated phosphoric acid solutions. *Applied Surface Science*, **2005**, 252, 1657-1661	6.7	13
83	Inhibition de la corrosion de l'alliage d'aluminium 6063 au moyen de composé inorganiques dans une solution de chlorure de sodium à 3 %. *Canadian Journal of Chemistry*, **2002**, 80, 106-112	0.9	13
82	Influence of the nature of the anchoring group on electron injection processes at dye-titania interfaces. *Physical Chemistry Chemical Physics*, **2017**, 19, 29389-29401	3.6	12
81	Theoretical study of the corrosion inhibition of some bipyrazolic derivatives: a conceptual DFT investigation. *Research on Chemical Intermediates*, **2012**, 38, 2009-2023	2.8	12
80	Synthesis, spectroscopic characterization and catalytic significance of Palladium(II) complexes derived from 1,1 bis(diphenylphosphinomethyl)ethane. *Journal of Molecular Structure*, **2011**, 1002, 107-112	3.4	12
79	Etude du pouvoir inhibiteur de la 2,9-chlorométhyl-1,10-phénanthroline pour la corrosion d'un acier doux en milieu HCL 1M A 90 °CStudy of the inhibiting power of 2,9-chloromethyl-1,10-phenanthroline for the corrosion of mild steel in molar hydrochloric acid solution at 90°C. *Annales De Chimie: Science Des Materiaux*, **2002**, 27, 71-80	2.1	12
78	Inhibition Effects on the Corrosion of Mild Steel in 1 M HCl by 1,1'-(2,2'-(2,2'-oxybis(ethane-2,1-diyl)bis(sulfanediyl)) bis(ethane-2,1-diyl))diazepan-2-one. *Portugaliae Electrochimica Acta*, **2014**, 32, 35-50	2.4	12
77	Adsorption and corrosion inhibitive properties of piperidine derivatives on mild steel in phosphoric acid medium. *Research on Chemical Intermediates*, **2014**, 40, 1201-1221	2.8	11
76	Catechol oxidation: activity studies using electron-rich nitrogen-based ligands. *Research on Chemical Intermediates*, **2012**, 38, 2427-2433	2.8	11
75	Novel calixarene derivatives as inhibitors of mild C-38 steel corrosion in 1 M HCl. *Journal of Applied Electrochemistry*, **2008**, 38, 1253-1258	2.6	11
74	Thermodynamic Study and Characterization by Electrochemical Technique of Pyrazole Derivatives as Corrosion Inhibitors for C38 Steel in Molar Hydrochloric Acid. *Portugaliae Electrochimica Acta*, **2013**, 31, 53-78	2.4	11
73	Inhibition effect of E and Z conformations of 2-pyridinealdazine on mild steel corrosion in phosphoric acid. *Anti-Corrosion Methods and Materials*, **2017**, 64, 23-35	0.8	10
72	Inhibition of copper corrosion in acid solution by N-1-naphthylethylenediamine dihydrochloride monomethanolate: experimental and theoretical study: part-1. *Research on Chemical Intermediates*, **2012**, 38, 1079-1089	2.8	10

71	Theoretical study using DFT calculations on inhibitory action of four pyridazines on corrosion of copper in nitric acid. *Research on Chemical Intermediates*, **2012**, 38, 2327-2334	2.8	10
70	Synthesis, spectral, thermal, X-ray single crystal of new RuCl(dppb)diamine complexes and their application in hydrogenation of Cinnamic aldehyde. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 95, 374-81	4.4	10
69	Piperazine derivatives as inhibitors of the corrosion of mild steel in 3.9 M HCl. *Journal of Applied Electrochemistry*, **2009**, 39, 1075-1079	2.6	10
68	Synthesis and anticorrosive effect of epoxy-allylmenthols on steel in molar hydrochloric acid. *Pigment and Resin Technology*, **2007**, 36, 293-298	1	10
67	Inhibitive Action of Argan Press Cake Extract on the Corrosion of Steel in Acidic Media. *Portugaliae Electrochimica Acta*, **2012**, 30, 267-279	2.4	10
66	Novel phenethylimidazolium based ionic liquids: Design, microwave synthesis, in-silico, modeling and biological evaluation studies. *Journal of Molecular Liquids*, **2020**, 315, 113778	6	10
65	A phytotoxic impact of phenolic compounds in olive oil mill wastewater on fenugreek "Trigonella foenum-graecum". *Environmental Monitoring and Assessment*, **2019**, 191, 405	3.1	9
64	Antioxidant activity and effect of quince pulp extract on the corrosion of C-steel in 1M HCl. *Research on Chemical Intermediates*, **2015**, 41, 7463-7480	2.8	9
63	Adsorption and inhibition effect of 5-phenyl-1,2,4-triazole-3-thione on C38 steel corrosion in 1 M HCl. *Research on Chemical Intermediates*, **2015**, 41, 4617-4634	2.8	9
62	Inhibitive effect of imidazopyridine derivative towards corrosion of C38 steel in hydrochloric acid solution. *Research on Chemical Intermediates*, **2013**, 39, 2369-2377	2.8	9
61	New catalysts for the chemoselective reduction of α,β-unsaturated ketones: Synthesis, spectral, structural and DFT characterizations of mixed ruthenium(II) complexes containing 2-ethene-1,3-bis(diphenylphosphino)propane and diamine ligands. *Polyhedron*, **2013**, 63, 182-188	2.7	9
60	Theoretical investigation of inhibition of the corrosion of A106 steel in NaCl solution by di-n-butyl bis(thiophene-2-carboxylato-O,O?)tin(IV). *Research on Chemical Intermediates*, **2014**, 40, 569-586	2.8	9
59	Thermodynamic study of metal corrosion and inhibitor adsorption processes in copper/N-1-naphthylethylenediamine dihydrochloride monomethanolate/nitric acid system: part 2. *Research on Chemical Intermediates*, **2012**, 38, 1655-1668	2.8	9
58	TWO DIPODAL PYRIDIN-PYRAZOL DERIVATIVES AS EFFICIENT INHIBITORS OF MILD STEEL CORROSION IN HCL SOLUTION PART I: ELECTROCHEMICAL STUDY. *Surface Review and Letters*, **2011**, 18, 303-313	1.1	9
57	Effect of pulegone and pulegone oxide on the corrosion of steel in 1 M HCl. *Monatshefte Für Chemie*, **2008**, 139, 1417-1422	1.4	9
56	The Synergistic Effect of Chloride Ion and 1,5-Diaminonaphthalene on the Corrosion Inhibition of Mild Steel in 0.5 M Sulfuric Acid: Experimental and Theoretical Insights.. *Surfaces and Interfaces*, **2018**, 13, 168-177	4.1	9
55	Synthesis, characterization and study of methyl 3-(2-oxo-2H-1,4-benzoxazin-3-yl) propanoate as new corrosion inhibitor for carbon steel in 1M H2SO4 solution. *Research on Chemical Intermediates*, **2016**, 42, 987-996	2.8	8
54	A comparative study of electrochemical oxidation of methidation organophosphorous pesticide on SnO2 and boron-doped diamond anodes. *Chemistry Central Journal*, **2015**, 9, 59		8

53	Novel di-μ-chloro-bis[chloro(4,7-dimethyl-1,10-phenanthroline)cadmium(II)] dimer complex: synthesis, spectral, thermal, and crystal structure studies. *Research on Chemical Intermediates*, **2013**, 39, 2451-2461	2.8	8
52	Carob seed oil: an efficient inhibitor of C38 steel corrosion in hydrochloric acid. *International Journal of Industrial Chemistry*, **2012**, 3, 25	3.1	8
51	Effect of substituted methyl group by phenyl group in pyridazine ring on the corrosion inhibition of mild steel in 1.0 M HCl. *Anti-Corrosion Methods and Materials*, **2018**, 65, 87-96	0.8	8
50	X-ray single-crystal structure of a novel di-μ-chloro-bis[chloro(2,9-dimethyl-1,10-phenanthroline)nickel(II)] complex: synthesis, and spectral and thermal studies. *Research on Chemical Intermediates*, **2013**, 39, 4011-4020	2.8	7
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