

Eno E Ebenso

List of Publications by Year in descending order

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342
papers

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7069

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citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids as green and sustainable corrosion inhibitors for metals and alloys: An overview. <i>Journal of Molecular Liquids</i> , 2017, 233, 403-414.	2.3	431
2	Inhibitory action of <i>Phyllanthus amarus</i> extracts on the corrosion of mild steel in acidic media. <i>Corrosion Science</i> , 2008, 50, 2310-2317.	3.0	419
3	Adsorption Behavior of Glucosamine-Based, Pyrimidine-Fused Heterocycles as Green Corrosion Inhibitors for Mild Steel: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11598-11611.	1.5	401
4	Some Quinoxalin-6-yl Derivatives as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16004-16019.	1.5	381
5	Organic corrosion inhibitors for industrial cleaning of ferrous and non-ferrous metals in acidic solutions: A review. <i>Journal of Molecular Liquids</i> , 2018, 256, 565-573.	2.3	379
6	An overview on plant extracts as environmental sustainable and green corrosion inhibitors for metals and alloys in aggressive corrosive media. <i>Journal of Molecular Liquids</i> , 2018, 266, 577-590.	2.3	363
7	Quantum chemical studies on the corrosion inhibition of some sulphonamides on mild steel in acidic medium. <i>Corrosion Science</i> , 2009, 51, 35-47.	3.0	318
8	Inhibition of mild steel corrosion in acidic medium using synthetic and naturally occurring polymers and synergistic halide additives. <i>Corrosion Science</i> , 2008, 50, 1998-2006.	3.0	277
9	Substituents effect on corrosion inhibition performance of organic compounds in aggressive ionic solutions: A review. <i>Journal of Molecular Liquids</i> , 2018, 251, 100-118.	2.3	276
10	Electrochemical, Theoretical, and Surface Morphological Studies of Corrosion Inhibition Effect of Green Naphthyridine Derivatives on Mild Steel in Hydrochloric Acid. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3408-3419.	1.5	270
11	Experimental, quantum chemical and Monte Carlo simulation studies on the corrosion inhibition of some alkyl imidazolium ionic liquids containing tetrafluoroborate anion on mild steel in acidic medium. <i>Journal of Molecular Liquids</i> , 2015, 211, 105-118.	2.3	240
12	Molecular dynamics and Monte Carlo simulations as powerful tools for study of interfacial adsorption behavior of corrosion inhibitors in aqueous phase: A review. <i>Journal of Molecular Liquids</i> , 2018, 260, 99-120.	2.3	240
13	Gum arabic as a potential corrosion inhibitor for aluminium in alkaline medium and its adsorption characteristics. <i>Anti-Corrosion Methods and Materials</i> , 2006, 53, 277-282.	0.6	207
14	Adsorption and Quantum Chemical Studies on the Inhibition Potentials of Some Thiosemicarbazides for the Corrosion of Mild Steel in Acidic Medium. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2473-2498.	1.8	205
15	Evaluation of the inhibitory effect of methylene blue dye on the corrosion of aluminium in hydrochloric acid. <i>Materials Chemistry and Physics</i> , 2004, 87, 394-401.	2.0	197
16	Experimental and Quantum Chemical Studies of Some Bis(trifluoromethyl-sulfonyl) Imide Imidazolium-Based Ionic Liquids as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13282-13299.	1.8	188
17	Synergistic effect of halide ions on the corrosion inhibition of aluminium in H ₂ SO ₄ using 2-acetylphenothiazine. <i>Materials Chemistry and Physics</i> , 2003, 79, 58-70.	2.0	186
18	Experimental, quantum chemical and Monte Carlo simulation studies of 3,5-disubstituted-4-amino-1,2,4-triazoles as corrosion inhibitors on mild steel in acidic medium. <i>Journal of Molecular Liquids</i> , 2016, 218, 281-293.	2.3	176

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19	Choline based ionic liquids as sustainable corrosion inhibitors on mild steel surface in acidic medium: Gravimetric, electrochemical, surface morphology, DFT and Monte Carlo simulation studies. <i>Applied Surface Science</i> , 2018, 457, 134-149.	3.1	173
20	The synergistic effect of polyacrylamide and iodide ions on the corrosion inhibition of mild steel in H ₂ SO ₄ . <i>Materials Chemistry and Physics</i> , 2007, 106, 387-393.	2.0	162
21	Metronidazole as environmentally safe corrosion inhibitor for mild steel in 0.5M HCl: Experimental and theoretical investigation. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 431-439.	3.3	158
22	2,4-Diamino-5-(phenylthio)-5H-chromeno [2,3-b] pyridine-3-carbonitriles as green and effective corrosion inhibitors: gravimetric, electrochemical, surface morphology and theoretical studies. <i>RSC Advances</i> , 2016, 6, 53933-53948.	1.7	155
23	Quantum chemical studies of some rhodanine azosulpha drugs as corrosion inhibitors for mild steel in acidic medium. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1003-1018.	1.0	154
24	Effect of molecular structure on the efficiency of amides and thiosemicarbazones used for corrosion inhibition of mild steel in hydrochloric acid. <i>Materials Chemistry and Physics</i> , 1999, 60, 79-90.	2.0	153
25	Corrosion inhibitors for ferrous and non-ferrous metals and alloys in ionic sodium chloride solutions: A review. <i>Journal of Molecular Liquids</i> , 2017, 248, 927-942.	2.3	151
26	Corrosion inhibition performance of newly synthesized 5-alkoxymethyl-8-hydroxyquinoline derivatives for carbon steel in 1 M HCl solution: experimental, DFT and Monte Carlo simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20167-20187.	1.3	150
27	5-(Phenylthio)-3H-pyrrole-4-carbonitriles as effective corrosion inhibitors for mild steel in 1 M HCl: Experimental and theoretical investigation. <i>Journal of Molecular Liquids</i> , 2015, 212, 209-218.	2.3	149
28	<sc>Proline-promoted synthesis of 2-amino-4-arylquinoline-3-carbonitriles as sustainable corrosion inhibitors for mild steel in 1 M HCl: experimental and computational studies. <i>RSC Advances</i> , 2015, 5, 85417-85430.	1.7	146
29	Experimental and theoretical studies on some selected ionic liquids with different cations/anions as corrosion inhibitors for mild steel in acidic medium. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 64, 252-268.	2.7	145
30	Aqueous phase environmental friendly organic corrosion inhibitors derived from one step multicomponent reactions: A review. <i>Journal of Molecular Liquids</i> , 2019, 275, 18-40.	2.3	145
31	Epoxy resins as anticorrosive polymeric materials: A review. <i>Reactive and Functional Polymers</i> , 2020, 156, 104741.	2.0	144
32	Adsorption and corrosion inhibition properties of N-{n-[1-R-5-(quinoxalin-6-yl)-4,5-dihydropyrazol-3-yl]phenyl}methanesulfonamides on mild steel in 1 M HCl: experimental and theoretical studies. <i>RSC Advances</i> , 2016, 6, 86782-86797.	1.7	141
33	Challenges and advantages of using plant extract as inhibitors in modern corrosion inhibition systems: Recent advancements. <i>Journal of Molecular Liquids</i> , 2021, 321, 114666.	2.3	140
34	New pyrimidine derivatives as efficient organic inhibitors on mild steel corrosion in acidic medium: Electrochemical, SEM, EDX, AFM and DFT studies. <i>Journal of Molecular Liquids</i> , 2015, 211, 135-145.	2.3	139
35	The Inhibition of aluminium corrosion in hydrochloric acid solution by exudate gum from <i>Raphia hookeri</i> . <i>Desalination</i> , 2009, 247, 561-572.	4.0	135
36	Corrosion inhibition of mild steel in 1M HCl by D-glucose derivatives of dihydropyrido [2,3-d:6,5-d']dipyrimidine-2, 4, 6, 8(1H,3H, 5H,7H)-tetraone. <i>Scientific Reports</i> , 2017, 7, 44432.	1.6	134

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37	5-Arylpyrimido-[4,5-b]quinoline-diones as new and sustainable corrosion inhibitors for mild steel in 1 M HCl: a combined experimental and theoretical approach. <i>RSC Advances</i> , 2016, 6, 15639-15654.	1.7	133
38	Electrochemical and Quantum Chemical Investigation of Some Azine and Thiazine Dyes as Potential Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12940-12958.	1.8	132
39	Theoretical studies of some sulphonamides as corrosion inhibitors for mild steel in acidic medium. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2614-2636.	1.0	131
40	Recent developments in sustainable corrosion inhibitors: design, performance and industrial scale applications. <i>Materials Advances</i> , 2021, 2, 3806-3850.	2.6	129
41	Eco-friendly corrosion inhibitors: the inhibitive action of Delonix Regia extract for the corrosion of aluminium in acidic media. <i>Anti-Corrosion Methods and Materials</i> , 2007, 54, 219-224.	0.6	127
42	Zinc Oxide Nanocomposites of Selected Polymers: Synthesis, Characterization, and Corrosion Inhibition Studies on Mild Steel in HCl Solution. <i>ACS Omega</i> , 2017, 2, 8421-8437.	1.6	125
43	Green synthesis of ZnO nanoparticles using aqueous <i>Brassica oleracea</i> L. var. <i>italica</i> and the photocatalytic activity. <i>Green Chemistry Letters and Reviews</i> , 2019, 12, 444-457.	2.1	125
44	Experimental and computational studies on propanone derivatives of quinoxalin-6-yl-4,5-dihydropyrazole as inhibitors of mild steel corrosion in hydrochloric acid. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 104-116.	5.0	123
45	Ginkgo biloba fruit extract as an eco-friendly corrosion inhibitor for J55 steel in CO ₂ saturated 3.5% NaCl solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 24, 219-228.	2.9	122
46	8-Hydroxyquinoline based chitosan derived carbohydrate polymer as biodegradable and sustainable acid corrosion inhibitor for mild steel: Experimental and computational analyses. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 645-655.	3.6	120
47	Electrochemical sensor for the detection of dopamine in real samples using polyaniline/NiO, ZnO, and Fe ₃ O ₄ nanocomposites on glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2018, 818, 236-249.	1.9	119
48	Sulfur and phosphorus heteroatom-containing compounds as corrosion inhibitors: An overview. <i>Heteroatom Chemistry</i> , 2018, 29, .	0.4	116
49	Quinoxaline derivatives as corrosion inhibitors for mild steel in hydrochloric acid medium: Electrochemical and quantum chemical studies. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 76, 109-126.	1.3	111
50	Synthesis, characterization and corrosion inhibition studies of N-phenyl-benzamides on the acidic corrosion of mild steel: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2018, 251, 317-332.	2.3	111
51	Inhibitive action of Carica papaya extracts on the corrosion of mild steel in acidic media and their adsorption characteristics. <i>Pigment and Resin Technology</i> , 2007, 36, 134-140.	0.5	110
52	3-Amino alkylated indoles as corrosion inhibitors for mild steel in 1M HCl: Experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2016, 219, 647-660.	2.3	110
53	Adsorption and Corrosion Inhibition Studies of Some Selected Dyes as Corrosion Inhibitors for Mild Steel in Acidic Medium: Gravimetric, Electrochemical, Quantum Chemical Studies and Synergistic Effect with Iodide Ions. <i>Molecules</i> , 2015, 20, 16004-16029.	1.7	109
54	Adsorption, synergistic inhibitive effect and quantum chemical studies of ampicillin (AMP) and halides for the corrosion of mild steel in H ₂ SO ₄ . <i>Journal of Applied Electrochemistry</i> , 2010, 40, 445-456.	1.5	108

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55	Anticorrosion performance of three newly synthesized isatin derivatives on carbon steel in hydrochloric acid pickling environment: Electrochemical, surface and theoretical studies. <i>Journal of Molecular Liquids</i> , 2017, 246, 302-316.	2.3	108
56	Leaves extract of <i>Ananas sativum</i> as green corrosion inhibitor for aluminium in hydrochloric acid solutions. <i>Green Chemistry Letters and Reviews</i> , 2010, 3, 61-68.	2.1	106
57	Computational simulation and statistical analysis on the relationship between corrosion inhibition efficiency and molecular structure of some hydrazine derivatives in phosphoric acid on mild steel surface. <i>Applied Surface Science</i> , 2019, 491, 707-722.	3.1	106
58	Eco-friendly corrosion inhibitors: inhibitive action of ethanol extracts of <i>Garcinia kola</i> for the corrosion of mild steel in H ₂ SO ₄ solutions. <i>Pigment and Resin Technology</i> , 2007, 36, 299-305.	0.5	103
59	Corrosion Inhibition of Carbon Steel in HCl Solution by Some Plant Extracts. <i>International Journal of Corrosion</i> , 2012, 2012, 1-20.	0.6	103
60	Electrocatalytic oxidation of Epinephrine and Norepinephrine at metal oxide doped phthalocyanine/MWCNT composite sensor. <i>Scientific Reports</i> , 2016, 6, 26938.	1.6	103
61	Corrosion inhibition of mild steel in acidic media by some organic dyes. <i>Materials Letters</i> , 2005, 59, 2163-2165.	1.3	100
62	Corrosion Inhibition and Adsorption Properties of Methocarbamol on Mild Steel in Acidic Medium. <i>Portugaliae Electrochimica Acta</i> , 2009, 27, 13-22.	0.4	98
63	Experimental, quantum chemical calculations, and molecular dynamic simulations insight into the corrosion inhibition properties of 2-(6-methylpyridin-2-yl)oxazolo[5,4-f][1,10]phenanthroline on mild steel. <i>Research on Chemical Intermediates</i> , 2013, 39, 1927-1948.	1.3	97
64	Aryl sulfonamidomethylphosphonates as new class of green corrosion inhibitors for mild steel in 1M HCl: Electrochemical, surface and quantum chemical investigation. <i>Journal of Molecular Liquids</i> , 2015, 209, 306-319.	2.3	96
65	DGEBA-polyaminoamide as effective anti-corrosive material for 15CDV6 steel in NaCl medium: Computational and experimental studies. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48402.	1.3	94
66	Water-soluble polymers as corrosion inhibitors. <i>Pigment and Resin Technology</i> , 2006, 35, 346-352.	0.5	93
67	Electrochemical, thermodynamic, surface and theoretical investigation of 2-aminobenzene-1,3-dicarbonitriles as green corrosion inhibitor for aluminum in 0.5M NaOH. <i>Journal of Molecular Liquids</i> , 2015, 209, 767-778.	2.3	93
68	Adsorption, Thermodynamic and Quantum Chemical Studies of 1-hexyl-3-methylimidazolium Based Ionic Liquids as Corrosion Inhibitors for Mild Steel in HCl. <i>Materials</i> , 2015, 8, 3607-3632.	1.3	92
69	Experimental and theoretical studies on the corrosion inhibition of mild steel by some sulphonamides in aqueous HCl. <i>RSC Advances</i> , 2015, 5, 28743-28761.	1.7	92
70	Experimental, density functional theory and molecular dynamics supported adsorption behavior of environmental benign imidazolium based ionic liquids on mild steel surface in acidic medium. <i>Journal of Molecular Liquids</i> , 2019, 273, 1-15.	2.3	92
71	Epoxy pre-polymers as new and effective materials for corrosion inhibition of carbon steel in acidic medium: Computational and experimental studies. <i>Scientific Reports</i> , 2019, 9, 11715.	1.6	90
72	Phthalocyanine Doped Metal Oxide Nanoparticles on Multiwalled Carbon Nanotubes Platform for the detection of Dopamine. <i>Scientific Reports</i> , 2017, 7, 43181.	1.6	89

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73	Corrosion inhibition of carbon steel in aggressive acidic media with 1-(2-(4-chlorophenyl)-2-oxoethyl)pyridazinium bromide. <i>Journal of Molecular Liquids</i> , 2015, 211, 1000-1008.	2.3	88
74	Experimental and theoretical investigation of the inhibitory effect of new pyridazine derivatives for the corrosion of mild steel in 1M HCl. <i>Journal of Molecular Structure</i> , 2017, 1136, 127-139.	1.8	87
75	Corrosion Inhibition of Aluminium Using Exudate Gum from <i>Pachylobus edulis</i> in the Presence of Halide Ions in HCl. <i>E-Journal of Chemistry</i> , 2008, 5, 355-364.	0.4	86
76	Gravimetric, Electrochemical, Surface Morphology, DFT, and Monte Carlo Simulation Studies on Three N-Substituted 2-Aminopyridine Derivatives as Corrosion Inhibitors of Mild Steel in Acidic Medium. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11870-11882.	1.5	85
77	Studies of the anti-corrosive effect of <i>Raphia hookeri</i> exudate gum-halide mixtures for aluminium corrosion in acidic medium. <i>Pigment and Resin Technology</i> , 2008, 37, 173-182.	0.5	84
78	Transition metal nanoparticles in ionic liquids: Synthesis and stabilization. <i>Journal of Molecular Liquids</i> , 2019, 276, 826-849.	2.3	83
79	Adsorption characteristics of Iota-carrageenan and Inulin biopolymers as potential corrosion inhibitors at mild steel/sulphuric acid interface. <i>Journal of Molecular Liquids</i> , 2017, 232, 9-19.	2.3	82
80	Experimental, quantum chemical and molecular dynamic simulations studies on the corrosion inhibition of mild steel by some carbazole derivatives. <i>Scientific Reports</i> , 2017, 7, 2436.	1.6	82
81	Inhibitory action of methyl and phenyl thiosemicarbazone derivatives on the corrosion of mild steel in hydrochloric acid. <i>Materials Chemistry and Physics</i> , 1995, 40, 87-93.	2.0	80
82	Electrochemical and surface studies of some Porphines as corrosion inhibitor for J55 steel in sweet corrosion environment. <i>Applied Surface Science</i> , 2015, 359, 331-339.	3.1	80
83	Electrochemical, thermodynamic and quantum chemical studies of synthesized benzimidazole derivatives as corrosion inhibitors for N80 steel in hydrochloric acid. <i>Journal of Molecular Liquids</i> , 2016, 213, 122-138.	2.3	80
84	Electrochemical determination of serotonin in urine samples based on metal oxide nanoparticles/MWCNT on modified glassy carbon electrode. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 17-27.	2.2	80
85	Electrochemical, surface and computational studies on the inhibition performance of some newly synthesized 8-hydroxyquinoline derivatives containing benzimidazole moiety against the corrosion of carbon steel in phosphoric acid environment. <i>Journal of Materials Research and Technology</i> , 2020, 9, 727-748.	2.6	80
86	Antimicrobial and Wound Healing Properties of Polyacrylonitrile-Moringa Extract Nanofibers. <i>ACS Omega</i> , 2018, 3, 4791-4797.	1.6	79
87	Corrosion mitigation of J55 steel in 3.5% NaCl solution by a macrocyclic inhibitor. <i>Applied Surface Science</i> , 2015, 356, 341-347.	3.1	78
88	Experimental and quantum chemical studies of functionalized tetrahydropyridines as corrosion inhibitors for mild steel in 1M hydrochloric acid. <i>Results in Physics</i> , 2018, 9, 1481-1493.	2.0	78
89	Molecular modelling of compounds used for corrosion inhibition studies: a review. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19987-20027.	1.3	78
90	Biopolymer from Tragacanth Gum as a Green Corrosion Inhibitor for Carbon Steel in 1 M HCl Solution. <i>ACS Omega</i> , 2017, 2, 3997-4008.	1.6	77

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91	Fabrication of polymer based epoxy resin as effective anti-corrosive coating for steel: Computational modeling reinforced experimental studies. <i>Surfaces and Interfaces</i> , 2020, 18, 100454.	1.5	77
92	Porphyryns as Corrosion Inhibitors for N80 Steel in 3.5% NaCl Solution: Electrochemical, Quantum Chemical, QSAR and Monte Carlo Simulations Studies. <i>Molecules</i> , 2015, 20, 15122-15146.	1.7	76
93	Anti-corrosive properties of 4-amino-3,5-bis(disubstituted)-1,2,4-triazole derivatives on mild steel corrosion in 2 M H ₃ PO ₄ solution: Experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2016, 216, 874-886.	2.3	76
94	Dissolution of cellulose in ionic liquids and their mixed cosolvents: A review. <i>Sustainable Chemistry and Pharmacy</i> , 2019, 13, 100162.	1.6	76
95	Quantum chemical study of the inhibition of the corrosion of mild steel in H ₂ SO ₄ by some antibiotics. <i>Journal of Molecular Modeling</i> , 2009, 15, 1085-1092.	0.8	75
96	Corrosion inhibition and adsorption behaviour of <i>Ocimum basilicum</i> extract on aluminium. <i>Pigment and Resin Technology</i> , 2006, 35, 63-70.	0.5	74
97	Effect of halide ions on the corrosion inhibition of aluminium in alkaline medium using polyvinyl alcohol. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2810-2816.	1.3	74
98	Polyethylene glycol and polyvinyl alcohol as corrosion inhibitors for aluminium in acidic medium. <i>Journal of Applied Polymer Science</i> , 2007, 105, 3363-3370.	1.3	74
99	Electrochemical detection of Epinephrine using Polyaniline nanocomposite films doped with TiO ₂ and RuO ₂ Nanoparticles on Multi-walled Carbon Nanotube. <i>Electrochimica Acta</i> , 2017, 243, 331-348.	2.6	74
100	Hybrid nanocomposite from aniline and CeO ₂ nanoparticles: Surface protective performance on mild steel in acidic environment. <i>Applied Surface Science</i> , 2015, 330, 207-215.	3.1	73
101	Investigation of the adsorption characteristics of some selected sulphonamide derivatives as corrosion inhibitors at mild steel/hydrochloric acid interface: Experimental, quantum chemical and QSAR studies. <i>Journal of Molecular Liquids</i> , 2016, 215, 763-779.	2.3	73
102	An Exploration about the Interaction of Mild Steel with Hydrochloric Acid in the Presence of N-(Benzo[d]thiazole-2-yl)-1-phenylethan-1-imines. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22897-22917.	1.5	73
103	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. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14315-14327.	1.8	71
104	Non-toxic Schiff bases as efficient corrosion inhibitors for mild steel in 1 M HCl: Electrochemical, AFM, FE-SEM and theoretical studies. <i>Journal of Molecular Liquids</i> , 2018, 250, 88-99.	2.3	71
105	Silver Nanoparticles Mediated by <i>Costus afer</i> Leaf Extract: Synthesis, Antibacterial, Antioxidant and Electrochemical Properties. <i>Molecules</i> , 2017, 22, 701.	1.7	70
106	Effect of halide ions on the corrosion inhibition of mild steel in acidic medium using polyvinyl alcohol. <i>Pigment and Resin Technology</i> , 2006, 35, 284-292.	0.5	69
107	Investigation of adsorption characteristics of N,N'-[(methylimino)dimethylidene]di-2,4-xylidine as corrosion inhibitor at mild steel/sulphuric acid interface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 463-472.	2.7	69
108	Experimental and quantum chemical studies of synthesized triazine derivatives as an efficient corrosion inhibitor for N80 steel in acidic medium. <i>Journal of Molecular Liquids</i> , 2015, 212, 151-167.	2.3	69

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109	Microwave and ultrasound irradiations for the synthesis of environmentally sustainable corrosion inhibitors: An overview. <i>Sustainable Chemistry and Pharmacy</i> , 2018, 10, 134-147.	1.6	69
110	Epoxy resins and their zinc composites as novel anti-corrosive materials for copper in 3% sodium chloride solution: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 315, 113757.	2.3	69
111	Highly functionalized epoxy macromolecule as an anti-corrosive material for carbon steel: Computational (DFT, MDS), surface (SEM-EDS) and electrochemical (OCP, PDP, EIS) studies. <i>Journal of Molecular Liquids</i> , 2020, 302, 112535.	2.3	69
112	Imidazoles as highly effective heterocyclic corrosion inhibitors for metals and alloys in aqueous electrolytes: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 341-358.	2.7	68
113	Molecular structural aspects of organic corrosion inhibitors: Influence of CN and NO_2 substituents on designing of potential corrosion inhibitors for aqueous media. <i>Journal of Molecular Liquids</i> , 2020, 316, 113874.	2.3	67
114	Highly durable macromolecular epoxy resin as anticorrosive coating material for carbon steel in 3% NaCl: Computational supported experimental studies. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49003.	1.3	66
115	Synthesis and application of new acetohydrazide derivatives as a corrosion inhibition of mild steel in acidic medium: Insight from electrochemical and theoretical studies. <i>Journal of Molecular Liquids</i> , 2015, 208, 322-332.	2.3	65
116	Pyridine based N-heterocyclic compounds as aqueous phase corrosion inhibitors: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 265-277.	2.7	65
117	A Green and Sustainable Approach for Mild Steel Acidic Corrosion Inhibition Using Leaves Extract: Experimental and DFT Studies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	1.2	63
118	Quinoline and its derivatives as corrosion inhibitors: A review. <i>Surfaces and Interfaces</i> , 2020, 21, 100634.	1.5	63
119	Comparative Investigation of Corrosion-Mitigating Behavior of Thiadiazole-Derived Bis-Schiff Bases for Mild Steel in Acid Medium: Experimental, Theoretical, and Surface Study. <i>ACS Omega</i> , 2020, 5, 13503-13520.	1.6	63
120	Rheological, electrochemical, surface, DFT and molecular dynamics simulation studies on the anticorrosive properties of new epoxy monomer compound for steel in 1M HCl solution. <i>RSC Advances</i> , 2019, 9, 4454-4462.	1.7	62
121	Application of new isonicotinamides as a corrosion inhibitor on mild steel in acidic medium: Electrochemical, SEM, EDX, AFM and DFT investigations. <i>Journal of Molecular Liquids</i> , 2015, 212, 686-698.	2.3	60
122	$\text{N,N}'$ -Dialkylcystine Gemini and Monomeric N -Alkyl Cysteine Surfactants as Corrosion Inhibitors on Mild Steel Corrosion in 1 M HCl Solution: A Comparative Study. <i>ACS Omega</i> , 2017, 2, 5691-5707.	1.6	60
123	Density and speed of sound measurements of imidazolium-based ionic liquids with acetonitrile at various temperatures. <i>Journal of Molecular Liquids</i> , 2014, 200, 160-167.	2.3	59
124	Poly (glycine) modified carbon paste electrode for simultaneous determination of catechol and hydroquinone: A voltammetric study. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 730-736.	1.9	57
125	Experimental and computational investigations on the anti-corrosive and adsorption behavior of 7-N,N'-dialkyaminomethyl-8-Hydroxyquinolines on C40E steel surface in acidic medium. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 330-344.	5.0	57
126	Synthesized photo-cross-linking chalcones as novel corrosion inhibitors for mild steel in acidic medium: experimental, quantum chemical and Monte Carlo simulation studies. <i>RSC Advances</i> , 2015, 5, 76675-76688.	1.7	56

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127	Anticorrosive properties of Hexa (3-methoxy propan-1,2-diol) cyclotri-phosphazene compound for carbon steel in 3% NaCl medium: gravimetric, electrochemical, DFT and Monte Carlo simulation studies. <i>Heliyon</i> , 2019, 5, e01340.	1.4	56
128	Epoxy coating as effective anti-corrosive polymeric material for aluminum alloys: Formulation, electrochemical and computational approaches. <i>Journal of Molecular Liquids</i> , 2022, 346, 117886.	2.3	55
129	Pyrazole derivatives as environmental benign acid corrosion inhibitors for mild steel: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 298, 111943.	2.3	54
130	Computational Modeling: Theoretical Predictive Tools for Designing of Potential Organic Corrosion Inhibitors. <i>Journal of Molecular Structure</i> , 2021, 1236, 130294.	1.8	54
131	Some Phthalocyanine and Naphthalocyanine Derivatives as Corrosion Inhibitors for Aluminium in Acidic Medium: Experimental, Quantum Chemical Calculations, QSAR Studies and Synergistic Effect of Iodide Ions. <i>Molecules</i> , 2015, 20, 15701-15734.	1.7	51
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