

# Ashraf Abousalem

## List of Publications by Year in descending order

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45  
papers

1,577  
citations

279798

23  
h-index

315739

38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

618  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.5	120
2	Quantum chemical and experimental evaluation of the inhibitory action of two imidazole derivatives on mild steel corrosion in sulphuric acid medium. <i>Heliyon</i> , 2019, 5, e02759.	3.2	93
3	Electrochemical, thermodynamic and theoretical studies of some imidazole derivatives compounds as acid corrosion inhibitors for mild steel. <i>Journal of Molecular Liquids</i> , 2020, 319, 114063.	4.9	81
4	Evaluation of 4-amidinophenyl-2,2â€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
5	Investigation of imidazole derivatives as corrosion inhibitors for mild steel in sulfuric acidic environment: experimental and theoretical studies. <i>Ionics</i> , 2020, 26, 5251-5272.	2.4	62
6	Insight into the corrosion inhibition of new amino-acids as efficient inhibitors for mild steel in HCl solution: Experimental studies and theoretical calculations. <i>Journal of Molecular Liquids</i> , 2021, 334, 116520.	4.9	62
7	Experimental and theoretical studies on corrosion inhibition of 4-amidinophenyl-2,2â€²-bifuran and its analogues in acidic media. <i>RSC Advances</i> , 2017, 7, 46414-46430.	3.6	59
8	Sample synthesis, characterization, experimental and theoretical study of the inhibitory power of new 8-hydroxyquinoline derivatives for mild steel in 1.0M HCl. <i>Journal of Molecular Structure</i> , 2020, 1213, 128155.	3.6	58
9	Molecular Dynamics, Monte-Carlo Simulations and Atomic Force Microscopy to Study the Interfacial Adsorption Behaviour of Some Triazepine Carboxylate Compounds as Corrosion Inhibitors in Acid Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	57
10	Experimental, DFT calculations and MC simulations concept of novel quinazolinone derivatives as corrosion inhibitor for mild steel in 1.0M HCl medium. <i>Journal of Molecular Liquids</i> , 2020, 312, 113413.	4.9	52
11	Synthesis and characterization of novel Cu (II) and Zn (II) complexes of 5-[(2-Hydroxyethyl) sulfanyl] methyl]-8-hydroxyquinoline as effective acid corrosion inhibitor by experimental and computational testings. <i>Chemical Physics Letters</i> , 2020, 754, 137771.	2.6	50
12	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
13	Novel Cu (II) and Zn (II) complexes of 8-hydroxyquinoline derivatives as effective corrosion inhibitors for mild steel in 1.0M HCl solution: Computer modeling supported experimental studies. <i>Journal of Molecular Liquids</i> , 2019, 290, 111243.	4.9	49
14	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
15	A complementary experimental and in silico studies on the action of fluorophenylâ€²,2â€²-bichalcophenes as ecofriendly corrosion inhibitors and biocide agents. <i>Journal of Molecular Liquids</i> , 2019, 276, 255-274.	4.9	47
16	S-Thiazine as effective inhibitor of mild steel corrosion in HCl solution: Synthesis, experimental, theoretical and surface assessment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126127.	4.7	46
17	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
18	Synthetic, spectroscopic characterization, empirical and theoretical investigations on the corrosion inhibition characteristics of mild steel in molar hydrochloric acid by three novel 8-hydroxyquinoline derivatives. <i>Ionics</i> , 2020, 26, 503-522.	2.4	39

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19	Chemically functionalized of 8-hydroxyquinoline derivatives as efficient corrosion inhibition for steel in 1.0M HCl solution: Experimental and theoretical studies. <i>Surfaces and Interfaces</i> , 2020, 21, 100695.	3.0	38
20	Evaluating prolonged corrosion inhibition performance of benzyltributylammonium tetrachloroaluminate ionic liquid using electrochemical analysis and Monte Carlo simulation. <i>Journal of Molecular Liquids</i> , 2020, 297, 111855.	4.9	36
21	Detailed experimental and computational explorations of pyran derivatives as corrosion inhibitors for mild steel in 1.0M HCl: Electrochemical/surface studies, DFT modeling, and MC simulation. <i>Journal of Molecular Structure</i> , 2022, 1261, 132784.	3.6	34
22	Synthesis, antibacterial study and corrosion inhibition potential of newly synthesis oxathiolan and triazole derivatives of 8-hydroxyquinoline: Experimental and theoretical approach. <i>Surfaces and Interfaces</i> , 2020, 19, 100468.	3.0	33
23	Synthesis, characterization and corrosion inhibition potential of newly benzimidazole derivatives: Combining theoretical and experimental study. <i>Surfaces and Interfaces</i> , 2020, 18, 100442.	3.0	29
24	Experimental, DFT and MC simulation analysis of Vicia Sativa weed aerial extract as sustainable and eco-benign corrosion inhibitor for mild steel in acidic environment. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 29, 100785.	3.3	28
25	Anti-corrosion Properties of 2-Phenyl-4(3H)-quinazolinone-Substituted Compounds: Electrochemical, Quantum Chemical, Monte Carlo, and Molecular Dynamic Simulation Investigation. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	25
26	Luminescent coatings: White-color luminescence from a simple and single chromophore with high anticorrosion efficiency. <i>Dyes and Pigments</i> , 2020, 175, 108146.	3.7	24
27	Appraisal of corrosion inhibiting ability of new 5-N-((alkylamino)methyl)quinolin-8-ol analogs for C40E steel in sulfuric acid. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30246-30266.	7.1	22
28	Experimental and computational chemical studies on the corrosion inhibitive properties of carbonitrile compounds for carbon steel in aqueous solutions. <i>Scientific Reports</i> , 2021, 11, 21672.	3.3	22
29	Impact of some pyrrolidinium ionic liquids on copper dissolution behavior in acidic environment: experimental, morphological and theoretical insights. <i>RSC Advances</i> , 2019, 9, 20760-20777.	3.6	21
30	New N-Heterocyclic Compounds Based on 8-Hydroxyquinoline as Efficient Corrosion Inhibition for Mild Steel in HCl Solution: Experimental and Theoretical Assessments. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 257-274.	3.0	20
31	Experimental and surface morphological studies of corrosion inhibition on carbon steel in HCl solution using some new hydrazide derivatives. <i>RSC Advances</i> , 2021, 11, 13497-13512.	3.6	19
32	Selective synthesis of new sugars based on 8-hydroxyquinoline as corrosion inhibitors for mild steel in HCl solution-effect of the saturated hydrocarbon chain: Theoretical and experimental studies. <i>Inorganic Chemistry Communication</i> , 2020, 118, 108019.	3.9	17
33	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
34	Novel cationic aryl bithiophene/terthiophene derivatives as corrosion inhibitors by chemical, electrochemical and surface investigations. <i>Scientific Reports</i> , 2022, 12, 3192.	3.3	16
35	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
36	Novel triphenyl imidazole based on 8-hydroxyquinoline as corrosion inhibitor for mild steel in molar hydrochloric acid: experimental and theoretical investigations. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 413-433.	2.9	15

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37	Corrosion mitigation of carbon steel by spin coating with Ag-TiO <sub>2</sub> gel films in acidic solution: Fabrication, characterization, electrochemical and quantum chemical approaches. <i>Surface and Coatings Technology</i> , 2019, 374, 852-867.	4.8	14
38	Probing the effect of newly synthesized phenyltrimethylammonium tetrachloroaluminate ionic liquid as an inhibitor for carbon steel corrosion. <i>Applied Surface Science Advances</i> , 2021, 6, 100150.	6.8	13
39	Exploring the inhibition performance of tetrachloroferrate ionic liquid in acid environment using scanning electrochemical microscope and theoretical approaches. <i>Surfaces and Interfaces</i> , 2020, 20, 100594.	3.0	11
40	Experimental and computational chemical studies on the cationic furanylnicotinamides as novel corrosion inhibitors in aqueous solutions. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 477-491.	3.5	8
41	Chemical, Electrochemical, Theoretical and Surface Morphology Studies of Triazepine Carboxylate Compounds as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	7
42	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
43	Inhibitive Properties and Computational Approach of Organoselenides on Mild Steel Corrosion in Acidic Environment. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 1320-1335.	0.9	4
44	Experimental and computational simulations for the effect of new Arylfuranylnicotinamide derivatives against degradation of carbon steel in acid solutions. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019, 15, 1294-1317.	1.3	2
45	Evaluation of Corrosion Mitigation Performance of 1-(3,4,5-Trimethoxyphenylmethylidene)-2-Naphthylamine (TMPNA) Schiff's Base on Carbon Steel Using Electrochemical, Thermodynamic and Theoretical Approaches. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	2