

# Hassane Lgaz

## List of Publications by Year in descending order

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151  
papers

7,765  
citations

41258

49  
h-index

64668

79  
g-index

154  
all docs

154  
docs citations

154  
times ranked

2398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and adsorption capacity of four low-cost adsorbents based on coconut, almond, walnut, and peanut shells for copper removal. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3655-3666.	2.9	13
2	Green and eco-friendly montmorillonite clay for the removal of Cr(III) metal ion from aqueous environment. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2443-2454.	1.8	8
3	Facile preparation of new hydrazone compounds and their application for long-term corrosion inhibition of N80 steel in 15% HCl: An experimental study combined with DFTB calculations. <i>Journal of Molecular Liquids</i> , 2022, 347, 117952.	2.3	28
4	A combined computational & electrochemical exploration of the Ammi visnaga L. extract as a green corrosion inhibitor for carbon steel in HCl solution. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103573.	2.3	45
5	First-principles based theoretical investigation of the adsorption of alkanethiols on the iron surface: A DFT-D3 study. <i>Journal of Molecular Liquids</i> , 2022, 348, 118071.	2.3	14
6	Synthesis of novel hybrid quinoxaline containing triazole and acetamide moieties by azide-alkyne click chemistry: Experimental and theoretical characterization. <i>Journal of Molecular Structure</i> , 2022, 1253, 132132.	1.8	18
7	Development of QSAR-based (MLR/ANN) predictive models for effective design of pyridazine corrosion inhibitors. <i>Materials Today Communications</i> , 2022, 30, 103163.	0.9	18
8	Cupressus arizonica fruit essential oil: A novel green inhibitor for acid corrosion of carbon steel. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103849.	2.3	21
9	Computational insights into quinoxaline-based corrosion inhibitors of steel in HCl: Quantum chemical analysis and QSPR-ANN studies. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103870.	2.3	23
10	Efficient Adsorption Removal of an Anionic Azo Dye by Lignocellulosic Waste Material and Sludge Recycling into Combustible Briquettes. <i>Colloids and Interfaces</i> , 2022, 6, 22.	0.9	18
11	An environmentally friendly formulation based on Cannabis sativa L. seed oil for corrosion inhibition of E24 steel in HCl medium: Experimental and theoretical study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 643, 128745.	2.3	28
12	Designing new donors organic compounds with IDIC core for photovoltaic application. <i>Optik</i> , 2022, 262, 169174.	1.4	2
13	Pharmaceutical drugs as corrosion inhibitors I. , 2022, , 195-210.		0
14	Experimental and first-principles DFT insights into the corrosion protection mechanism of carbon steel in an HCl medium by two thiazolidinedione compounds. <i>Materials Today Communications</i> , 2022, 32, 103841.	0.9	5
15	Anticorrosive properties of green-synthesized benzylidene derivatives for mild steel in hydrochloric acid: An experimental study combined with DFTB and molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2022, 363, 119790.	2.3	12
16	Effective green corrosion inhibition of aluminium using analgin in acidic medium: an experimental and theoretical study. <i>Chemical Engineering Communications</i> , 2021, 208, 1121-1130.	1.5	64
17	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.	1.7	20
18	Insights into methyl orange adsorption behavior on a cadmium zeolitic-imidazolite framework Cd-ZIF-8: A joint experimental and theoretical study. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102897.	2.3	25

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19	Phenol adsorption mechanism on the zinc oxide surface: Experimental, cluster DFT calculations, and molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2021, 324, 114993.	2.3	28
20	Outstanding anticorrosion and adsorption properties of 2-amino-6-methoxybenzothiazole on Q235 and X70 carbon steels: Effect of time, XPS, electrochemical and theoretical considerations. <i>Journal of Molecular Liquids</i> , 2021, 324, 114663.	2.3	16
21	Molecular modelling of compounds used for corrosion inhibition studies: a review. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19987-20027.	1.3	78
22	Synergistic inhibition behavior between rhodamine blue and cationic gemini surfactant on mild steel corrosion in 1 M HCl medium. <i>Journal of Molecular Structure</i> , 2021, 1228, 129751.	1.8	21
23	Enhanced removal efficiency of NaY zeolite toward phenol from aqueous solution by modification with nickel (Ni-NaY). <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101224.	2.4	21
24	A comprehensive investigation of the electrochemical behavior of nickel-aluminum bronze alloy in alkaline solution: The effect of film formation potential. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126126.	2.3	13
25	Corrosion protection of Q235 steel in acidic-chloride media using seed extracts of Piper guineense. <i>Journal of Molecular Liquids</i> , 2021, 330, 115619.	2.3	21
26	Synthesis, structural analysis and corrosion inhibition application of a new indazole derivative on mild steel surface in acidic media complemented with DFT and MD studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126373.	2.3	32
27	Adsorption and inhibition mechanism of (Z)-4-((4-methoxybenzylidene)amino)-5-methyl-2,4-dihydro-3H-1,2,4-triazole-3-thione on carbon steel corrosion in HCl: Experimental and theoretical insights. <i>Journal of Molecular Structure</i> , 2021, 1231, 129901.	1.8	24
28	Dehydration of bioethanol produced from argane pulp using pervaporation membrane process: Experimental, molecular dynamics and GCMC simulation studies. <i>Journal of Molecular Liquids</i> , 2021, 329, 115441.	2.3	6
29	Experimental and theoretical explorations of S-alkylated mercaptobenzimidazole derivatives for use as corrosion inhibitors for carbon steel in HCl. <i>Journal of Molecular Liquids</i> , 2021, 331, 115708.	2.3	36
30	The corrosion inhibition and adsorption behavior of mercaptobenzimidazole and bis-mercaptobenzimidazole on carbon steel in 1.0 M HCl: Experimental and computational insights. <i>Surfaces and Interfaces</i> , 2021, 24, 101095.	1.5	36
31	Upgrading the performances of polysulfone/polyetherimide ultrafiltration composite membranes for dyes removal: Experimental and molecular dynamics studies. <i>Journal of Molecular Liquids</i> , 2021, 331, 115743.	2.3	14
32	Spectroscopic Insight into Tetrahedrally Distorted Square Planar Copper(II) Complex: XRD/HSA, Physicochemical, DFT, and Thermal Investigations. <i>Crystals</i> , 2021, 11, 1179.	1.0	2
33	Assessment of biodegradable glycine and glutamic acid based ionic liquids as mild steel corrosion inhibitors in acid solution: an experimental and theoretical approach. <i>Journal of Molecular Structure</i> , 2021, 1240, 130505.	1.8	20
34	Evaluating the corrosion inhibition properties of novel 1,2,3-triazolyl nucleosides and their synergistic effect with iodide ions against mild steel corrosion in HCl: A combined experimental and computational exploration. <i>Journal of Molecular Liquids</i> , 2021, 338, 116522.	2.3	23
35	Computational investigation on interaction mechanism of sulfur mustard adsorption by zeolitic imidazolate frameworks ZIF-8 and ZIF-67: Insights from periodic and cluster DFT calculations. <i>Journal of Molecular Liquids</i> , 2021, 344, 117705.	2.3	13
36	Polysulfone/Polyetherimide Ultrafiltration composite membranes constructed on a three-component Nylon-fiberglass-Nylon support for azo dyes removal: Experimental and molecular dynamics simulations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126941.	2.3	14

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37	Hydrazone-based green corrosion inhibitors for API grade carbon steel in HCl: Insights from electrochemical, XPS, and computational studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127047.	2.3	46
38	Electrochemical and theoretical performance of new synthesized pyrazole derivatives as promising corrosion inhibitors for mild steel in acid environment: Molecular structure effect on efficiency. <i>Journal of Molecular Liquids</i> , 2021, 342, 117507.	2.3	22
39	The effect of heterocyclization of 2-mercaptobenzimidazole on its strength of coordination to iron: A dispersion-corrected DFT study. <i>Applied Surface Science</i> , 2021, 567, 150819.	3.1	10
40	Hemilability in neutral $RuCl_2(\cdot 1\hat{a}^{\wedge}P\hat{a}^{\wedge}O)_2(N\hat{a}^{\wedge}N)$ complexes: Physicochemical, trans/cis-isomerization, thermal and A DFT/TD-DFT. <i>Journal of Molecular Liquids</i> , 2021, 341, 117339.	2.3	2
41	Aminomethylpyridazine isomers as corrosion inhibitors for mild steel in 1ÅM HCl: Electrochemical, DFT and Monte Carlo simulation studies. <i>Journal of Molecular Liquids</i> , 2021, 344, 117882.	2.3	18
42	Corrosion Inhibition Properties of Thiazolidinedione Derivatives for Copper in 3.5 wt.% NaCl Medium. <i>Metals</i> , 2021, 11, 1861.	1.0	6
43	Toward the development of an innovative descaling and corrosion inhibiting solutions to protect mild steel equipment: an experimental and theoretical approach. <i>Chemical Engineering Communications</i> , 2020, 207, 632-651.	1.5	11
44	Improved corrosion resistance of mild steel in acidic solution by hydrazone derivatives: An experimental and computational study. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2934-2954.	2.3	89
45	Comprehensive investigation of steel corrosion inhibition at macro/micro level by ecofriendly green corrosion inhibitor in 15% HCl medium. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 225-236.	5.0	266
46	Exploring the potential role of pyrazoline derivatives in corrosion inhibition of mild steel in hydrochloric acid solution: Insights from experimental and computational studies. <i>Construction and Building Materials</i> , 2020, 233, 117320.	3.2	123
47	Assessing the impact of electron-donating-substituted chalcones on inhibition of mild steel corrosion in HCl solution: Experimental results and molecular-level insights. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 588, 124366.	2.3	73
48	Inhibition performances of spirocyclopropane derivatives for mild steel protection in HCl. <i>Materials Chemistry and Physics</i> , 2020, 243, 122582.	2.0	40
49	Synthesis of a novel phenytoin derivative: Crystal structure, Hirshfeld surface analysis and DFT calculations. <i>Journal of Molecular Structure</i> , 2020, 1205, 127630.	1.8	56
50	Synthesis, crystal structure, Hirshfeld surface analysis and DFT calculations of 2-[(2,3-dimethylphenyl)amino]-N $\hat{a}^{\wedge}$ TM-[(E)-thiophen-2-ylmethylidene]benzohydrazide. <i>Journal of Molecular Structure</i> , 2020, 1205, 127654.	1.8	76
51	Synthesis and corrosion inhibition evaluation of a new schiff base hydrazone for mild steel corrosion in HCl medium: electrochemical, DFT, and molecular dynamics simulations studies. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 1283-1314.	1.4	43
52	Interfacial adsorption behavior of quaternary phosphonium based ionic liquids on metal-electrolyte interface: Electrochemical, surface characterization and computational approaches. <i>Journal of Molecular Liquids</i> , 2020, 298, 111995.	2.3	26
53	Unveiled understanding on corrosion inhibition mechanisms of hydrazone derivatives based on naproxen for mild steel in HCl: A joint experimental/theoretical study. <i>Journal of Molecular Liquids</i> , 2020, 320, 114442.	2.3	29
54	Enhanced corrosion inhibition of carbon steel in HCl solution by a newly synthesized hydrazone derivative: Mechanism exploration from electrochemical, XPS, and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 315, 113805.	2.3	54

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55	Lemon seeds as green coating material for mitigation of mild steel corrosion in acid media: Molecular dynamics simulations, quantum chemical calculations and electrochemical studies. <i>Journal of Molecular Liquids</i> , 2020, 316, 113797.	2.3	40
56	Theoretical Prediction and Experimental Study of Benzimidazole Derivate as a Novel Corrosion Inhibitor for Carbon Steel in 1.0 M HCl. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 1027-1038.	0.3	8
57	Benzidine-based Schiff base compounds for employing as corrosion inhibitors for carbon steel in 1.0 M HCl aqueous media by chemical, electrochemical and computational methods. <i>Journal of Molecular Liquids</i> , 2020, 317, 114015.	2.3	78
58	The effect of the alkyl chain length on corrosion inhibition performances of 1,2,4-triazole-based compounds for mild steel in 1.0 M HCl: Insights from experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2020, 303, 112631.	2.3	75
59	Evaluation of inhibitive and adsorption behavior of thiazole-4-carboxylates on mild steel corrosion in HCl. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125351.	2.3	32
60	Corrosion resistance of $\hat{1}\pm$ - and $(\hat{1}\pm + \hat{1}^2)$ -Brasses in a descaling solution by a mixture of imidazole and hexadecyltrimethylammonium bromide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125399.	2.3	18
61	Theoretical insights about inhibition efficiencies of some 8-Hydroxyquinoline derivatives against the corrosion of mild steel. <i>Molecular Simulation</i> , 2020, 46, 1398-1404.	0.9	11
62	New 8-Hydroxyquinoline-Bearing Quinoxaline Derivatives as Effective Corrosion Inhibitors for Mild Steel in HCl: Electrochemical and Computational Investigations. <i>Coatings</i> , 2020, 10, 811.	1.2	23
63	Synthesis, experimental and theoretical characterization of (E)-2-((2,3-dimethylphenyl)amino)-N <sup>4</sup> -(furan-2-ylmethylene)benzohydrazide. <i>Journal of Molecular Structure</i> , 2020, 1219, 128518.	1.8	12
64	Electrochemical and surface studies on chemically modified glucose derivatives as environmentally benign corrosion inhibitors. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 16, 100260.	1.6	27
65	Synthesis, crystal structure, hirshfeld surface analysis, DFT computations and molecular dynamics study of 2-(benzyloxy)-3-phenylquinoxaline. <i>Journal of Molecular Structure</i> , 2020, 1221, 128727.	1.8	14
66	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
67	Evaluation of 2-Mercaptobenzimidazole Derivatives as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid. <i>Metals</i> , 2020, 10, 357.	1.0	58
68	Green Corrosion Inhibition of Mild Steel by Hydrazone Derivatives in 1.0 M HCl. <i>Coatings</i> , 2020, 10, 640.	1.2	47
69	Exploring the potential of a new 1,2,4-triazole derivative for corrosion protection of carbon steel in HCl: A computational and experimental evaluation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 597, 124604.	2.3	38
70	Polar group substituted imidazolium zwitterions as eco-friendly corrosion inhibitors for mild steel in acid solution. <i>Corrosion Science</i> , 2020, 172, 108665.	3.0	126
71	New spirocyclopropane derivatives: synthesis and evaluation of their performances toward corrosion inhibition of mild steel in acidic media. <i>Research on Chemical Intermediates</i> , 2020, 46, 2881-2918.	1.3	9
72	Inhibitory effect of a new isoniazid derivative as an effective inhibitor for mild steel corrosion in 1.0 M HCl: combined experimental and computational study. <i>Research on Chemical Intermediates</i> , 2020, 46, 2919-2950.	1.3	8

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73	Corrosion Inhibition Performance of Acarbose on Mild Steel Corrosion in Acidic Medium: An Experimental and Computational Study. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4773-4783.	1.7	85
74	Removal of phenol from aqueous solution by adsorption onto hematite ( $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> ): Mechanism exploration from both experimental and theoretical studies. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5474-5486.	2.3	56
75	Assessing corrosion inhibition characteristics of hydrazone derivatives on mild steel in HCl: Insights from electronic-scale DFT and atomic-scale molecular dynamics. <i>Journal of Molecular Liquids</i> , 2020, 308, 112998.	2.3	71
76	Bolaamphiphile-class surfactants as corrosion inhibitor model compounds against acid corrosion of mild steel. <i>Journal of Molecular Liquids</i> , 2020, 309, 113070.	2.3	70
77	Green approach of synthesis of thiazolyl imines and their impeding behavior against corrosion of mild steel in acid medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124824.	2.3	39
78	Corrosion inhibition efficiency of bronopol on aluminium in 0.5 M HCl solution: Insights from experimental and quantum chemical studies. <i>Surfaces and Interfaces</i> , 2020, 20, 100542.	1.5	84
79	Potentiodynamic Polarization Behavior and Microscopic Examination of Tungsten Carbide Hard Metal Materials in Supported Ammoniacal Medium. <i>Portugaliae Electrochimica Acta</i> , 2020, 38, 253-280.	0.4	1
80	A new insight into corrosion inhibition mechanism of copper in aerated 3.5 wt.% NaCl solution by eco-friendly Imidazopyrimidine Dye: experimental and theoretical approach. <i>Chemical Engineering Journal</i> , 2019, 358, 725-742.	6.6	237
81	Corrosion inhibition performance of imidazolidine derivatives for J55 pipeline steel in acidic oilfield formation water: Electrochemical, surface and theoretical studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 341-356.	2.7	69
82	An Exploration about the Interaction of Mild Steel with Hydrochloric Acid in the Presence of <i>N</i> -(Benzo[ <i>d</i> ]thiazole-2-yl)-1-phenylethan-1-imines. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22897-22917.	1.5	73
83	Synthesis, structural and molecular characterization of 2,2-diphenyl-2H,3H,5H,6H,7H-imidazo[2,1- <i>b</i> ][1,3]thiazin-3-one. <i>Journal of Molecular Structure</i> , 2019, 1197, 369-376.	1.8	60
84	Corrosion Inhibition of Mild Steel in 1.0 M HCl by two Hydrazone Derivatives. <i>International Journal of Electrochemical Science</i> , 2019, 14, 6667-6681.	0.5	21
85	Computational and experimental studies on Phenylephrine as anti-corrosion substance of mild steel in acidic medium. <i>Journal of Molecular Liquids</i> , 2019, 293, 111539.	2.3	93
86	Insights into corrosion inhibition behavior of a triazole derivative For mild steel in hydrochloric acid solution. <i>Materials Today: Proceedings</i> , 2019, 13, 1008-1022.	0.9	8
87	Adsorptive removal of phenol using faujasite-type Y zeolite: Adsorption isotherms, kinetics and grand canonical Monte Carlo simulation studies. <i>Journal of Molecular Liquids</i> , 2019, 296, 111997.	2.3	62
88	Inhibitory effect of sodium carboxymethylcellulose and synergistic biodegradable gemini surfactants as effective inhibitors for MS corrosion in 1 M HCl. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4521-4533.	2.6	67
89	Improving corrosion inhibition potentials using two triazole derivatives for mild steel in acidic medium: Experimental and theoretical studies. <i>Materials Today: Proceedings</i> , 2019, 13, 920-930.	0.9	21
90	Influence of sodium gluconate and cetyltrimethylammonium bromide on the corrosion behavior of duplex ( $\alpha$ - $\beta$ ) brass in sulfuric acid solution. <i>Materials Chemistry and Physics</i> , 2019, 227, 200-210.	2.0	19



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91	Ultrasound induced green synthesis of pyrazolo-pyridines as novel corrosion inhibitors useful for industrial pickling process: Experimental and theoretical approach. Results in Physics, 2019, 13, 102344.	2.0	28
92	Functionalized graphene oxide as a new generation corrosion inhibitor for industrial pickling process: DFT and experimental approach. Materials Chemistry and Physics, 2019, 236, 121727.	2.0	69
93	Advanced quantum chemical and electrochemical analysis of ravage drugs for corrosion inhibition of mild steel. Journal of Adhesion Science and Technology, 2019, 33, 1066-1089.	1.4	32
94	Adsorption and anticorrosion behaviour of mild steel treated with 2-((1H-indol-2-yl)thio)-6-amino-4-phenylpyridine-3,5-dicarbonitriles in a hydrochloric acid solution: Experimental and computational studies. Journal of Molecular Liquids, 2019, 283, 491-506.	2.3	26
95	Potential of Venlafaxine in the inhibition of mild steel corrosion in HCl: insights from experimental and computational studies. Chemical Papers, 2019, 73, 2255-2264.	1.0	60
96	Solvent-free microwave assisted synthesis and corrosion inhibition study of a series of hydrazones derived from thiophene derivatives: Experimental, surface and theoretical study. Journal of Molecular Liquids, 2019, 283, 788-803.	2.3	52
97	Exploring deep insights into the interaction mechanism of a quinazoline derivative with mild steel in HCl: electrochemical, DFT, and molecular dynamic simulation studies. Journal of Adhesion Science and Technology, 2019, 33, 921-944.	1.4	32
98	Mild Steel Corrosion Inhibition by Furocoumarin Derivatives in Acidic Media. International Journal of Electrochemical Science, 2019, , 6699-6721.	0.5	3
99	On the understanding of the adsorption of Fenugreek gum on mild steel in an acidic medium: Insights from experimental and computational studies. Applied Surface Science, 2019, 463, 647-658.	3.1	136
100	Effect of Electron Donating Functional Groups on Corrosion Inhibition of J55 Steel in a Sweet Corrosive Environment: Experimental, Density Functional Theory, and Molecular Dynamic Simulation. Materials, 2019, 12, 17.	1.3	71
101	Biopolymer dextrin and poly (vinyl acetate) based graft copolymer as an efficient corrosion inhibitor for mild steel in hydrochloric acid: Electrochemical, surface morphological and theoretical studies. Journal of Molecular Liquids, 2019, 275, 867-878.	2.3	50
102	Experimental and theoretical investigation of aqueous and methanolic extracts of Prunus dulcis peels as green corrosion inhibitors of mild steel in aggressive chloride media. Journal of Molecular Liquids, 2019, 276, 347-361.	2.3	77
103	PVP oxime-TiO <sub>2</sub> -adenine as a hybrid material: Decent synthesis and depiction with advanced theoretical measurements for anticorrosive behavior and antibacterial potentiality. Journal of Molecular Liquids, 2019, 278, 438-451.	2.3	21
104	Synthesis and evaluation of some new hydrazones as corrosion inhibitors for mild steel in acidic media. Research on Chemical Intermediates, 2019, 45, 2269-2286.	1.3	29
105	Electrochemical Behavior and Computational Analysis of Phenylephrine for Corrosion Inhibition of Aluminum in Acidic Medium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 468-479.	1.1	47
106	Experimental, density functional theory and molecular dynamics supported adsorption behavior of environmental benign imidazolium based ionic liquids on mild steel surface in acidic medium. Journal of Molecular Liquids, 2019, 273, 1-15.	2.3	92
107	New Benzohydrazide Derivative as Corrosion Inhibitor for Carbon Steel in a 1.0 M HCl Solution: Electrochemical, DFT and Monte Carlo Simulation Studies. Portugaliae Electrochimica Acta, 2019, 37, 147-165.	0.4	14
108	Electrochemical DFT and MD Simulation Study of Substituted Imidazoles as Novel Corrosion Inhibitors for Mild Steel. Portugaliae Electrochimica Acta, 2019, 37, 217-239.	0.4	7

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109	Effects of Cetyltrimethylammonium bromide on the Corrosion Inhibition of a Lead-free $\beta$ -Brass by Sodium Gluconate in Sulfuric Acid. <i>Journal of Electrochemical Science and Technology</i> , 2019, 10, 257-270.	0.9	7
110	Spiro [indoline-3,4 $\pi^2$ -pyrano[2,3-c]pyrazole] Derivatives as Novel Class of Green Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Medium: Theoretical and Experimental Approach. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	1.2	14
111	Pyrazoline derivatives as possible corrosion inhibitors for mild steel in acidic media: A combined experimental and theoretical approach. <i>Cogent Engineering</i> , 2018, 5, 1441585.	1.1	23
112	Sugar based N,N $\pi^2$ -didodecyl-N,N $\pi^2$ digluconamideethylenediamine gemini surfactant as corrosion inhibitor for mild steel in 3.5% NaCl solution-effect of synergistic KI additive. <i>Scientific Reports</i> , 2018, 8, 3690.	1.6	70
113	Indoor and outdoor air quality analysis for the city of Nablus in Palestine: seasonal trends of PM10, PM5.0, PM2.5, and PM1.0 of residential homes. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 229-237.	1.5	35
114	The inhibition action of analgin on the corrosion of mild steel in acidic medium: A combined theoretical and experimental approach. <i>Journal of Molecular Liquids</i> , 2018, 263, 454-462.	2.3	120
115	Experimental and Theoretical Studies on Inhibition of Carbon Steel Corrosion by 1,5-Diaminonaphthalene. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	1.2	8
116	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
117	Thiosemicarbazide and thiocarbohydrazide functionalized chitosan as ecofriendly corrosion inhibitors for carbon steel in hydrochloric acid solution. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1747-1757.	3.6	227
118	Effect of electron donating functional groups on corrosion inhibition of mild steel in hydrochloric acid: Experimental and quantum chemical study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 82, 233-251.	2.7	244
119	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
120	Dispersive adsorption of Xylopiia aethiopica constituents on carbon steel in acid-chloride medium: A combined experimental and theoretical approach. <i>Journal of Molecular Liquids</i> , 2018, 249, 371-388.	2.3	48
121	Synthesis, characterization and corrosion inhibition studies of novel 8-hydroxyquinoline derivatives on the acidic corrosion of mild steel: Experimental and computational studies. <i>Materials Discovery</i> , 2018, 12, 43-54.	3.3	46
122	Phosphorous-based epoxy resin composition as an effective anticorrosive coating for steel. <i>International Journal of Industrial Chemistry</i> , 2018, 9, 231-240.	3.1	36
123	The Synergistic Effect of Chloride Ion and 1,5-Diaminonaphthalene on the Corrosion Inhibition of Mild Steel in 0.5 $\pi$ M Sulfuric Acid: Experimental and Theoretical Insights.. <i>Surfaces and Interfaces</i> , 2018, 13, 168-177.	1.5	14
124	Synthesis and investigation of pyran derivatives as acidizing corrosion inhibitors for N80 steel in hydrochloric acid: Theoretical and experimental approaches. <i>Journal of Alloys and Compounds</i> , 2018, 762, 347-362.	2.8	170
125	Microwave-Induced Synthesis of Chitosan Schiff Bases and Their Application as Novel and Green Corrosion Inhibitors: Experimental and Theoretical Approach. <i>ACS Omega</i> , 2018, 3, 5654-5668.	1.6	177
126	Understanding corrosion inhibition of mild steel in acid medium by new benzonitriles: Insights from experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2018, 266, 603-616.	2.3	96



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127	Towards a Deeper Understanding of the Anticorrosive Properties of Hydrazine Derivatives in Acid Medium: Experimental, DFT and MD Simulation Assessment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5180-5191.	1.1	19
128	A new schiff base derivative as an effective corrosion inhibitor for mild steel in acidic media: Experimental and computer simulations studies. Journal of Molecular Structure, 2018, 1168, 39-48.	1.8	100
129	Chemical, Electrochemical and Computational Studies of Newly Synthesized Novel and Environmental Friendly Heterocyclic Compounds as Corrosion Inhibitors for Mild Steel in Acidic Medium. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	1.2	26
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