

Abdelkader Zarrouk

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5026643/abdelkader-zarrouk-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257
papers

4,532
citations

37
h-index

56
g-index

266
ext. papers

6,098
ext. citations

3.6
avg, IF

6.19
L-index

#	Paper	IF	Citations
257	New 1 H -pyrrole-2,5-dione derivatives as efficient organic inhibitors of carbon steel corrosion in hydrochloric acid medium: Electrochemical, XPS and DFT studies. <i>Corrosion Science</i> , 2015 , 90, 572-584	6.8	211
256	Corrosion control of carbon steel in phosphoric acid by purpald [Weight loss, electrochemical and XPS studies. <i>Corrosion Science</i> , 2012 , 64, 243-252	6.8	181
255	Corrosion inhibition performance of 2,5-bis(4-dimethylaminophenyl)-1,3,4-oxadiazole for carbon steel in HCl solution: Gravimetric, electrochemical and XPS studies. <i>Applied Surface Science</i> , 2016 , 389, 952-966	6.7	112
254	Development and potential performance of prepolymer in corrosion inhibition for carbon steel in 1.0M HCl: Outlooks from experimental and computational investigations. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 43-60	9.3	106
253	Eco friendly green inhibitor Gum Arabic (GA) for the corrosion control of mild steel in hydrochloric acid medium. <i>Corrosion Science</i> , 2017 , 129, 70-81	6.8	102
252	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	3.6	102
251	Inhibitive properties, adsorption and theoretical study of 3,7-dimethyl-1-(prop-2-yn-1-yl)quinoxalin-2(1H)-one as efficient corrosion inhibitor for carbon steel in hydrochloric acid solution. <i>Journal of Molecular Liquids</i> , 2016 , 222, 239-252	6	87
250	A theoretical study on the inhibition efficiencies of some quinoxalines as corrosion inhibitors of copper in nitric acid. <i>Journal of Saudi Chemical Society</i> , 2014 , 18, 450-455	4.3	86
249	Two new 8-hydroxyquinoline derivatives as an efficient corrosion inhibitors for mild steel in hydrochloric acid: Synthesis, electrochemical, surface morphological, UV-visible and theoretical studies. <i>Journal of Molecular Liquids</i> , 2019 , 276, 120-133	6	81
248	Some hydrazine derivatives as corrosion inhibitors for mild steel in 1.0M HCl: Weight loss, electrochemical, SEM and theoretical studies. <i>Journal of Molecular Liquids</i> , 2016 , 221, 633-641	6	79
247	Experimental investigation on the corrosion inhibition of carbon steel by 5-(chloromethyl)-8-quinolinol hydrochloride in hydrochloric acid solution. <i>Journal of Molecular Liquids</i> , 2016 , 219, 396-404	6	79
246	Adsorption and corrosion inhibition properties of 5-amino 1,3,4-thiadiazole-2-thiol on the mild steel in hydrochloric acid medium: Thermodynamic, surface and electrochemical studies. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 803, 125-134	4.1	75
245	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	6	73
244	Inhibitive Properties and Adsorption of Purpald as a Corrosion Inhibitor for Copper in Nitric Acid Medium. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2560-2568	3.9	73
243	New Epoxy sugar based glucose derivatives as eco friendly corrosion inhibitors for the carbon steel in 1.0M HCl: Experimental and theoretical investigations. <i>Journal of Alloys and Compounds</i> , 2020 , 833, 154949	5.7	71
242	Corrosion inhibition and adsorption behaviour of some bis-pyrimidine derivatives on mild steel in acidic medium. <i>Journal of Molecular Liquids</i> , 2017 , 225, 406-417	6	68
241	Keto-enol heterocycles as new compounds of corrosion inhibitors for carbon steel in 1 M HCl: Weight loss, electrochemical and quantum chemical investigation. <i>Journal of Molecular Liquids</i> , 2017 , 248, 340-349	6	67

240	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	7.9	67
239	Computational, MD simulation, SEM/EDX and experimental studies for understanding adsorption of benzimidazole derivatives as corrosion inhibitors in 1.0 M HCl solution. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 155842	5.7	62
238	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	3.9	59
237	Performance and computational studies of two soluble pyran derivatives as corrosion inhibitors for mild steel in HCl. <i>Journal of Molecular Structure</i> , 2019 , 1196, 231-244	3.4	57
236	Evaluation of Lavandula mairei extract as green inhibitor for mild steel corrosion in 1 M HCl solution. Experimental and theoretical approach. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113493	6	56
235	Experimental and theoretical studies for mild steel corrosion inhibition in 1.0 M HCl by three new quinoxaline derivatives. <i>Journal of Molecular Liquids</i> , 2016 , 221, 815-832	6	55
234	Extraction, characterization and anti-corrosion activity of Mentha pulegium oil: Weight loss, electrochemical, thermodynamic and surface studies. <i>Journal of Molecular Liquids</i> , 2016 , 216, 724-731	6	54
233	Tetrahydropyrimido-Triazepine derivatives as anti-corrosion additives for acid corrosion: Chemical, electrochemical, surface and theoretical studies. <i>Chemical Physics Letters</i> , 2020 , 743, 137181	2.5	53
232	Corrosion protection of carbon steel by two newly synthesized benzimidazol-2-ones substituted 8-hydroxyquinoline derivatives in 1 M HCl: Experimental and theoretical study. <i>Surfaces and Interfaces</i> , 2019 , 14, 222-237	4.1	51
231	Anticorrosion potential of some 5-amino-8-hydroxyquinolines derivatives on carbon steel in hydrochloric acid solution: Gravimetric, electrochemical, surface morphological, UV-Visible, DFT and Monte Carlo simulations. <i>Journal of Molecular Liquids</i> , 2017 , 248, 1014-1027	6	46
230	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	5.5	44
229	The inhibitive impact of both kinds of 5-isothiocyanatomethyl-8-hydroxyquinoline derivatives on the corrosion of carbon steel in acidic electrolyte. <i>Journal of Molecular Liquids</i> , 2019 , 295, 111629	6	43
228	Simple preparation and characterization of novel 8-Hydroxyquinoline derivatives as effective acid corrosion inhibitor for mild steel: Experimental and theoretical studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 602, 125094	5.1	43
227	Nitro substituent effect on the electronic behavior and inhibitory performance of two quinoxaline derivatives in relation to the corrosion of mild steel in 1M HCl. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113367	6	41
226	Synthesis of new epoxy glucose derivatives as a non-toxic corrosion inhibitors for carbon steel in molar HCl: Experimental, DFT and MD simulation. <i>Chemical Data Collections</i> , 2020 , 27, 100394	2.1	40
225	A Combined Experimental and Theoretical Study on the Corrosion Inhibition and Adsorption Behaviour of Quinoxaline Derivative During Carbon Steel Corrosion in Hydrochloric Acid. <i>Portugaliae Electrochimica Acta</i> , 2012 , 30, 405-417	2.4	40
224	Experimental and computational approaches on the pyran derivatives for acid corrosion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125231	5.1	38
223	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		38

222	Performance and computational studies of new soluble triazole as corrosion inhibitor for carbon steel in HCl. <i>Chemical Data Collections</i> , 2019 , 22, 100242	2.1	37
221	The inhibition behavior of two pyrimidine-pyrazole derivatives against corrosion in hydrochloric solution: Experimental, surface analysis and in silico approach studies. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 5949-5965	5.9	37
220	Some new bipyrazole derivatives as corrosion inhibitors for C38 steel in acidic medium. <i>Research on Chemical Intermediates</i> , 2012 , 38, 2051-2063	2.8	37
219	Novel Cu (II) and Zn (II) complexes of 8-hydroxyquinoline derivatives as effective corrosion inhibitors for mild steel in 1.0 M HCl solution: Computer modeling supported experimental studies. <i>Journal of Molecular Liquids</i> , 2019 , 290, 111243	6	34
218	In situ synthesis, electrochemical, surface morphological, UV-Visible, DFT and Monte Carlo simulations of novel 5-substituted-8-hydroxyquinoline for corrosion protection of carbon steel in a hydrochloric acid solution. <i>Journal of Molecular Liquids</i> , 2019 , 280, 341-359	6	34
217	Green synthesis of novel carbohydrate polymer chitosan oligosaccharide grafted on d-glucose derivative as bio-based corrosion inhibitor. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114549	6	34
216	Investigation of corrosion inhibition of carbon steel in 0.5 M H ₂ SO ₄ by new bipyrazole derivative using experimental and theoretical approaches. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2031-2041	6.8	33
215	Combined electronic/atomic level computational, surface (SEM/EDS), chemical and electrochemical studies of the mild steel surface by quinoxalines derivatives anti-corrosion properties in 1 mol/L-1 HCl solution. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1436-1458	3.2	33
214	Corrosion inhibition of mild steel by new Benzothiazine derivative in a hydrochloric acid solution: Experimental evaluation and theoretical calculations. <i>Chemical Data Collections</i> , 2019 , 22, 100252	2.1	33
213	Investigation and comparative study of the quantum molecular descriptors derived from the theoretical modeling and Monte Carlo simulation of two new macromolecular polyepoxide architectures TGEEBA and HGEMDA. <i>Journal of King Saud University - Science</i> , 2020 , 32, 667-676	3.6	33
212	Coupling of chemical, electrochemical and theoretical approach to study the corrosion inhibition of mild steel by new quinoxaline compounds in 1 M HCl. <i>Heliyon</i> , 2020 , 6, e03939	3.6	32
211	Sample synthesis, characterization, experimental and theoretical study of the inhibitory power of new 8-hydroxyquinoline derivatives for mild steel in 1.0 M HCl. <i>Journal of Molecular Structure</i> , 2020 , 1213, 128155	3.4	32
210	New pyrazole derivatives as effective corrosion inhibitors on steel-electrolyte interface in 1 M HCl: Electrochemical, surface morphological (SEM) and computational analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 604, 125325	5.1	32
209	Synthesis and investigation of quinazoline derivatives based on 8-hydroxyquinoline as corrosion inhibitors for mild steel in acidic environment: experimental and theoretical studies. <i>Ionics</i> , 2019 , 25, 3473-3491	2.7	31
208	Preparation and anti-corrosion activity of novel 8-hydroxyquinoline derivative for carbon steel corrosion in HCl molar: Computational and experimental analyses. <i>Journal of Molecular Liquids</i> , 2020 , 307, 112923	6	30
207	Insight into the corrosion inhibition of novel macromolecular epoxy resin as highly efficient inhibitor for carbon steel in acidic mediums: Synthesis, characterization, electrochemical techniques, AFM/UV-Visible and computational investigations. <i>Journal of Molecular Liquids</i> , 2021 , 327, 114100	6	28
206	Comparative Study of Corrosion Inhibition on Mild Steel in HCl Medium by Three Green Compounds: Argania spinosa Press Cake, Kernels and Hulls Extracts. <i>Transactions of the Indian Institute of Metals</i> , 2013 , 66, 43-49	1.2	27
205	Experimental and computational investigations on the anti-corrosive and adsorption behavior of 7-N,N-dialkylaminomethyl-8-Hydroxyquinolines on C40E steel surface in acidic medium. <i>Journal of Colloid and Interface Science</i> , 2020 , 576, 330-344	9.3	27

204	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	2.5	27
203	Corrosion inhibition of steel in sulfuric acidic solution by the Chenopodium Ambrosioides ExtractsPeer review under responsibility of University of Bahrain.View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2014 , 16, 83-90		26
202	Anticorrosion effect of a green sustainable inhibitor on mild steel in hydrochloric acid. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 740-752	9.3	26
201	Argan hulls extract: green inhibitor of mild steel corrosion in 1 M HCl solution. <i>Research on Chemical Intermediates</i> , 2012 , 38, 1707-1717	2.8	25
200	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	4.1	24
199	Ultrasound-assisted synthesis of two novel [CuBr(diamine)]HO]Br complexes: Solvatochromism, crystal structure, physicochemical, Hirshfeld surface thermal, DNA/binding, antitumor and antibacterial activities. <i>Ultrasonics Sonochemistry</i> , 2018 , 48, 1-10	8.9	23
198	Corrosion assesement of mild steel in acid environment using novel triazole derivative as a anti-corrosion agent: A combined experimental and quantum chemical study. <i>Chemical Data Collections</i> , 2019 , 24, 100302	2.1	23
197	3,5-Diaryl-4-amino-1,2,4-triazole derivatives as effective corrosion inhibitors for mild steel in hydrochloric acid solution: Correlation between anti-corrosion activity and chemical structure. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017 , 53, 548-559	0.9	23
196	An investigation of carbon steel corrosion inhibition in hydrochloric acid medium by an environmentally friendly green inhibitor. <i>Research on Chemical Intermediates</i> , 2013 , 39, 2663-2677	2.8	23
195	New epoxy composite polymers as a potential anticorrosive coatings for carbon steel in 3.5% NaCl solution: Experimental and computational approaches. <i>Chemical Data Collections</i> , 2021 , 31, 100619	2.1	23
194	An experimental-coupled empirical investigation on the corrosion inhibitory action of 7-alkyl-8-Hydroxyquinolines on C35E steel in HCl electrolyte. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113973	6	22
193	Schiff's base derived from 2-acetyl thiophene as corrosion inhibitor of steel in acidic mediumPeer review under responsibility of Taibah University.View all notes. <i>Journal of Taibah University for Science</i> , 2016 , 10, 774-785	3	21
192	Practical and Theoretical Study on the Inhibitory Influences of New Azomethine Derivatives Containing an 8-Hydroxyquinoline Moiety for the Corrosion of Carbon Steel in 1 M HCl. <i>Oriental Journal of Chemistry</i> , 2018 , 34, 3016-3029	0.8	21
191	Theoretical approach to the corrosion inhibition efficiency of some quinoxaline derivatives of steel in acid media using the DFT method. <i>Research on Chemical Intermediates</i> , 2013 , 39, 1125-1133	2.8	20
190	Anticorrosion and adsorption performance of expired antibacterial drugs on Sabic iron corrosion in HCl solution: Chemical, electrochemical and theoretical approach. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115702	6	19
189	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	2.7	19
188	Isopentyltriphenylphosphonium bromideionic liquid as a newly effective corrosion inhibitor on metal-electrolyte interface in acidic medium: Experimental, surface morphological (SEM-EDX & AFM) and computational analysis. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113838	6	18
187	Investigation of inhibition by 6-bromo-3-nitroso-2-phenylimidazol[1,2-b]pyridine of the corrosion of C38 steel in 1 M HCl. <i>Research on Chemical Intermediates</i> , 2015 , 41, 913-925	2.8	17

186	Theoretical and Experimental Studies on the Corrosion Inhibition Potentials of Two Tetrakis Pyrazole Derivatives for Mild Steel in 1.0 M HCl. <i>Portugaliae Electrochimica Acta</i> , 2017 , 35, 159-178	2.4	17
185	Experimental studies and computational exploration on the 2-amino-5-(2-methoxyphenyl)-1,3,4-thiadiazole as novel corrosion inhibitor for mild steel in acidic environment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 604, 125320	5.1	17
184	Regular square planer bis-(4,4,4-trifluoro-1-(thiophen-2-yl)butane-1,3-dione)/copper(II) complex: Trans/cis-DFT isomerization, crystal structure, thermal, solvatochromism, hirshfeld surface and DNA-binding analysis. <i>Journal of Molecular Structure</i> , 2018 , 1157, 69-77	3.4	16
183	Corrosion inhibition of carbon steel in hydrochloric acid solution by some synthesized surfactants from petroleum fractions. <i>Research on Chemical Intermediates</i> , 2016 , 42, 5509-5526	2.8	16
182	Adsorption and corrosion inhibition of mild steel in hydrochloric acid solution by verbena essential oil. <i>Research on Chemical Intermediates</i> , 2013 , 39, 973-989	2.8	16
181	Electrochemical degradation of buprofezin insecticide in aqueous solutions by anodic oxidation at boron-doped diamond electrode. <i>Research on Chemical Intermediates</i> , 2013 , 39, 505-516	2.8	16
180	Synthesis of new heterocyclic systems oxazino derivatives of 8-Hydroxyquinoline: Drug design and POM analyses of substituent effects on their potential antibacterial properties. <i>Chemical Data Collections</i> , 2019 , 24, 100306	2.1	15
179	Inhibition effect of horehound (<i>Marrubium vulgare</i> L.) extract towards C38 steel corrosion in HCl solution. <i>Research on Chemical Intermediates</i> , 2013 , 39, 3291-3302	2.8	15
178	Ultrasonic synthesis of Oct. trans-BrCu(N ? N) Jahn-Teller distortion complex: XRD-properties, solvatochromism, thermal, kinetic and DNA-binding evaluations. <i>Ultrasonics Sonochemistry</i> , 2019 , 52, 428-436	8.9	14
177	Chemical, electrochemical and theoretical studies of 3-methyl-5,5'-diphenylimidazolidine-2,4-dione as corrosion inhibitor for mild steel in HCl solution. <i>Chemical Data Collections</i> , 2020 , 28, 100454	2.1	14
176	Synthesis, characterization and corrosion inhibition potential of newly benzimidazole derivatives: Combining theoretical and experimental study. <i>Surfaces and Interfaces</i> , 2020 , 18, 100442	4.1	14
175	Inhibiting effects of benzamide derivatives on the corrosion of mild steel in hydrochloric acid solution. <i>Research on Chemical Intermediates</i> , 2013 , 39, 2417-2433	2.8	14
174	Study of a cysteine derivative as a corrosion inhibitor for carbon steel in phosphoric acid solution. <i>Research on Chemical Intermediates</i> , 2014 , 40, 801-815	2.8	14
173	Molecular dynamics, DFT and electrochemical to study the interfacial adsorption behavior of new imidazo[4,5-b] pyridine derivative as corrosion inhibitor in acid medium. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 245-265	2.6	14
172	A newly synthesized quinoline derivative as corrosion inhibitor for mild steel in molar acid medium: Characterization (SEM/EDS), experimental and theoretical approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125746	5.1	14
171	DFT/electronic scale, MD simulation and evaluation of 6-methyl-2-(p-tolyl)-1,4-dihydroquinoxaline as a potential corrosion inhibition. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116539	6	14
170	4-(2-(2-(2-(2-(Pyridine-4-yl)ethylthio)ethoxy)ethylthio)ethyl)pyridine as New Corrosion Inhibitor for Mild Steel in 1.0 M HCl Solution: Experimental and Theoretical Studies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018 , 4, 1	2.9	13
169	Chemical, electrochemical, quantum, and surface analysis evaluation on the inhibition performance of novel imidazo[4,5-b] pyridine derivatives against mild steel corrosion. <i>Corrosion Science</i> , 2021 , 189, 109621	6.8	13

168	Intermolecular interactions in crystal structure, Hirshfeld surface, characterization, DFT and thermal analysis of 5-((5-bromo-1 H -indol-3-yl)methylene)-1,3-dimethylpyrimidine-2,4,6(1 H ,3 H ,5 H)-trione indole. <i>Journal of Molecular Structure</i> , 2017 , 1137, 354-361	3.4	12
167	Synthesis, spectra and X-ray crystallography of dipyridin-2-ylmethanone oxime and its CuX ₂ (oxime) ₂ complexes: Thermal, Hirshfeld surface and DFT analysis. <i>Journal of Molecular Structure</i> , 2018 , 1154, 619-625	3.4	12
166	Inhibition of carbon steel corrosion in 1 M HCl medium by potassium thiocyanatePeer review under responsibility of University of Bahrain.View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2014 , 15, 21-27		12
165	Experimental and theoretical insights on the adsorption and inhibition mechanism of (2E)-2-(acetylamino)-3-(4-nitrophenyl) prop-2-enoic acid and 4-nitrobenzaldehyde on mild steel corrosion. <i>Journal of Chemical Sciences</i> , 2020 , 132, 1	1.8	12
164	Corrosion Inhibition of Mild Steel in 0.5 M H ₂ SO ₄ Solution by Artemisia herba-alba Oil. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	12
163	Synthesis, physicochemical, thermal, and XRD/HSA interactions of mixed [Cu(Bipy)(Dipn)](X) ₂ complexes: DNA binding and molecular docking evaluation. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 3236-3248	1.6	11
162	XRD/DFT/HSA-interactions in Cu(II)Cl/phen/E ₃ diketonato complex: Physicochemical, solvatochromism, thermal and DNA-binding analysis. <i>Journal of Molecular Structure</i> , 2020 , 1210, 128000 ³⁻⁴		11
161	Acid corrosion inhibition of ferrous and non-ferrous metal by nature friendly Ethoxycarbonylmethyltriphenylphosphonium Bromide (ECMTPB): Experimental and MD simulation evaluation. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113705	6	11
160	Thiazolo thiadiazole derivatives as anti-corrosion additives for acid corrosion. <i>Chemical Data Collections</i> , 2020 , 26, 100358	2.1	11
159	Chemical composition, antioxidant, antimicrobial and antifungal activity of Moroccan Cistus Creticus leaves. <i>Chemical Data Collections</i> , 2020 , 26, 100346	2.1	11
158	Quantum chemical insight into the molecular structure of L-chemosensor 1,3-dimethyl-5-(thien-2-ylmethylene)-pyrimidine-2,4,6-(1H,3H,5H)-trione: Naked-eye colorimetric detection of copper(II) anions. <i>Journal of Theoretical and Computational Chemistry</i> , 2018 , 17, 1850005	1.8	11
157	Corrosion Inhibition Study of Brass in Simulated Cooling Water by Triazole Derivatives, Cetyltrimethylammonium Bromide and Their Mixture. <i>Arabian Journal for Science and Engineering</i> , 2016 , 41, 75-88		11
156	Benzodiazepine Derivatives as Corrosion Inhibitors of Carbon Steel in HCl Media: Electrochemical and Theoretical Studies. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 986-1000	0.9	11
155	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	5.1	11
154	Corrosion inhibition performance of 4-(prop-2-ynyl)- [1,4]-benzothiazin-3-one against mild steel in 1 M HCl solution: Experimental and theoretical studies. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25800-25818	6.7	11
153	Preparation and characterization of Cu ₂ CoSnS ₄ thin films for solar cells via co-electrodeposition technique: Effect of electrodeposition time. <i>Optik</i> , 2019 , 193, 162996	2.5	10
152	Synthesis, Experimental and Theoretical Investigation of Tetrazole Derivative as an Effective Corrosion Inhibitor for Mild Steel in 1 M HCl. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	10
151	Amino acid structure analog as a corrosion inhibitor of carbon steel in 0.5 M H ₂ SO ₄ : Electrochemical, synergistic effect and theoretical studies. <i>Chemical Data Collections</i> , 2020 , 30, 100586	2.1	10

150	Crystal structure and spectral of new hydrazine-pyran-dione derivative: DFT enol<-hydrazone tautomerization via zwitterionic intermediate, hirshfeld analysis and optical activity studies. <i>Journal of Molecular Structure</i> , 2020 , 1220, 128728	3.4	10
149	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	3.1	10
148	Inhibition of copper corrosion in acid solution by N-1-naphthylethylenediamine dihydrochloride monomethanolate: experimental and theoretical study: part-1. <i>Research on Chemical Intermediates</i> , 2012 , 38, 1079-1089	2.8	10
147	Theoretical study using DFT calculations on inhibitory action of four pyridazines on corrosion of copper in nitric acid. <i>Research on Chemical Intermediates</i> , 2012 , 38, 2327-2334	2.8	10
146	Inhibitive Action of Argan Press Cake Extract on the Corrosion of Steel in Acidic Media. <i>Portugaliae Electrochimica Acta</i> , 2012 , 30, 267-279	2.4	10
145	New nitrogen-donor pyrazole ligands for excellent liquid-liquid extraction of Fe ²⁺ ions from aqueous solution, with theoretical study. <i>Research on Chemical Intermediates</i> , 2015 , 41, 3319-3334	2.8	9
144	Thermodynamic properties and comparative studies of quinoxaline derivatives as a corrosion inhibitor for mild steel in 1M H ₂ SO ₄ . <i>Research on Chemical Intermediates</i> , 2015 , 41, 1571-1589	2.8	9
143	Adsorption and inhibition effect of 5-phenyl-1,2,4-triazole-3-thione on C38 steel corrosion in 1 M HCl. <i>Research on Chemical Intermediates</i> , 2015 , 41, 4617-4634	2.8	9
142	Synthesis, crystal structure, spectroscopic and hirshfeld surface analysis, NCI-RDG, DFT computations and antibacterial activity of new asymmetrical azines. <i>Journal of Molecular Structure</i> , 2020 , 1217, 128376	3.4	9
141	Synthesis of novel Cubane [Ni ₄ (O ² O)4(OCH ₃)4(OOH)4] cluster: XRD/HSA-interactions, spectral, DNA-binding, docking and subsequent thermolysis to NiO nanocrystals. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113756	6	9
140	Tetradentate Schiff Base Complexes of Transition Metals for Antimicrobial Activity. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 4683-4695	2.5	9
139	Inhibitive effect of imidazopyridine derivative towards corrosion of C38 steel in hydrochloric acid solution. <i>Research on Chemical Intermediates</i> , 2013 , 39, 2369-2377	2.8	9
138	Thermodynamic study of metal corrosion and inhibitor adsorption processes in copper/N-1-naphthylethylenediamine dihydrochloride monomethanolate/nitric acid system: part 2. <i>Research on Chemical Intermediates</i> , 2012 , 38, 1655-1668	2.8	9
137	Bagassa guianensis ethanol extract used as sustainable eco-friendly inhibitor for zinc corrosion in 3% NaCl: Electrochemical and XPS studies. <i>Surfaces and Interfaces</i> , 2020 , 20, 100588	4.1	9
136	Synthesis of Tetragonal Cu ₂ NiSnS ₄ Thin Film via Low-Cost Electrodeposition Method: Effect of Ni ²⁺ Molarity. <i>Journal of Electronic Materials</i> , 2020 , 49, 728-735	1.9	9
135	Novel synthesized benzodiazepine as efficient corrosion inhibitor for copper in 3.5% NaCl solution. <i>Materials Today: Proceedings</i> , 2021 , 37, 3932-3939	1.4	9
134	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	6	9
133	Synthesis and physicochemical, DFT, thermal and DNA-binding analysis of a new pentadentate NS Schiff base ligand and its [CuNS] complexes.. <i>RSC Advances</i> , 2020 , 10, 21806-21821	3.7	8

132	Synthesis and amide imidic prototropic tautomerization in thiophene-2-carbohydrazide: XRD, DFT/HSA-computation, DNA-docking, TG and isoconversional kinetics FWO and KAS models.. <i>RSC Advances</i> , 2020 , 10, 2037-2048	3.7	8
131	Carob seed oil: an efficient inhibitor of C38 steel corrosion in hydrochloric acid. <i>International Journal of Industrial Chemistry</i> , 2012 , 3, 25	3.1	8
130	New innovation in order to recover the polyphenols of olive mill wastewater extracts for use as a biopesticide against the <i>Euphyllura olivina</i> and <i>Aphis citricola</i> . <i>Research on Chemical Intermediates</i> , 2013 , 39, 4303-4313	2.8	8
129	Moroccan, Mauritania, and senegalese gum Arabic variants as green corrosion inhibitors for mild steel in HCl: Weight loss, electrochemical, AFM and XPS studies. <i>Journal of Molecular Liquids</i> , 2022 , 347, 118354	6	8
128	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	2.5	8
127	Synthesis, characterization, crystal structure, Hirshfeld surface analysis, antioxidant properties and DFT calculations of a novel pyrazole derivative: Ethyl 1-(2,4-dimethylphenyl)-3-methyl-5-phenyl-1H-pyrazole-4-carboxylate. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129799	3.4	8
126	Synthesis, Characterization, Biocomputational Modeling and Antibacterial Study of Novel Pyran Based on 8-Hydroxyquinoline. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 5533-5542	2.5	8
125	Effect of fluoride on corrosion behavior of UNS N08904 stainless steel in polluted phosphoric acid. <i>Journal of Molecular Liquids</i> , 2018 , 265, 390-397	6	7
124	Quantum chemical study of some triazoles as inhibitors of corrosion of copper in acid media. <i>Research on Chemical Intermediates</i> , 2013 , 39, 1279-1289	2.8	7
123	Experimental and first-principles study of a new hydrazine derivative for DSSC applications. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129799	3.4	7
122	Corrosion inhibition effect of 5-(4-methylpiperazine)-methylquinoline-8-ol on carbon steel in molar acid medium. <i>Inorganic Chemistry Communication</i> , 2021 , 123, 108366	3.1	7
121	Experimental and empirical assessment of two new 8-hydroxyquinoline analogs as effective corrosion inhibitor for C22E steel in 1 M HCl. <i>Journal of Molecular Liquids</i> , 2021 , 325, 114644	6	7
120	Appraisal of corrosion inhibiting ability of new 5-N-(alkylamino)methylquinolin-8-ol analogs for C40E steel in sulfuric acid. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 30246-30266	6.7	7
119	Synthesis, bioinformatics and biological evaluation of novel pyridine based on 8-hydroxyquinoline derivatives as antibacterial agents: DFT, molecular docking and ADME/T studies. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130934	3.4	7
118	Insight into the corrosion inhibition of new bis-quinolin-8-ols derivatives as highly efficient inhibitors for C35E steel in 0.5M H ₂ SO ₄ . <i>Journal of Molecular Liquids</i> , 2021 , 342, 117333	6	7
117	Experimental and theoretical study of new kesterite Cu ₂ NiGeS ₄ thin film synthesized via spray ultrasonic technic. <i>Applied Surface Science</i> , 2020 , 527, 146800	6.7	6
116	The inhibitory effect of two 5-alkylthio-8-hydroxyquinoline salts on steel C22E in a molar electrolyte of hydrochloric acid: Experimental and theoretical studies. <i>Surfaces and Interfaces</i> , 2020 , 20, 100575	4.1	6
115	Studies on the inhibitive effect of potassium ferrocyanide on the corrosion of steel in phosphoric acid. <i>Research on Chemical Intermediates</i> , 2013 , 39, 3475-3485	2.8	6

114	Pesticide residue levels in green beans cultivated in Souss Masa valley (Morocco) after multiple applications of bifenthrin and Ecyhalothrin. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012 , 89, 638-43	2.7	6
113	Inermolecular interaction in [C ₆ H ₁₀ N ₃] ₂ [CoCl ₄] complex: Synthesis, XRD/HSA relation, spectral and catecholase catalytic analysis. <i>Journal of Molecular Structure</i> , 2020 , 1217, 128422	3.4	6
112	Evaluation of Melissa Officinalis Extract and Oil as Eco-friendly Corrosion Inhibitor for Carbon Steel in Acidic Chloride Solutions. <i>Oriental Journal of Chemistry</i> , 2016 , 32, 1909-1921	0.8	6
111	Bio-active corrosion inhibitor based on 8-hydroxyquinoline-grafted-Alginate: Experimental and computational approaches. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114615	6	6
110	Insight into the corrosion inhibition property of two new soluble and non-toxic xanthenbenzoate derivatives. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116610	6	6
109	Adsorption of a cationic dye (Safranin) by artificial cationic resins Amberlite [®] IRC-50: Equilibrium, kinetic and thermodynamic study. <i>Chemical Data Collections</i> , 2021 , 35, 100756	2.1	6
108	Effect of hydrocarbon chain length for acid corrosion inhibition of mild steel by three 8-(n-bromo-R-alkoxy)quinoline derivatives: Experimental and theoretical investigations. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130976	3.4	6
107	Synthesis, structural confirmation, antibacterial properties and bio-informatics computational analyses of new pyrrole based on 8-hydroxyquinoline. <i>Journal of Molecular Structure</i> , 2022 , 1259, 132683	3.4	6
106	Theoretical investigation using DFT of quinoxaline derivatives for electronic and photovoltaic effects. <i>Heliyon</i> , 2020 , 6, e03620	3.6	5
105	Chitosan-kaolinite clay composite as durable coating material for slow release NPK fertilizer.. <i>International Journal of Biological Macromolecules</i> , 2021 , 195, 424-432	7.9	5
104	Experimental, Density Functional Theory, and Dynamic Molecular Studies of Imidazopyridine Derivatives as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid. <i>Surface Engineering and Applied Electrochemistry</i> , 2021 , 57, 233-254	0.8	5
103	Equilibrium and kinetic studies for removal of antiviral sofosbuvir from aqueous solution by adsorption on expanded perlite: Experimental, modelling and optimization. <i>Surfaces and Interfaces</i> , 2021 , 23, 100962	4.1	5
102	XRD/HSA, noncovalent interactions and influence of solvent polarity on spectral properties of dithiocarbazate schiff base and its cis-Cu(II) complex: Experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115551	6	5
101	Synthesis and antimicrobial activity evaluation of some new 7-substituted quinolin-8-ol derivatives: POM analyses, docking, and identification of antibacterial pharmacophore sites. <i>Chemical Data Collections</i> , 2021 , 31, 100593	2.1	5
100	Quinoxaline derivatives as anticorrosion additives for metals. <i>Corrosion Reviews</i> , 2021 , 39, 79-92	3.2	5
99	A new mixed pyrazole-diamine/Ni(II) complex, Crystal structure, physicochemical, thermal and antibacterial investigation. <i>Journal of Molecular Structure</i> , 2021 , 1236, 130304	3.4	5
98	Crystal structure, MEP/DFT/XRD, thione \rightleftharpoons thiol tautomerization, thermal, docking, and optical/TD-DFT studies of (E)-methyl 2-(1-phenylethylidene)-hydrazinecarbodithioate ligand. <i>Journal of Molecular Structure</i> , 2021 , 1238, 130461	3.4	5
97	Performance of curing epoxy resin as potential anticorrosive coating for carbon steel in 3.5% NaCl medium: Combining experimental and computational approaches. <i>Chemical Physics Letters</i> , 2021 , 783, 139081	2.5	5

96	Chalcone oxime derivatives as new inhibitors corrosion of carbon steel in 1 M HCl solution. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116398	6	5
95	Synthesis and characterization of Cu ₂ CoSnS ₄ thin film via electrodeposition technique for solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12487-12492	2.1	4
94	Preparation and characterization of Cu ₂ FeGeS ₄ thin-film synthesized via spray ultrasonic method and DFT study. <i>Materials Letters</i> , 2020 , 275, 128070	3.3	4
93	Pyrazole carbohydrazide as corrosion inhibitor for mild steel in HCl medium: Experimental and theoretical investigations. <i>Surfaces and Interfaces</i> , 2020 , 20, 100578	4.1	4
92	Deoxynivalenol contamination in Tunisian barley in the 2009 harvest. <i>Food Additives and Contaminants: Part B Surveillance</i> , 2011 , 4, 205-11	3.3	4
91	Synthesis and characterization of new quinoxaline derivatives of 8-hydroxyquinoline as corrosion inhibitors for mild steel in 1.0 M HCl medium. <i>Journal of Materials and Environmental Science</i> , 2018 , 9, 172-188		4
90	Anti-corrosion performance of pyran-2-one derivatives for mild steel in acidic medium: Electrochemical and theoretical study. <i>Chemical Data Collections</i> , 2021 , 32, 100655	2.1	4
89	Crystal interaction, Hirshfeld surface analysis, and spectral analysis of new Dithiocarbamate Schiff bases derivative (LH) and its neutral cis-Cu(L) ₂ complex. <i>Journal of Molecular Structure</i> , 2021 , 1224, 129207	2.4	4
88	One-Pot Microwave-Assisted Synthesis of Water-Soluble Pyran-2,4,5-triol Glucose Amine Schiff Base Derivative: XRD/HSA Interactions, Crystal Structure, Spectral, Thermal and a DFT/TD-DFT. <i>Crystals</i> , 2021 , 11, 117	2.3	4
87	Petra/Osiris/Molinspiration and Molecular Docking Analyses of 3-Hydroxy-Indolin-2-one Derivatives as Potential Antiviral Agents. <i>Current Computer-Aided Drug Design</i> , 2021 , 17, 123-133	1.4	4
86	Electrochemical and theoretical considerations for interfacial adsorption of novel long chain acid pyrazole for mild steel conservation in 1 M HCl medium. <i>Chemical Data Collections</i> , 2021 , 31, 100638	2.1	4
85	Insight into the corrosion inhibition of new benzodiazepine derivatives as highly efficient inhibitors for mild steel in 1M HCl: Experimental and theoretical study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127428	5.1	4
84	Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazolone keto-enol derivative. <i>Journal of Molecular Structure</i> , 2022 , 1247, 131308	3.4	4
83	Synthesis of aza-pseudopeptides and the evaluation of their inhibiting efficacy of mild steel corrosion in 1.0 M HCl. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017 , 53, 928-936	0.9	3
82	Chemical composition and antibacterial activity of the essential oil of Myrtus communis leaves. <i>Karbala International Journal of Modern Science</i> , 2020 , 6,	4.6	3
81	Study of adsorption mechanism of chalcone derivatives on mild steel-sulfuric acid interface. <i>Journal of Molecular Liquids</i> , 2020 , 318, 113890	6	3
80	Synthesis and anti-corrosion characteristics of new 8-quinolinol analogs with amide-substituted on C35E steel in acidic medium: Experimental and computational ways. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115224	6	3
79	Synthesis and XRD of Novel Ni ₄ (μ ₃ -O) ₄ Twist Cubane Cluster Using Three NNO Mixed Ligands: Hirshfeld, Spectral, Thermal and Oxidation Properties. <i>Journal of Cluster Science</i> , 2021 , 32, 227-234	3	3

78	Cu(II) coordination polymer bearing diazenyl-benzoic ligand: Synthesis, physico-chemical and XRD/HSA-interactions. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129604	3.4	3
77	The New Organic Molecule-Based Epoxy Resin as an Effective Corrosion Inhibitor for Mild Steel in Sulfuric Acid Medium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 199-210	0.9	3
76	One minute microwave synthesis of [O ₂ N-Ph-CH ₂ -Py] _n [N(Me) ₂] _n + [Cl] ⁻ Ionic liquid: XRD/HSA-interactions, physicochemical, optical, thermal and A DFT/TD-DFT analysis. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116737	6	3
75	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	6	3
74	Carbon steel corrosion inhibition in H ₂ SO ₄ 0.5 M medium by thiazole-based molecules: Weight loss, electrochemical, XPS and molecular modeling approaches. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127556	5.1	3
73	Insight of development of two cured epoxy polymer composite coatings as highly protective efficiency for carbon steel in sodium chloride solution: DFT, RDF, FFV and MD approaches. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119406	6	3
72	Synthesis and XRD of neutral NiL complex using unsymmetrical ONNO tetradentate schiff base: Hirschfeld, spectral, DFT and thermal analysis. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 1280-1291	1.6	2
71	Structural, electronic and optical properties of a tetragonal-stannite Cu ₂ CoGeS ₄ thin film synthesized by a low-cost spray method: Experimental and theoretical study. <i>Ceramics International</i> , 2020 , 46, 23127-23133	5.1	2
70	Essential Oil of <i>Salvia officinalis</i> as Novel Eco-Friendly Inhibitor for Carbon Steel in HCl Solution: Weight Loss, Electrochemical and XPS Studies. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 438-449	0.9	2
69	Erosion-Corrosion Effect on the Alloy 316L in Polluted Phosphoric Acid. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	2
68	Thermal, structural and corrosion inhibition performances of a new phosphate glasses on mild steel in HCl medium. <i>Chemical Data Collections</i> , 2019 , 24, 100305	2.1	2
67	Vibrational spectral analysis, XRD-structure, computation, exo-endo isomerization and non-linear optical crystal of 5-((5-chloro-1-indol-2-yl)methylene)-1,3-diethyl-2-thioxodihydro-pyrimidine-4,6(1,5)-dione. <i>BMC Chemistry</i> , 2019 , 13, 11	3.7	2
66	Electrocatalytic Oxidation of Paraacetaminophenol on a Graphite Electrode Modified with Iron Oxides. <i>Portugaliae Electrochimica Acta</i> , 2019 , 37, 383-391	2.4	2
65	One-pot liquid microwave-assisted green synthesis of neutral trans-Cl ₂ Cu(NNOH) ₂ : XRD/HSA-interactions, antifungal and antibacterial evaluations. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108292	3.1	2
64	Synthesis of Novel Tetra(μ-Methoxo) Bridged with [Cu(II)-O-Cd(II)] Double-Open-Cubane Cluster: XRD/HSA-Interactions, Spectral and Oxidizing Properties. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
63	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	0.9	2
62	Extended Boron Dioxide [N ₂ NBF ₂] Complex, Crystal Structure, Liquid NMR, Spectral, XRD/HSA Interactions: A DFT and TD-DFT Study. <i>Crystals</i> , 2021 , 11, 606	2.3	2
61	Design, XRD/HSA-interactions, spectral, thermal, Solvatochromism and DNA-binding of two [Cu(phen)(triene)]Br ₂ complexes: Experimental and DFT/TD-DFT investigations. <i>Journal of Molecular Structure</i> , 2021 , 1231, 129983	3.4	2

60	Insights into the inhibition mechanism of 2,5-bis(4-pyridyl)-1,3,4-oxadiazole for carbon steel corrosion in hydrochloric acid pickling via experimental and computational approaches. <i>Journal of Molecular Liquids</i> , 2021 , 342, 116958	6	2
59	Design, structural, C _H ⋯N ₂ supramolecular interactions and computational investigations of Cd(N ₂ N ₂)X ₂ complexes based on an asymmetrical 1,2-diamine ligand: physicochemical and thermal analysis. <i>Journal of Coordination Chemistry</i> , 2019 , 72, 3285-3297	1.6	2
58	8-hydroxyquinoline grafted triazole derivatives as corrosion inhibitors for carbon steel in H ₂ SO ₄ solution: Electrochemical and theoretical studies. <i>Ionics</i> , 2021 , 27, 2267-2288	2.7	2
57	1,3-Bis{[(E)-(9-ethyl-9H-carbazol-3-yl)methylene]amino}propan-2-ol. <i>MolBank</i> , 2018 , 2018, M986	0.5	2
56	Performance evaluation of newly synthesized bi-pyrazole derivatives as corrosion inhibitors for mild steel in acid environment. <i>Journal of Molecular Structure</i> , 2022 , 1261, 132925	3.4	2
55	Investigation of the cationic resin Am ⁺ IRC-50 as a potential adsorbent of Co (II): Equilibrium isotherms and thermodynamic studies. <i>Chemical Data Collections</i> , 2022 , 39, 100879	2.1	2
54	The adsorption mechanism of the anionic and cationic dyes of the cationic resin A ⁺ IRC-50, kinetic study and theoretical investigation using DFT. <i>Journal of the Indian Chemical Society</i> , 2022 , 99, 100512		2
53	Crystal structure of (E)-4-((2-fluoro-3-(trifluoromethyl)benzylidene)amino)-3-methyl-1H-1,2,4-triazole-5(4H)-thione, C ₁₁ H ₈ F ₄ N ₄ S. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019 , 234, 343-344	0.2	1
52	5,5-DIPHENYL-2-THIOXOIMIDAZOLIDIN-4-ONE METHODOLOGICAL MECHANISM TO CORROSION INHIBITION FOR MILD STEEL DISSOLUTION IN HCL: DFTS, MOLECULAR DYNAMICS AND EXPERIMENTAL PROCEDURES. <i>Surface Review and Letters</i> , 2020 , 27, 2050005	1.1	1
51	Facile synthesis of the wurtz stannite (orthorhombic) Cu ₂ MnGeS ₄ thin film via spray ultrasonic method: Structural, Raman, optical and electronic study. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156216	5.7	1
50	Theoretical and experimental studies of tin electrodeposition. <i>Surfaces and Interfaces</i> , 2020 , 19, 100480	4.1	1
49	Development of New Pyrimidine Derivative Inhibitor for Mild Steel Corrosion in Acid Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022 , 8, 1	2.9	1
48	Tyrosine as a novel potential stabilizer in an electroless Ni-P bath exempt of trisodium citrate as complexing agent: Chemical baths optimization and comparative study. <i>Chemical Data Collections</i> , 2022 , 37, 100801	2.1	1
47	Biological properties and chemical profiling of essential oils of Thymus (vulgaris, algeriensis and broussonettii) grown in Morocco. <i>Chemical Data Collections</i> , 2022 , 37, 100797	2.1	1
46	Exploitation of a new green inhibitor against mild steel corrosion in HCl: Experimental, DFT and MD simulation approach. <i>Journal of Molecular Liquids</i> , 2021 , 349, 118102	6	1
45	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> , 2021 , 1	2.6	1
44	Synthesis, physicochemical, optical, thermal and TD-DFT of (E)-N ² -((9-ethyl-9H-carbazol-3-yl)-methylene)-4-methyl-benzene-sulfonohydrazide (ECMMBSH): Naked eye and colorimetric Cu ²⁺ ion chemosensor. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101633	3.6	1
43	The Effect of the Moroccan Salvadora Persica Extract on the Corrosion Behavior of the Ni-Cr Non-precious Dental Alloy in Artificial Saliva. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	1

42	Crystal structure, spectral, thermal and experimental/computational investigation of Anthracen-benzo[d]thiazol-2-amine new Schiff base derivative. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129824	3.4	1
41	Synthesis, Identification, Antibacterial Activity, ADME/T and 1BNA-Docking Investigations of 8-Quinolinol Analogs Bearing a Benzimidazole Moiety. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	1
40	The influence of low concentration of 2-(5-methyl-2-nitro-1H-imidazol-1-yl)ethyl benzoate on corrosion brass in 0.5 M H ₂ SO ₄ solution. <i>Surfaces and Interfaces</i> , 2021 , 24, 101088	4.1	1
39	A comparative study of the antioxidant activity of two Moroccan prickly pear cultivars collected in different regions. <i>Chemical Data Collections</i> , 2021 , 31, 100637	2.1	1
38	Spectroscopic Insight into Tetrahedrally Distorted Square Planar Copper(II) Complex: XRD/HSA, Physicochemical, DFT, and Thermal Investigations. <i>Crystals</i> , 2021 , 11, 1179	2.3	1
37	Mitigation effect of novel bipyrazole ligand and its copper complex on the corrosion behavior of steel in HCl: Combined experimental and computational studies. <i>Chemical Physics Letters</i> , 2022 , 795, 139532	2.5	1
36	Experimental and theoretical examinations of two quinolin-8-ol-piperazine derivatives as organic corrosion inhibitors for C35E steel in hydrochloric acid. <i>Journal of Molecular Liquids</i> , 2022 , 354, 118900	6	1
35	Preventive behavior of phenol Schiff bases on mild steel corrosion in acidic medium part A: Experimental and molecular modeling approach. <i>Chemical Data Collections</i> , 2022 , 39, 100864	2.1	1
34	Investigation of the corrosion of stainless steel, copper and aluminium in sunflower biodiesel solution: Experimental and theoretical approaches. <i>Chemical Data Collections</i> , 2022 , 100870	2.1	1
33	New Green Anti-corrosion Inhibitor of Citrus Peels for Mild Steel in 1M HCl: Experimental and Theoretical Approaches. <i>Chemistry Africa</i> ,	2.2	1
32	Chemical and Physical Effects of Fluoride on the Corrosion of Austenitic Stainless Steel in Polluted Phosphoric Acid. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	0
31	A novel investigation on the cast iron corrosion in polluted phosphoric acid. <i>Surfaces and Interfaces</i> , 2020 , 19, 100481	4.1	0
30	Synthesis, structural characterization, Hirshfeld surface analysis and anti-corrosion on mild steel in 1M HCl of ethyl 2-(3-methyl-2-oxo-1,2-dihydroquinoxaline-1-yl)acetate. <i>Journal of Molecular Structure</i> , 2021 , 1251, 132047	3.4	0
29	Aminothiazolyl coumarin derivatives as effectual inhibitors to alleviate corrosion on mild steel in 0.5 M H ₂ SO ₄ . <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 1323-1344	2.6	0
28	Corrosion inhibition behavior of chalcone oxime derivatives on carbon steel in 0.5 M H ₂ SO ₄ . <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 1755	2.6	0
27	Ultrasonic synthesis, XRD/HSA-interactions, DFT, time-dependence spectrophotometric stability and thermal analysis of the water-bridge [[Cu(phen)2Br]Br·H ₂ O} complex. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101464	3.6	0
26	Corrosion Effectiveness of 5-(4-Phenylpiperazin-1-yl) methyl) quinolin-8-ol for Carbon Steel in 1.0M HCl. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022 , 8, 1	2.9	0
25	Investigation of the Effect of MoO ₄ ²⁻ and Co ²⁺ up on Electroless Ni-Mo-P and Ni-Co-P Alloys in Acidic Solution Using Tyrosine as Stabilizer: Characterization and Electrochemical Study. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	0

24	Isoxazoline Derivatives as Inhibitors for Mild Steel Corrosion in 1M H ₂ SO ₄ : Computational and Experimental Investigations. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	○
23	Effects of co-electrodeposition potential on the physicochemical properties of Cu ₂ CoSnS ₄ thin films enriched by a theoretical calculation. <i>Optik</i> , 2022 , 258, 168886	2.5	○
22	Experimental and theoretical investigations of two quinolin-8-ol derivatives as inhibitors for carbon steel in 1M HCl solution. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 165, 110699	3.9	○
21	Effects of copper concentration on the properties of Cu ₂ CoSnS ₄ thin films co-electrodeposited on the FTO substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 12016	2.1	○
20	Synthesis, Structural, Biocomputational Modeling and Antifungal Activity of Novel Armed pyrazoles. <i>Journal of Molecular Structure</i> , 2022 , 133156	3.4	○
19	Synthesis of novel hybrid decavanadate material (NH ₄) ₂ (H ₂ en) ₂ {V ₁₀ O ₂₈ }.4H ₂ O: Characterization, anticorrosion and biological activities. <i>Materials Chemistry and Physics</i> , 2022 , 126211	4.4	○
18	The adsorption of Tenofovir in aqueous solution on activated carbon produced from maize cobs: Insights from experimental, molecular dynamics simulation, and DFT calculations. <i>Chemical Physics Letters</i> , 2022 , 139676	2.5	○
17	Effect of the extraction technique on the bioactive compounds and the antioxidant capacity of the <i>Chamaerops humilis</i> L. fruit (pulp and seeds). <i>Chemical Data Collections</i> , 2022 , 100882	2.1	○
16	Multidimensional analysis for corrosion inhibition by new pyrazoles on mild steel in acidic environment: Experimental and computational approach. <i>Chemical Data Collections</i> , 2022 , 40, 100885	2.1	○
15	Bisquinoline analogs as corrosion inhibitors for carbon steel in acidic electrolyte: Experimental, DFT, and molecular dynamics simulation approaches. <i>Journal of Molecular Structure</i> , 2022 , 133389	3.4	○
14	Insight into the corrosion inhibition performance of two quinoline-3-carboxylate derivatives as highly efficient inhibitors for mild steel in acidic medium: Experimental and theoretical evaluations. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119470	6	○
13	Crystal structure of 5-(4-fluorophenyl)-4-methyl-2,4-dihydro-3H-1,2,4-triazole-3-thione, C ₉ H ₈ FN ₃ S. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019 , 234, 345-346	0.2	
12	Crystal structure of 4,4-dimethyl-2-(trifluoromethyl)-4,5-dihydro-1H-imidazole, C ₆ H ₉ F ₃ N ₂ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019 , 234, 579-580	0.2	
11	One Pot Ultrasonic Assisted {[Ni(tptz)Cl(H ₂ O) ₂][Ni(tptz)(H ₂ O) ₃]}·3Cl·5H ₂ O Complex Formation Using Triazine Ligand, XRD/HSA-Interactions, and Spectral and Thermal Investigation. <i>Crystals</i> , 2021 , 11, 1474	2.3	
10	Reactivity and Fe-complexation investigation by computational simulation studies on phenyltetrazole derivatives as mild steel corrosion inhibitors in aqueous acidic medium. <i>Journal of Molecular Liquids</i> , 2021 , 349, 118169	6	
9	Synthesis, physicochemical, thermal, XDR/HSA-interactions of Trans-(1E,2E)-Benzil-O,O-dimethylsulfonyl dioxime: Cis-trans isomerization, DFT and TD-DFT investigation. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101298	3.6	
8	Toxicological and Pharmacological Studies of a Crystal Structure Derivative of 8-Hydroxyquinoline. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	
7	Chemical, Electrochemical, and Surface Study on Microbial Attack of CoCrMo Dental Alloy by <i>Streptococcus mutans</i> . <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	

- 6 Evolution of 307 L Stainless Steel Corrosion on the Oxidative Stability of Biodiesel During Storage. *Journal of Bio- and Tribo-Corrosion*, **2021**, 7, 1 2.9
- 5 Advances in the synthesis and use of 8-hydroxyquinoline derivatives as effective corrosion inhibitors for steel in acidic medium **2022**, 335-355
- 4 Behavior of clay intercalated by Ca²⁺ ions on abrasion-corrosion of Nicrofer 3127 alloy in polluted phosphoric acid medium. *Ionics*, **2022**, 28, 2489 2.7
- 3 Structural study and thermal stability of Artemetin extracted from *Artemisia absinthium* L.. *Chemical Data Collections*, **2022**, 100880 2.1
- 2 Comparative study of Pd-based electrocatalysts decorated on hybrid carbon supports towards methanol oxidation. *Journal of King Saud University - Science*, **2022**, 102118 3.6
- 1 Development process for eco-friendly corrosion inhibitors **2022**, 27-42