

Abdelkader Zarrouk

List of Publications by Year in Descending Order

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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	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
256	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
255	Biological properties and chemical profiling of essential oils of <i>Thymus (vulgaris, algeriensis and broussonettii)</i> grown in Morocco. <i>Chemical Data Collections</i> , 2022 , 37, 100797	2.1	1
254	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
253	Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol [keto-enol derivative. <i>Journal of Molecular Structure</i> , 2022 , 1247, 131308	3.4	4
252	Advances in the synthesis and use of 8-hydroxyquinoline derivatives as effective corrosion inhibitors for steel in acidic medium 2022 , 335-355		
251	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
250	Behavior of clay intercalated by Ca ²⁺ ions on abrasion-corrosion of Nicrofer 3127 alloy in polluted phosphoric acid medium. <i>Ionics</i> , 2022 , 28, 2489	2.7	
249	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
248	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
247	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	0
246	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	0
245	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
244	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
243	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
242	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
241	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	0

240	Synthesis, Structural, Biocomputational Modeling and Antifungal Activity of Novel Armed pyrazoles. <i>Journal of Molecular Structure</i> , 2022 , 133156	3.4	0
239	Structural study and thermal stability of Artemetin extracted from <i>Artemisia absinthium</i> L.. <i>Chemical Data Collections</i> , 2022 , 100880	2.1	
238	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	0
237	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	0
236	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
235	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
234	Comparative study of Pd-based electrocatalysts decorated on hybrid carbon supports towards methanol oxidation. <i>Journal of King Saud University - Science</i> , 2022 , 102118	3.6	
233	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	0
232	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
231	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	0
230	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	0
229	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	0
228	Development process for eco-friendly corrosion inhibitors 2022 , 27-42		
227	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
226	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
225	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	
224	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	
223	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

222	Synthesis, physicochemical, optical, thermal and TD-DFT of (E)-N ² -((9-ethyl-9H-carbazol-3-yl)-methylene)-4-methyl-benzene-sulfonylhydrazide (ECMMBSH): Naked eye and colorimetric Cu ²⁺ ion chemosensor. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101633	3.6	1
221	The Effect of the Moroccan <i>Salvadora Persica</i> Extract on the Corrosion Behavior of the NiCr Non-precious Dental Alloy in Artificial Saliva. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	1
220	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
219	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	
218	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
217	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
216	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
215	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
214	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
213	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
212	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
211	Anticorrosion and adsorption performance of expired antibacterial drugs on Sabc iron corrosion in HCl solution: Chemical, electrochemical and theoretical approach. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115702	6	19
210	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
209	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
208	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
207	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
206	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
205	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

204	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
203	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
202	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
201	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
200	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 , 1225, 129350	3.4	8
199	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
198	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
197	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
196	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
195	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	3.4	4
194	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
193	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
192	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
191	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	
190	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
189	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
188	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
187	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

186	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
185	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
184	Quinoxaline derivatives as anticorrosion additives for metals. <i>Corrosion Reviews</i> , 2021 , 39, 79-92	3.2	5
183	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
182	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
181	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
180	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
179	Ultrasonic synthesis, XRD/HSA-interactions, DFT, time-dependence spectrophotometric stability and thermal analysis of the water-bridge {[Cu(phen)2Br]BrH ₂ O} complex. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101464	3.6	0
178	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	6.2	9
177	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
176	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
175	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
174	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
173	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
172	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
171	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
170	Evolution of 307 L Stainless Steel Corrosion on the Oxidative Stability of Biodiesel During Storage. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	
169	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

168	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 , 337, 116492	6	28
167	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
166	One minute microwave synthesis of [O ₂ N-Ph-CH ₂ -Py] ⁺ [N(Me) ₂] ⁺ [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
165	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
164	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
163	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
162	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
161	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
160	Carbon steel corrosion inhibition in H ₂ SO ₄ 0.5M 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
159	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
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	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

150	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
149	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
148	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
147	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
146	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
145	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
144	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
143	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
142	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
141	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
140	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
139	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
138	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
137	Theoretical investigation using DFT of quinoxaline derivatives for electronic and photovoltaic effects. <i>Heliyon</i> , 2020 , 6, e03620	3.6	5
136	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
135	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
134	XRD/DFT/HSA-interactions in Cu(II)Cl/phen/Ediketonato complex: Physicochemical, solvatochromism, thermal and DNA-binding analysis. <i>Journal of Molecular Structure</i> , 2020 , 1210, 128000	3.4	11
133	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

132	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
131	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
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5	Synthesis, Identification, Antibacterial Activity, ADME/T and 1BNA-Docking Investigations of 8-Quinololinol Analogs Bearing a Benzimidazole Moiety. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	1
4	Toxicological and Pharmacological Studies of a Crystal Structure Derivative of 8-Hydroxyquinoline. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	
3	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
2	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	0
1	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