

# Eno E Ebenso

## List of Publications by Year in descending order

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343  
papers

20,123  
citations

7096

78  
h-index

17592

121  
g-index

359  
all docs

359  
docs citations

359  
times ranked

6989  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in epoxy resins as corrosion inhibitors: design and performance. Journal of Adhesion Science and Technology, 2023, 37, 923-944.	2.6	10
2	Chemical modification of epoxy prepolymers as anticorrosive materials: a review. , 2022, , 273-288.		0
3	Fundamentals of corrosion chemistry. , 2022, , 25-45.		4
4	Ultrasound and microwave heating for the synthesis of green corrosion inhibitors: a literature study. , 2022, , 303-319.		1
5	Epoxy coating as effective anti-corrosive polymeric material for aluminum alloys: Formulation, electrochemical and computational approaches. Journal of Molecular Liquids, 2022, 346, 117886.	4.9	55
6	Corrosion inhibition of steel using different families of organic compounds: Past and present progress. Journal of Molecular Liquids, 2022, 348, 118373.	4.9	33
7	Editorial: Rising Stars: Africa. Frontiers in Chemistry, 2022, 10, 851125.	3.6	0
8	Utilization of ZnO-based materials as anticorrosive agents: a review. , 2022, , 161-182.		3
9	Development of QSAR-based (MLR/ANN) predictive models for effective design of pyridazine corrosion inhibitors. Materials Today Communications, 2022, 30, 103163.	1.9	18
10	Electrochemical evaluation of Cd <sup>2+</sup> and Hg <sup>2+</sup> ions in water using ZnO/Cu <sub>2</sub> ONPs/PANI modified SPCE electrode. Sensing and Bio-Sensing Research, 2022, 35, 100476.	4.2	13
11	Computational insights into quinoxaline-based corrosion inhibitors of steel in HCl: Quantum chemical analysis and QSPR-ANN studies. Arabian Journal of Chemistry, 2022, 15, 103870.	4.9	23
12	Electrochemical sensor for the detection of dopamine using carbon quantum dots/copper oxide nanocomposite modified electrode. FlatChem, 2022, 33, 100372.	5.6	38
13	Viscosity of epoxy resins based on aromatic diamines, glucose, bisphenolic and bio-based derivatives: a comprehensive review. Journal of Polymer Research, 2022, 29, .	2.4	8
14	Recent progress on the anticorrosion activities of acridine and acridone derivatives: A review. Journal of Molecular Liquids, 2022, 361, 119686.	4.9	8
15	Influence of temperature and concentration on the molecular interactions of pyrrolidinium-based ionic liquid with water and alcohols: An experimental and DFT studies. Journal of Molecular Liquids, 2022, 360, 119554.	4.9	3
16	Synthesis, physicochemical properties, theoretical and electrochemical studies of tetraglycidyl methylenedianiline. Journal of Molecular Structure, 2022, 1265, 133508.	3.6	20
17	Theoretical Study and Adsorption Behavior of Urea on Mild Steel in Automotive Gas Oil (AGO) Medium. Lubricants, 2022, 10, 157.	2.9	11
18	Essential oil of Dysphania ambrosioides as a green corrosion inhibitor for mild steel in HCl solution. Journal of Molecular Liquids, 2022, 363, 119839.	4.9	37

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19	Designing of phosphorous based highly functional dendrimeric macromolecular resin as an effective coating material for carbon steel in <math>\text{NaCl}</math>: Computational and experimental studies. Journal of Applied Polymer Science, 2021, 138, 49673.	2.6	38
20	Recent developments in sustainable corrosion inhibition using ionic liquids: A review. Journal of Molecular Liquids, 2021, 321, 114484.	4.9	51
21	N-substituted carbazoles as corrosion inhibitors in microbiologically influenced and acidic corrosion of mild steel: Gravimetric, electrochemical, surface and computational studies. Journal of Molecular Structure, 2021, 1223, 129328.	3.6	22
22	Phenolic fraction of Ammi visnaga extract as environmentally friendly antioxidant and corrosion inhibitor for mild steel in acidic medium. Journal of Molecular Liquids, 2021, 323, 114950.	4.9	45
23	Experimental, adsorption, quantum chemical and molecular dynamics simulation studies on the corrosion inhibition performance of Vincamine on J55 steel in acidic medium. Journal of Molecular Structure, 2021, 1227, 129533.	3.6	29
24	Insights into corrosion inhibition mechanism of mild steel in 1% M HCl solution by quinoxaline derivatives: electrochemical, SEM/EDAX, UV-visible, FT-IR and theoretical approaches. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125810.	4.7	48
25	Challenges and advantages of using plant extract as inhibitors in modern corrosion inhibition systems: Recent advancements. Journal of Molecular Liquids, 2021, 321, 114666.	4.9	140
26	Molecularly imprinted polymers (MIPs) based electrochemical sensors for the determination of catecholamine neurotransmitters – Review. Electrochemical Science Advances, 2021, 1, e2000026.	2.8	27
27	Recent developments in sustainable corrosion inhibitors: design, performance and industrial scale applications. Materials Advances, 2021, 2, 3806-3850.	5.4	129
28	Molecular modelling of compounds used for corrosion inhibition studies: a review. Physical Chemistry Chemical Physics, 2021, 23, 19987-20027.	2.8	78
29	Thiol (-SH) substituent as functional motif for effective corrosion protection: A review on current advancements and future directions. Journal of Molecular Liquids, 2021, 324, 115111.	4.9	17
30	Electrochemical Detection of Endosulfan Using an AONP-PANI-SWCNT Modified Glassy Carbon Electrode. Materials, 2021, 14, 723.	2.9	22
31	Dendrimeric Epoxy Resins Based on Hexachlorocyclotriphosphazene as a Reactive Flame Retardant Polymeric Materials: A Review. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3240-3261.	3.7	23
32	Environmental, safety and economic risks of Covid-19 pandemic in petroleum industries: A prospective. Journal of Petroleum Science and Engineering, 2021, 198, 108161.	4.2	8
33	Interference Free Simultaneous Detection of Dihydroxy Benzene Isomers at Cost-effective and Reliable Celestine Blue Modified Glassy Carbon Electrode. ChemistrySelect, 2021, 6, 2379-2386.	1.5	8
34	Understanding the role of Dimethylformamide as co-solvents in the dissolution of cellulose in ionic liquids: Experimental and theoretical approach. Journal of Molecular Liquids, 2021, 328, 115392.	4.9	19
35	Simultaneous electrochemical sensing of dihydroxy benzene isomers at cost-effective allura red polymeric film modified glassy carbon electrode. Journal of Analytical Science and Technology, 2021, 12, .	2.1	11
36	Electrochemical Sensors and Techniques for Detection of Heavy Metals in Water: African Research Group Contribution. ECS Meeting Abstracts, 2021, MA2021-01, 1877-1877.	0.0	0

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37	Recent advancements in corrosion inhibitor systems through carbon allotropes: Past, present, and future. <i>Nano Select</i> , 2021, 2, 2237-2255.	3.7	24
38	Investigation of phenol-formaldehyde resins as corrosion impeding agent in acid solution. <i>Journal of Molecular Liquids</i> , 2021, 330, 115649.	4.9	25
39	Electrochemical Characterization and Detection of Lead in Water Using SPCE Modified with BiONPs/PANI. <i>Nanomaterials</i> , 2021, 11, 1294.	4.1	14
40	Conductive Nanodiamond-Based Detection of Neurotransmitters: One Decade, Few Sensors. <i>ACS Omega</i> , 2021, 6, 18548-18558.	3.5	6
41	Phthalocyanine, naphthalocyanine and their derivatives as corrosion inhibitors: A review. <i>Journal of Molecular Liquids</i> , 2021, 334, 116441.	4.9	33
42	Computational Modeling: Theoretical Predictive Tools for Designing of Potential Organic Corrosion Inhibitors. <i>Journal of Molecular Structure</i> , 2021, 1236, 130294.	3.6	54
43	Synthesis and characterization of walnut husk extract-silver nanocomposites for removal of heavy metals from petroleum wastewater and its consequences on pipework steel corrosion. <i>Journal of Molecular Liquids</i> , 2021, 335, 116132.	4.9	23
44	Flame retardancy of an intumescent epoxy resin containing cyclotriphosphazene: experimental, computational and statistical studies. <i>Iranian Polymer Journal (English Edition)</i> , 2021, 30, 1169-1179.	2.4	8
45	Multifunctional silver nanocomposite: A potential material for antiscaling, antimicrobial and anticorrosive applications. <i>Jcis Open</i> , 2021, 3, 100012.	3.2	6
46	Quantitative structure activity relationship and artificial neural network as vital tools in predicting coordination capabilities of organic compounds with metal surface: A review. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214101.	18.8	40
47	Investigating the synergism of some hydrazinecarboxamides and iodide ions as corrosion inhibitor formulations for mild steel in hydrochloric Acid: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2021, 343, 117600.	4.9	17
48	Polymer nanocomposites as industrially useful corrosion inhibitors: recent developments. , 2021, , 419-435.		3
49	Chromeno-carbonitriles as corrosion inhibitors for mild steel in acidic solution: electrochemical, surface and computational studies. <i>RSC Advances</i> , 2021, 11, 2462-2475.	3.6	26
50	Aminomethylpyridazine isomers as corrosion inhibitors for mild steel in 1M HCl: Electrochemical, DFT and Monte Carlo simulation studies. <i>Journal of Molecular Liquids</i> , 2021, 344, 117882.	4.9	18
51	Experimental and molecular docking studies in understanding the biomolecular interactions between stem bromelain and imidazolium-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 297, 111785.	4.9	13
52	DGEBA-polyaminoamide as effective anti-corrosive material for 15CDV6 steel in NaCl medium: Computational and experimental studies. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48402.	2.6	94
53	Pyrazole derivatives as environmental benign acid corrosion inhibitors for mild steel: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 298, 111943.	4.9	54
54	Anti-corrosive property of bioinspired environmental benign imidazole and isoxazoline heterocyclics: A cumulative studies of experimental and DFT methods. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 103-119.	2.6	21

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55	Experimental and computational studies on propanone derivatives of quinoxalin-6-yl-4,5-dihydropyrazole as inhibitors of mild steel corrosion in hydrochloric acid. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 104-116.	9.4	123
56	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.	5.8	80
57	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.	4.9	26
58	Epoxy prepolymer as a novel anti-corrosive material for carbon steel in acidic solution: Electrochemical, surface and computational studies. <i>Materials Today Communications</i> , 2020, 22, 100800.	1.9	28
59	Imidazoles as highly effective heterocyclic corrosion inhibitors for metals and alloys in aqueous electrolytes: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 341-358.	5.3	68
60	Epoxy resin and TiO <sub>2</sub> composite as anticorrosive material for carbon steel in 3% NaCl medium: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 317, 114249.	4.9	22
61	Quinoline and its derivatives as corrosion inhibitors: A review. <i>Surfaces and Interfaces</i> , 2020, 21, 100634.	3.0	63
62	Trifunctional epoxy resin as anticorrosive material for carbon steel in 1 M HCl: Experimental and computational studies. <i>Surfaces and Interfaces</i> , 2020, 21, 100707.	3.0	13
63	Epoxy resins as anticorrosive polymeric materials: A review. <i>Reactive and Functional Polymers</i> , 2020, 156, 104741.	4.1	144
64	Molecular structural aspects of organic corrosion inhibitors: Influence of “CN and “NO <sub>2</sub> substituents on designing of potential corrosion inhibitors for aqueous media. <i>Journal of Molecular Liquids</i> , 2020, 316, 113874.	4.9	67
65	Synthesis and structures of divalent Co, Ni, Zn and Cd complexes of mixed dichalcogen and dipnictogen ligands with corrosion inhibition properties: experimental and computational studies. <i>RSC Advances</i> , 2020, 10, 41967-41982.	3.6	25
66	Carbon-Based Quantum Dots for Electrochemical Detection of Monoamine Neurotransmitters”Review. <i>Biosensors</i> , 2020, 10, 162.	4.7	22
67	Synthesis, Electrochemical Studies, and Antimicrobial Properties of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles from <i>Callistemon viminalis</i> Plant Extracts. <i>Materials</i> , 2020, 13, 4894.	2.9	14
68	Electrochemical Determination of Caffeine Using Bimetallic Au~Ag Nanoparticles Obtained from Low-cost Green Synthesis. <i>Electroanalysis</i> , 2020, 32, 2745-2755.	2.9	14
69	Development and Anti-corrosion Performance of Polymeric Epoxy Resin and their Zinc Phosphate Composite on 15CDV6 Steel in 3wt% NaCl: Experimental and Computational Studies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	24
70	Adsorption and Corrosion Inhibition Potentials of Salicylaldehyde-based Schiff Bases of Semicarbazide and p-Toluidine on Mild Steel in Acidic Medium: Experimental and Computational Studies. <i>Surfaces and Interfaces</i> , 2020, 21, 100782.	3.0	28
71	Green Wastes Mediated Zinc Oxide Nanoparticles: Synthesis, Characterization and Electrochemical Studies. <i>Materials</i> , 2020, 13, 4241.	2.9	21
72	Progress in electrochemical detection of neurotransmitters using carbon nanotubes/nanocomposite based materials: A chronological review. <i>Nano Select</i> , 2020, 1, 561-611.	3.7	9

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73	SPEEK/ZnO Nanocomposite Modified Gold Electrode for Electrochemical Detection of Dopamine. <i>Electroanalysis</i> , 2020, 32, 2713-2722.	2.9	4
74	Fabrication on designing of a macromolecular epoxy resin as anti-corrosive coating material for electrocatalytically deposited cadmium on 15CDV6 steel in 3% NaCl solution. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5549-5563.	5.8	11
75	Impact of selected ionic liquids on corrosion protection of mild steel in acidic medium: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 314, 113609.	4.9	42
76	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.	3.0	10
77	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.	3.5	63
78	Experimental and computational studies on hydroxamic acids as environmental friendly chelating corrosion inhibitors for mild steel in aqueous acidic medium. <i>Journal of Molecular Liquids</i> , 2020, 314, 113651.	4.9	42
79	Experimental and computational mediated illustration of effect of different substituents on adsorption tendency of phthalazinone derivatives on mild steel surface in acidic medium. <i>Journal of Molecular Liquids</i> , 2020, 305, 112844.	4.9	33
80	8-Hydroxyquinoline based chitosan derived carbohydrate polymer as biodegradable and sustainable acid corrosion inhibitor for mild steel: Experimental and computational analyses. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 645-655.	7.5	120
81	Epoxy resins and their zinc composites as novel anti-corrosive materials for copper in 3% sodium chloride solution: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 315, 113757.	4.9	69
82	Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 315, 113773.	4.9	33
83	Synthesis of Macromolecular Aromatic Epoxy Resins as Anticorrosive Materials: Computational Modeling Reinforced Experimental Studies. <i>ACS Omega</i> , 2020, 5, 3151-3164.	3.5	23
84	Fabrication of polymer based epoxy resin as effective anti-corrosive coating for steel: Computational modeling reinforced experimental studies. <i>Surfaces and Interfaces</i> , 2020, 18, 100454.	3.0	77
85	Highly durable macromolecular epoxy resin as anticorrosive coating material for carbon steel in 3% NaCl: Computational supported experimental studies. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49003.	2.6	66
86	Highly functionalized epoxy macromolecule as an anti-corrosive material for carbon steel: Computational (DFT, MDS), surface (SEM-EDS) and electrochemical (OCP, PDP, EIS) studies. <i>Journal of Molecular Liquids</i> , 2020, 302, 112535.	4.9	69
87	Cyclotriphosphazene based dendrimeric epoxy resin as an anti-corrosive material for copper in 3% NaCl: Experimental and computational demonstrations. <i>Journal of Molecular Liquids</i> , 2020, 308, 113020.	4.9	31
88	A Review on Ammonia Derivatives as Corrosion Inhibitors for Metals and Alloys. <i>Green Energy and Technology</i> , 2020, , 49-67.	0.6	8
89	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.	9.4	57
90	Pyridine based N-heterocyclic compounds as aqueous phase corrosion inhibitors: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 265-277.	5.3	65

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91	Inhibition of Acid Corrosion of Mild Steel By Selected Quinoxaliny-Pyrazolyl-Propanones: Electrochemical and Computational Studies. ECS Meeting Abstracts, 2020, MA2020-01, 1003-1003.	0.0	0
92	An Exploration about the Interaction of Mild Steel with Hydrochloric Acid in the Presence of N-(Benzo[thiazole-2-yl)-1-phenylethan-1-imines. Journal of Physical Chemistry C, 2019, 123, 22897-22917.	3.1	73
93	Epoxy pre-polymers as new and effective materials for corrosion inhibition of carbon steel in acidic medium: Computational and experimental studies. Scientific Reports, 2019, 9, 11715.	3.3	90
94	Thermodynamic properties of ternary mixture {[C4mim][SCN] + acetic or propionic acid + acetonitrile} over the temperature range of (293.15–313.15) K. Journal of Chemical Thermodynamics, 2019, 138, 321-331.	2.0	0
95	Dissolution of cellulose in ionic liquids and their mixed cosolvents: A review. Sustainable Chemistry and Pharmacy, 2019, 13, 100162.	3.3	76
96	Superhydrophobic antibacterial polymer coatings. , 2019, , 245-279.		8
97	Synthesis and characterization of anticorrosion zirconia/acrylic nanocomposite resin coatings for steel. Progress in Organic Coatings, 2019, 137, 105337.	3.9	8
98	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.	4.1	28
99	Evaluation of anti-corrosion performance of an expired semi synthetic antibiotic cefdinir for mild steel in 1 M HCl medium: An experimental and theoretical study. Results in Physics, 2019, 14, 102383.	4.1	51
100	Adsorption and anticorrosive behavior of aromatic epoxy monomers on carbon steel corrosion in acidic solution: computational studies and sustained experimental studies. RSC Advances, 2019, 9, 14782-14796.	3.6	46
101	Anticorrosive property of heterocyclic based epoxy resins on carbon steel corrosion in acidic medium: Electrochemical, surface morphology, DFT and Monte Carlo simulation studies. Journal of Molecular Liquids, 2019, 287, 110977.	4.9	44
102	Effect of substituent dependent molecular structure on anti-corrosive behavior of one-pot multicomponent synthesized pyrimido [2,1-B] benzothiazoles: Computer modelling supported experimental studies. Journal of Molecular Liquids, 2019, 287, 110972.	4.9	42
103	Computational simulation and statistical analysis on the relationship between corrosion inhibition efficiency and molecular structure of some hydrazine derivatives in phosphoric acid on mild steel surface. Applied Surface Science, 2019, 491, 707-722.	6.1	106
104	Anticorrosive properties of Hexa (3-methoxy propan-1,2-diol) cyclotri-phosphazene compound for carbon steel in 3% NaCl medium: gravimetric, electrochemical, DFT and Monte Carlo simulation studies. Heliyon, 2019, 5, e01340.	3.2	56
105	Gravimetric, electrochemical surface and density functional theory study of acetohydroxamic and benzohydroxamic acids as corrosion inhibitors for copper in 1 M HCl. Results in Physics, 2019, 13, 102194.	4.1	42
106	Intermolecular interactions between methanol and some sulphonamide drugs in aqueous medium using thermodynamics approach. Journal of Molecular Liquids, 2019, 283, 451-461.	4.9	13
107	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.	4.9	26
108	Rheological, electrochemical, surface, DFT and molecular dynamics simulation studies on the anticorrosive properties of new epoxy monomer compound for steel in 1 M HCl solution. RSC Advances, 2019, 9, 4454-4462.	3.6	62



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109	Green synthesis of ZnO nanoparticles using aqueous <i>Brassica oleracea</i> L. var. <i>italica</i> and the photocatalytic activity. <i>Green Chemistry Letters and Reviews</i> , 2019, 12, 444-457.	4.7	125
110	Acridine-based thiosemicarbazones as novel inhibitors of mild steel corrosion in 1 M HCl: synthesis, electrochemical, DFT and Monte Carlo simulation studies. <i>RSC Advances</i> , 2019, 9, 29590-29599.	3.6	20
111	Transition metal nanoparticles in ionic liquids: Synthesis and stabilization. <i>Journal of Molecular Liquids</i> , 2019, 276, 826-849.	4.9	83
112	Aqueous phase environmental friendly organic corrosion inhibitors derived from one step multicomponent reactions: A review. <i>Journal of Molecular Liquids</i> , 2019, 275, 18-40.	4.9	145
113	Ionic liquid-mediated functionalization of graphene-based materials for versatile applications: a review. <i>Graphene Technology</i> , 2019, 4, 1-15.	1.9	20
114	Experimental, density functional theory and molecular dynamics supported adsorption behavior of environmental benign imidazolium based ionic liquids on mild steel surface in acidic medium. <i>Journal of Molecular Liquids</i> , 2019, 273, 1-15.	4.9	92
115	Effect of temperature on intermolecular interactions between the organic solvents: Insights from density and excess volume. <i>Journal of Chemical Thermodynamics</i> , 2019, 132, 461-469.	2.0	9
116	Electrochemical Properties of Nanoporous Based Materials. , 2019, , 3-24.		0
117	Alkaloids as green and environmental benign corrosion inhibitors: An overview. <i>International Journal of Corrosion and Scale Inhibition</i> , 2019, 8, .	0.6	2
118	Electrochemical and Computational Studies of Some Carbazole Derivatives as Inhibitors of Mild Steel Corrosion in Abiotic and Biotic Environments. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	2.6	7
119	Melamine derivatives as effective corrosion inhibitors for mild steel in acidic solution: Chemical, electrochemical, surface and DFT studies. <i>Results in Physics</i> , 2018, 9, 100-112.	4.1	41
120	Surface protection activities of some 6-substituted 3-chloropyridazine derivatives for mild steel in 1M hydrochloric acid: Experimental and theoretical studies. <i>Surfaces and Interfaces</i> , 2018, 12, 8-19.	3.0	22
121	Interference free detection of dihydroxybenzene isomers at pyrogallol film coated electrode: A voltammetric method. <i>Journal of Electroanalytical Chemistry</i> , 2018, 813, 193-199.	3.8	20
122	Electrochemical sensor for the detection of dopamine in real samples using polyaniline/NiO, ZnO, and Fe <sub>3</sub> O <sub>4</sub> nanocomposites on glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2018, 818, 236-249.	3.8	119
123	Organic corrosion inhibitors for industrial cleaning of ferrous and non-ferrous metals in acidic solutions: A review. <i>Journal of Molecular Liquids</i> , 2018, 256, 565-573.	4.9	379
124	Adsorption characteristics of green 5-arylaminomethylene pyrimidine-2,4,6-triones on mild steel surface in acidic medium: Experimental and computational approach. <i>Results in Physics</i> , 2018, 8, 657-670.	4.1	38
125	Non-toxic Schiff bases as efficient corrosion inhibitors for mild steel in 1 M HCl: Electrochemical, AFM, FE-SEM and theoretical studies. <i>Journal of Molecular Liquids</i> , 2018, 250, 88-99.	4.9	71
126	Gravimetric, Electrochemical, Surface Morphology, DFT, and Monte Carlo Simulation Studies on Three N-Substituted 2-Aminopyridine Derivatives as Corrosion Inhibitors of Mild Steel in Acidic Medium. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11870-11882.	3.1	85



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127	Antimicrobial and Wound Healing Properties of Polyacrylonitrile-Moringa Extract Nanofibers. ACS Omega, 2018, 3, 4791-4797.	3.5	79
128	2-Hydroxy-N-((Thiophene-2-yl)methylene)benzohydrazide: Ultrasound-Assisted Synthesis and Corrosion Inhibition Study. ACS Omega, 2018, 3, 4695-4705.	3.5	50
129	Molecular dynamics and Monte Carlo simulations as powerful tools for study of interfacial adsorption behavior of corrosion inhibitors in aqueous phase: A review. Journal of Molecular Liquids, 2018, 260, 99-120.	4.9	240
130	Synthesis, characterization and corrosion inhibition properties of benzamide-2-chloro-4-nitrobenzoic acid and anthranilic acid-2-chloro-4-nitrobenzoic acid for mild steel corrosion in acidic medium. Journal of Molecular Structure, 2018, 1155, 110-122.	3.6	18
131	Synthesis, characterization and corrosion inhibition studies of N-phenyl-benzamides on the acidic corrosion of mild steel: Experimental and computational studies. Journal of Molecular Liquids, 2018, 251, 317-332.	4.9	111
132	Substituents effect on corrosion inhibition performance of organic compounds in aggressive ionic solutions: A review. Journal of Molecular Liquids, 2018, 251, 100-118.	4.9	276
133	Anticorrosion studies of some hydantoin derivatives for mild steel in 0.5 M HCl solution: Experimental, quantum chemical, Monte Carlo simulations and QSAR studies. Journal of Molecular Liquids, 2018, 252, 62-74.	4.9	40
134	Influence of chlorine atom on interactions between halo-hydrocarbons and 1-nonanol: Density and speed of sound measurements. Journal of Chemical Thermodynamics, 2018, 118, 82-91.	2.0	2
135	Microwave and ultrasound irradiations for the synthesis of environmentally sustainable corrosion inhibitors: An overview. Sustainable Chemistry and Pharmacy, 2018, 10, 134-147.	3.3	69
136	Electrocatalysis of Lindane Using Antimony Oxide Nanoparticles Based-SWCNT/PANI Nanocomposites. Frontiers in Chemistry, 2018, 6, 423.	3.6	14
137	Sulfur and phosphorus heteroatom-containing compounds as corrosion inhibitors: An overview. Heteroatom Chemistry, 2018, 29, .	0.7	116
138	Exploring the Effect of Choline-Based Ionic Liquids on the Stability and Activity of Stem Bromelain. Journal of Physical Chemistry B, 2018, 122, 10435-10444.	2.6	28
139	Molecular interactions of p-chlorotoluene and 1-alkanols at different temperatures: Volumetric, ultrasonic and FT-IR spectroscopic studies. Journal of Molecular Liquids, 2018, 262, 302-309.	4.9	8
140	Hydrogen Bonding Interactions of m-Chlorotoluene with 1-Alkanol Analyzed by Thermodynamic, Fourier Transform Infrared Spectroscopy, Density Functional Theory, and Natural Bond Orbital. ACS Omega, 2018, 3, 4679-4687.	3.5	13
141	An overview on plant extracts as environmental sustainable and green corrosion inhibitors for metals and alloys in aggressive corrosive media. Journal of Molecular Liquids, 2018, 266, 577-590.	4.9	363
142	Inhibition performance of three naphthyridine derivatives for mild steel corrosion in 1M HCl: Computation and experimental analyses. Results in Physics, 2018, 10, 504-511.	4.1	25
143	Aqueous extract of broccoli mediated synthesis of CaO nanoparticles and its application in the photocatalytic degradation of bromocresol green. IET Nanobiotechnology, 2018, 12, 888-894.	3.8	38
144	Poly (glycine) modified carbon paste electrode for simultaneous determination of catechol and hydroquinone: A voltammetric study. Journal of Electroanalytical Chemistry, 2018, 823, 730-736.	3.8	57

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145	Editorial: Discovery of Novel Molecules for Corrosion Protection Using Computational Chemistry. <i>Frontiers in Chemistry</i> , 2018, 6, 277.	3.6	4
146	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.	2.8	150
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