

Omar Dagdag

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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.

75
papers

1,501
citations

23
h-index

36
g-index

89
ext. papers

2,280
ext. citations

3.8
avg, IF

5.42
L-index

#	Paper	IF	Citations
75	Novel derivative epoxy resin TGETET as a corrosion inhibition of E24 carbon steel in 1.0 M HCl solution. Experimental and computational (DFT and MD simulations) methods. <i>Journal of Molecular Liquids</i> , 2019 , 284, 182-192	6	106
74	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
73	Trifunctional epoxy polymer as corrosion inhibition material for carbon steel in 1.0M HCl: MD simulations, DFT and complexation computations. <i>Inorganic Chemistry Communication</i> , 2020 , 115, 107858 ^{3.1}	3.1	91
72	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
71	Epoxy resins as anticorrosive polymeric materials: A review. <i>Reactive and Functional Polymers</i> , 2020 , 156, 104741	4.6	58
70	Epoxy pre-polymers as new and effective materials for corrosion inhibition of carbon steel in acidic medium: Computational and experimental studies. <i>Scientific Reports</i> , 2019 , 9, 11715	4.9	55
69	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	2.9	51
68	Polymeric-Based Epoxy Cured with a Polyaminoamide as an Anticorrosive Coating for Aluminum 2024-T3 Surface: Experimental Studies Supported by Computational Modeling. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	48
67	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. <i>Heliyon</i> , 2019 , 5, e01340	3.6	47
66	Rheological, electrochemical, surface, DFT and molecular dynamics simulation studies on the anticorrosive properties of new epoxy monomer compound for steel in 1M HCl solution.. <i>RSC Advances</i> , 2019 , 9, 4454-4462	3.7	47
65	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	4.1	47
64	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	2.9	44
63	Development rheological and anti-corrosion property of epoxy polymer and its composite. <i>Heliyon</i> , 2019 , 5, e02789	3.6	44
62	Rheological properties of composite polymers and hybrid nanocomposites. <i>Heliyon</i> , 2020 , 6, e04187	3.6	43
61	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	6	39
60	Adsorption and anticorrosive behavior of aromatic epoxy monomers on carbon steel corrosion in acidic solution: computational studies and sustained experimental studies.. <i>RSC Advances</i> , 2019 , 9, 14782-14796 ^{3.7}	3.7	35
59	Anticorrosive property of heterocyclic based epoxy resins on carbon steel corrosion in acidic medium: Electrochemical, surface morphology, DFT and Monte Carlo simulation studies. <i>Journal of Molecular Liquids</i> , 2019 , 287, 110977	6	31

58	Phosphorous-based epoxy resin composition as an effective anticorrosive coating for steel. <i>International Journal of Industrial Chemistry</i> , 2018 , 9, 231-240	3.1	31
57	Evaluation of Gloriosa superba seeds extract as corrosion inhibition for low carbon steel in sulfuric acidic medium: A combined experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114958	6	29
56	Anticorrosive properties of a green and sustainable inhibitor from leaves extract of Cannabis sativa plant: Experimental and theoretical approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 614, 126211	5.1	27
55	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	6	26
54	Anticorrosive Performance of New Epoxy-Amine Coatings Based on Zinc Phosphate Tetrahydrate as a Nontoxic Pigment for Carbon Steel in NaCl Medium. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 5977-5987	2.5	25
53	Anticorrosive Performance Approach Combining an Epoxy Polyaminoamide Zinc Phosphate Coatings Applied on Sulfo-tartaric Anodized Aluminum Alloy 5086. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018 , 4, 1	2.9	23
52	The Role of Zinc Phosphate Pigment in the Anticorrosion Properties of Bisphenol A Diglycidyl Ether-Polyaminoamide Coating for Aluminum Alloy AA2024-T3. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	23
51	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	2.5	20
50	Anticorrosive Formulation Based of the Epoxy Resin Polyaminoamide Containing Zinc Phosphate Inhibitive Pigment Applied on Sulfo-Tartaric Anodized AA 7075-T6 in NaCl Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	16
49	Dual Component Polymeric Epoxy-Polyaminoamide Based Zinc Phosphate Anticorrosive Formulation for 15CDV6 Steel. <i>Coatings</i> , 2019 , 9, 463	2.9	15
48	Corrosion inhibition, surface adsorption and computational studies of Swertia chirata extract: A sustainable and green approach. <i>Materials Chemistry and Physics</i> , 2021 , 267, 124613	4.4	15
47	Synthesis, characterization and rheological properties of epoxy monomers derived from bifunctional aromatic amines. <i>Polymer Bulletin</i> , 2019 , 76, 4399-4413	2.4	15
46	Investigation of structure and rheological behavior of a new epoxy polymer pentaglycidyl ether pentabishphenol A of phosphorus and of its composite with natural phosphate. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	14
45	Investigation of plant waste as a renewable biomass source to develop efficient, economical and eco-friendly corrosion inhibitor. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116184	6	14
44	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	6	13
43	Papaver somniferum as an efficient corrosion inhibitor for iron alloy in acidic condition: DFT, MC simulation, LCMS and electrochemical studies. <i>Journal of Molecular Structure</i> , 2021 , 1242, 130822	3.4	13
42	Designing of phosphorous based highly functional dendrimeric macromolecular resin as an effective coating material for carbon steel in NaCl: Computational and experimental studies. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49673	2.9	12
41	Rheological and Electrical Study of a Composite Material Based on an Epoxy Polymer Containing Cyclotriphosphazene. <i>Polymers</i> , 2020 , 12,	4.5	11

40	Novel bromide cucurbit[7]uril supramolecular ionic liquid as a green corrosion inhibitor for the oil and gas industry. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 901, 115794	4.1	11
39	Epoxy coating as effective anti-corrosive polymeric material for aluminum alloys: Formulation, electrochemical and computational approaches. <i>Journal of Molecular Liquids</i> , 2021 , 346, 117886	6	11
38	Corrosion inhibition, surface adsorption and computational studies of Momordica charantia extract: a sustainable and green approach. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	11
37	Calotropis procera extract as an environmental friendly corrosion inhibitor: Computational demonstrations. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116954	6	10
36	New and Green Corrosion Inhibitor Based on New Imidazole Derivate for Carbon Steel in 1 M Hcl Medium: Experimental and Theoretical Analyses. <i>International Journal of Engineering Research in Africa</i> , 2021 , 58, 11-44	0.7	9
35	Novel cucurbit[6]uril-based [3]rotaxane supramolecular ionic liquid as a green and excellent corrosion inhibitor for the chemical industry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 633, 127837	5.1	9
34	Molecular dynamic simulation and Quantum chemical calculation of phytochemicals present in Beta vulgaris and electrochemical behaviour of Beta vulgaris peel extract as green corrosion inhibitor for stainless steel (SS-410) in acidic medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 637, 127707	5.1	9
33	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	2.9	9
32	Dendrimeric Epoxy Resins Based on Hexachlorocyclotriphosphazene as a Reactive Flame Retardant Polymeric Materials: A Review. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 3240-3261	3.2	9
31	Synthesis of Macromolecular Aromatic Epoxy Resins as Anticorrosive Materials: Computational Modeling Reinforced Experimental Studies. <i>ACS Omega</i> , 2020 , 5, 3151-3164	3.9	8
30	Novel gossypol chitosan modification as a green corrosion inhibitor for low carbon steel in aggressive alkaline solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 637, 128207	5.1	8
29	Epoxy resin and TiO2 composite as anticorrosive material for carbon steel in 3% NaCl medium: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020 , 317, 114249	6	7
28	Magnetic Multiwall Carbon Nanotube Decorated with Novel Functionalities: Synthesis and Application as Adsorbents for Lead Removal from Aqueous Medium. <i>Processes</i> , 2020 , 8, 986	2.9	7
27	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	5.5	6
26	Cinnamomum tamala leaves extract highly efficient corrosion bio-inhibitor for low carbon steel: Applying computational and experimental studies. <i>Journal of Molecular Liquids</i> , 2022 , 347, 118218	6	6
25	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	4.1	6
24	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
23	Study of the adsorption of nickel ions on the sea shells of Mehdia: Kinetic and thermodynamic study and mathematical modelling of experimental data. <i>Materials Today: Proceedings</i> , 2021 , 45, 7494-7500	1.4	5

22	Novel glycoluril pharmaceutically active compound as a green corrosion inhibitor for the oil and gas industry. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 907, 116055	4.1	4
21	Molecular dynamic simulation, Quantum chemical calculation and electrochemical behaviour of Punica granatum peel extract as eco-friendly corrosion inhibitor for stainless steel (SS-410) in acidic medium. <i>Journal of Molecular Liquids</i> , 2021 , 118237	6	4
20	Cellulose-Based Hectocycle Nanopolymers: Synthesis, Molecular Docking and Adsorption of Difeniconazole from Aqueous Medium. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
19	Efficiency of magnetic chitosan supported on graphene for removal of perchlorate ions from wastewater. <i>Environmental Technology (United Kingdom)</i> , 2021 , 42, 1119-1131	2.6	4
18	Cellulose powder functionalized with phenyl biguanide: Synthesis, cross-linking, metal adsorption, and molecular docking. <i>BioResources</i> , 2021 , 16, 7263-7282	1.3	3
17	Comparative study of some epoxy polymers based on bisphenolic and aromatic diamines: synthesis, viscosity, thermal properties computational and statistical approaches. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	3
16	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
15	Novel, Environment-Friendly Cellulose-Based Derivatives for Tetraconazole Removal from Aqueous Solution. <i>Polymers</i> , 2021 , 13,	4.5	3
14	Recent progress in epoxy resins as corrosion inhibitors: design and performance. <i>Journal of Adhesion Science and Technology</i> , 1-22	2	3
13	The efficiency of removal of organophosphorus malathion pesticide using functionalized multi-walled carbon nanotube: Impact of Dissolved Organic Matter (DOM). <i>Separation Science and Technology</i> , 1-12	2.5	2
12	Rheological and simulation for macromolecular matrix epoxy bi-functional aromatic amines. <i>Polymer Bulletin</i> , 1	2.4	2
11	Flame retardancy of an intumescent epoxy resin containing cyclotriphosphazene: experimental, computational and statistical studies. <i>Iranian Polymer Journal (English Edition)</i> , 2021 , 30, 1169	2.3	2
10	Monte Carlo simulation, molecular dynamic simulation, quantum chemical calculation and anti-corrosive behaviour of Citrus limetta pulp waste extract for stainless steel (SS-410) in acidic medium. <i>Materials Chemistry and Physics</i> , 2022 , 284, 126052	4.4	2
9	Epoxy Resins and Their Nanocomposites as Anticorrosive Materials 2021 , 451-482		1
8	Design, synthesis and antimicrobial properties of cellulose-based amine film. <i>Polymer Bulletin</i> , 1	2.4	1
7	Zeolite/Cellulose Acetate (ZCA) in Blend Fiber for Adsorption of Erythromycin Residue From Pharmaceutical Wastewater: Experimental and Theoretical Study. <i>Frontiers in Chemistry</i> , 2021 , 9, 709600 ⁵		0
6	Computational insights into quinoxaline-based corrosion inhibitors of steel in HCl: Quantum chemical analysis and QSPR-ANN studies. <i>Arabian Journal of Chemistry</i> , 2022 , 103870	5.9	0
5	Experimental and theoretical study for removal of trimethoprim from wastewater using organically modified silica with pyrazole-3-carbaldehyde bridged to copper ions.. <i>BMC Chemistry</i> , 2022 , 16, 17	3.7	0

- 4 N-hydroxypyrazine-2-carboxamide as a new and green corrosion inhibitor for mild steel in acidic medium: experimental, surface morphological and theoretical approach. *Journal of Adhesion Science and Technology*,1-21 2 0
- 3 Carboxymethylated pulp as starting point to prepare hydroxypropylmethyl cellulose with enhanced gel rheological properties in an aqueous medium. *BioResources*, **2020**, 16, 1453-1468 1,3
- 2 Chemical modification of epoxy prepolymers as anticorrosive materials: a review **2022**, 273-288
- 1 Functionalized Nanomaterials for Corrosion Mitigation: Synthesis, Characterization & Applications. *ACS Symposium Series*,67-85 0,4