

Mahmoud A Bedair

List of Publications by Year in descending order

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papers

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citations

304701

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#	ARTICLE	IF	CITATIONS
1	A study of the inhibitive effect for corrosion of steel in 1.0 M HCl using a new nonionic surfactant based on coumarin moiety: chemical, electrochemical and quantum mechanics calculations. Journal of Adhesion Science and Technology, 2023, 37, 105-135.	2.6	19
2	Green synthesis, electrochemical, and DFT studies on the corrosion inhibition of steel by some novel triazole Schiff base derivatives in hydrochloric acid solution. Arabian Journal of Chemistry, 2022, 15, 103491.	4.9	44
3	Experimental and computational studies of the influence of non-ionic surfactants with coumarin moiety as corrosion inhibitors for carbon steel in 1.0 M HCl. Journal of Molecular Liquids, 2022, 349, 118445.	4.9	38
4	Synthesis, characterization of novel coumarin dyes as corrosion inhibitors for mild steel in acidic environment: Experimental, theoretical, and biological studies. Journal of Molecular Liquids, 2022, 346, 118310.	4.9	35
5	Herbal expired drug bearing glycosides and polysaccharides moieties as green and cost-effective oilfield corrosion inhibitor: Electrochemical and computational studies. Journal of Molecular Liquids, 2022, 352, 118689.	4.9	44
6	Anticorrosion Study for Brass Alloys in Heat Exchangers during Acid Cleaning Using Novel Gemini Surfactants Based on Benzalkonium Tetrafluoroborate. ACS Omega, 2022, 7, 17849-17860.	3.5	19
7	Performance assessment by experimental and Theoretical approaches of newly synthesized benzyl amide derivatives as corrosion inhibitors for carbon steel in 1.0 M hydrochloric acid environment. Inorganic Chemistry Communication, 2022, 143, 109758.	3.9	29
8	Molecular structure and mild steel/HCl corrosion inhibition of 4,5-Dicyanoimidazole: Vibrational, electrochemical and quantum mechanical calculations. Journal of Molecular Structure, 2021, 1230, 129647.	3.6	43
9	One-step plasma deposited thin SiO ₂ /C _y films for corrosion resistance of low carbon steel. Journal of Adhesion Science and Technology, 2021, 35, 1734-1751.	2.6	11
10	Synthesis and Assessment of Two Malonyl Dihydrazone Derivatives as Corrosion Inhibitors for Carbon Steel in Acidic Media: Experimental and Theoretical Studies. Molecules, 2021, 26, 3183.	3.8	23
11	Anticorrosion Effect of Ethoxylate Sulfanilamide Compounds on Carbon Steel in 1 M Hydrochloric Acid: Electrochemical and Theoretical Studies. ACS Omega, 2021, 6, 15089-15102.	3.5	32
12	Molecular structure aspects and molecular reactivity of some triazole derivatives for corrosion inhibition of aluminum in 1 M HCl solution. Journal of Molecular Structure, 2021, 1236, 130292.	3.6	45
13	Influence of pH values on the electrochemical performance of low carbon steel coated by plasma thin SiO ₂ /C films. Arabian Journal of Chemistry, 2021, 14, 103391.	4.9	18
14	Papaver somniferum as an efficient corrosion inhibitor for iron alloy in acidic condition: DFT, MC simulation, LCMS and electrochemical studies. Journal of Molecular Structure, 2021, 1242, 130822.	3.6	54
15	Molecular structure, tautomer's, reactivity and inhibition studies on 6-Methyl-2-thiouracil for mild steel corrosion in aqueous HCl (1.00 M): Experimental and Theoretical Studies. Journal of Molecular Structure, 2021, 1244, 130927.	3.6	31
16	Photophysical, DFT and molecular docking studies of Sm(III) and Eu(III) complexes of newly synthesized coumarin ligand. Inorganic Chemistry Communication, 2020, 121, 108213.	3.9	25
17	Benzidine-based Schiff base compounds for employing as corrosion inhibitors for carbon steel in 1.0 M HCl aqueous media by chemical, electrochemical and computational methods. Journal of Molecular Liquids, 2020, 317, 114015.	4.9	78
18	Adsorption and Computational Studies for Evaluating the Behavior of Silicon Based Compounds as Novel Corrosion Inhibitors of Carbon Steel Surfaces in Acidic Media. Zeitschrift Fur Physikalische Chemie, 2019, 233, 225-254.	2.8	31

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19	Empirical and theoretical investigations on the corrosion inhibition characteristics of mild steel by three new Schiff base derivatives. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 1139-1168.	2.6	48
20	Synergistic Effect between Natural Honey and 0.1 M KI as Green Corrosion Inhibitor for Steel in Acid Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 627-649.	2.8	32
21	Synthesis of some triazole Schiff base derivatives and their metal complexes under Microwave irradiation and evaluation of their corrosion inhibition and biological activity. <i>Egyptian Journal of Chemistry</i> , 2019, .	0.2	14
22	Adsorption and performance assessment of some imine derivatives as mild steel corrosion inhibitors in 1.0 M HCl solution by chemical, electrochemical and computational methods. <i>Materials Chemistry and Physics</i> , 2018, 219, 444-460.	4.0	75
23	Synthesis, electrochemical and quantum chemical studies of some prepared surfactants based on azodye and Schiff base as corrosion inhibitors for steel in acid medium. <i>Corrosion Science</i> , 2017, 128, 54-72.	6.6	167
24	Synthesis and characterization of some nonionic surfactants as corrosion inhibitors for steel in 1.0 M HCl (Experimental and computational study). <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 41, 10-22.	5.8	58
25	The effect of structure parameters on the corrosion inhibition effect of some heterocyclic nitrogen organic compounds. <i>Journal of Molecular Liquids</i> , 2016, 219, 128-141.	4.9	79
26	Experimental and quantum chemical studies of the effect of poly ethylene glycol as corrosion inhibitors of aluminum surface. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 796-808.	5.8	93
27	Corrosion inhibition and adsorption behavior of new Schiff base surfactant on steel in acidic environment: Experimental and theoretical studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4311-4320.	5.8	66