

Brahim El Ibrahimi

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,697
citations

304743

22
h-index

289244

40
g-index

51
all docs

51
docs citations

51
times ranked

987
citing authors

#	ARTICLE	IF	CITATIONS
1	Sour corrosion of C1018 carbon steel and its inhibition by benzylimidazole: electrochemical, SEM, FTIR and computational assessment. Journal of Adhesion Science and Technology, 2022, 36, 774-794.	2.6	6
2	New tetrazoles compounds incorporating galactose moiety: Synthesis, crystal structure, spectroscopic characterization, Hirshfeld surface analysis, molecular docking studies, DFT calculations and anti-corrosion property anticipation. Journal of Molecular Structure, 2022, 1247, 131300.	3.6	12
3	Molybdates as corrosion inhibitors. , 2022, , 297-321.		0
4	Experimental and Theoretical Study to Understand the Adsorption Process of Anisidine and Nitroaniline for the Dissolution of C38 Carbon Steel in 1M HCl. ChemistrySelect, 2022, 7, .	1.5	10
5	Natural corrosion inhibitor of renewable eco-waste for SS-410 in sulfuric acid medium: adsorption, electrochemical, and computational studies. Journal of Molecular Liquids, 2022, 351, 118671.	4.9	24
6	Using Solvation Free Energy as an Additional Parameter for Corrosion Inhibition Inspection of Organic Compounds in Acid Media: An Evaluation Study. Advances in Materials Science and Engineering, 2022, 2022, 1-5.	1.8	0
7	Combination of experimental, surface and computational insight into the corrosion inhibition of pyrimidine derivative onto Q235 steel in oilfield acidizing fluid under hydrodynamic condition. Journal of Molecular Liquids, 2022, 353, 118825.	4.9	11
8	Mechanistic understanding of Nickel(II) adsorption onto fluorapatite-based natural phosphate via Rietveld refinement combined with Monte Carlo simulations. Journal of Solid State Chemistry, 2022, 310, 123023.	2.9	7
9	Corrosion inhibitors for oil and gas systems. , 2022, , 111-126.		0
10	Adsorption study of N-(benzo[d]thiazol-2-yl)-1-(thiophene-2-yl) methanimine at mild steel/aqueous H2SO4 interface. Surfaces and Interfaces, 2022, 33, 102169.	3.0	19
11	Synthesis of zirconium-modified Merlinoite from fly ash for enhanced removal of phosphate in aqueous medium: Experimental studies supported by Monte Carlo/SA simulations. Chemical Engineering Journal, 2021, 404, 126600.	12.7	74
12	Virgin and chemically functionalized amino acids as green corrosion inhibitors: Influence of molecular structure through experimental and in silico studies. Journal of Molecular Structure, 2021, 1226, 129259.	3.6	38
13	Syntheses of novel 1,5-benzodiazepine derivatives: Crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies, DFT calculations, corrosion inhibition anticipation, and antibacterial activities. Journal of Heterocyclic Chemistry, 2021, 58, 270-289.	2.6	12
14	Corrosion inhibition potential of 2-[(5-methylpyrazol-3-yl)methyl]benzimidazole against carbon steel corrosion in 1M HCl solution: Combining experimental and theoretical studies. Journal of Molecular Liquids, 2021, 321, 114750.	4.9	75
15	New alkyl (cyclohexyl) 2-oxo-1-(prop-2-yn-1-yl)-1, 2-dihydroquinoline-4-carboxylates: Synthesis, crystal structure, spectroscopic characterization, hirshfeld surface analysis, molecular docking studies and DFT calculations. Journal of Molecular Structure, 2021, 1227, 129520.	3.6	11
16	Assessment of Corrosion Inhibition Performance and Adsorption Thermodynamics of Hydrogen Phosphate (HPO_4^{2-}) and Molybdate (MoO_4^{2-}) Oxyanions on Tin in Maleic Acid. Electroanalysis, 2021, 33, 804-819.	2.9	6
17	Electrochemical and in silico investigations into the corrosion inhibition of cyclic amino acids on tin metal in the saline environment. Surfaces and Interfaces, 2021, 23, 100966.	3.0	25
18	Sodium nitrite as a corrosion inhibitor of copper in simulated cooling water. Scientific Reports, 2021, 11, 8353.	3.3	17

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19	Synthesis, structure elucidation, Hirshfeld surface analysis, DFT, molecular docking and Monte Carlo simulation of new quinoline-4-carboxylate derivatives. <i>Journal of Molecular Structure</i> , 2021, 1234, 130195.	3.6	3
20	Syntheses, single crystal X-ray structure, Hirshfeld surface analyses, DFT computations and Monte Carlo simulations of New Eugenol derivatives bearing 1,2,3-triazole moiety. <i>Journal of Molecular Structure</i> , 2021, 1234, 130189.	3.6	19
21	Experimental investigation and molecular dynamic simulation of Tannic acid as an eco-friendly inhibitor for calcium carbonate scale. <i>Journal of Molecular Liquids</i> , 2021, 340, 117225.	4.9	13
22	Iron-zirconium microwave-assisted modification of small-pore zeolite W and its alginate composites for enhanced aqueous removal of As(V) ions: Experimental and theoretical studies. <i>Chemical Engineering Journal</i> , 2021, 421, 129909.	12.7	41
23	New 1,2,3-triazole containing benzimidazolone derivatives: Syntheses, crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, DFT calculations, anti-corrosion property anticipation, and antibacterial activities. <i>Journal of Molecular Structure</i> , 2021, 1242, 130719.	3.6	6
24	Inhibition effect of newly synthesized benzoxanthonederivative on hydrogen evolution and Q235 steelcorrosion in 15% HCl under hydrodynamic condition: Combination of experimental, surface and computational study. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37995-38007.	7.1	5
25	Valorization of Crocus Sativus L waste extracts as efficient, eco-friendly and economical inhibitors of scaling: Experimental and computational investigations. <i>Journal of Molecular Liquids</i> , 2021, 344, 117718.	4.9	10
26	Theoretical evaluation of some α -amino acids for corrosion inhibition of copper in acidic medium: DFT calculations, Monte Carlo simulations and QSPR studies. <i>Journal of King Saud University - Science</i> , 2020, 32, 163-171.	3.5	66
27	Amino acids and their derivatives as corrosion inhibitors for metals and alloys. <i>Arabian Journal of Chemistry</i> , 2020, 13, 740-771.	4.9	221
28	Electrochemical removal of methylene bleu dye in aqueous solution using Ti/RuO ₂ and IrO ₂ and SnO ₂ electrodes. <i>Separation Science and Technology</i> , 2020, 55, 1852-1861.	2.5	44
29	Understanding of anti-corrosive behavior of some tetrazole derivatives in acidic medium: Adsorption on Cu (111) surface using quantum chemical calculations and Monte Carlo simulations. <i>Surface Science</i> , 2020, 702, 121692.	1.9	39
30	Syntheses, crystal structures, spectroscopic characterizations, DFT calculations, hirshfeld surface analyses and monte carlo simulations of novel long-chain alkyl-substituted 1,4-benzothiazine derivatives. <i>Journal of Molecular Structure</i> , 2020, 1221, 128886.	3.6	2
31	The role of pH in corrosion inhibition of tin using the proline amino acid: theoretical and experimental investigations. <i>RSC Advances</i> , 2020, 10, 29696-29704.	3.6	56
32	In silico investigations of alginate biopolymer on the Fe (110), Cu (111), Al (111) and Sn (001) surfaces in acidic media: Quantum chemical and molecular mechanic calculations. <i>Journal of Molecular Liquids</i> , 2020, 312, 113479.	4.9	54
33	Atomic-scale investigation onto the inhibition process of three 1,5-benzodiazepin-2-one derivatives against iron corrosion in acidic environment. <i>Colloids and Interface Science Communications</i> , 2020, 37, 100279.	4.1	51
34	Furfural Analogs as Sustainable Corrosion Inhibitorsâ€”Predictive Efficiency Using DFT and Monte Carlo Simulations on the Cu(111), Fe(110), Al(111) and Sn(111) Surfaces in Acid Media. <i>Sustainability</i> , 2020, 12, 3304.	3.2	55
35	Removal of the Rhodamine B Dye at Ti/Ru _{0.3} Ti _{0.7} O ₂ Anode Using Flow Cell System. <i>Journal of Chemistry</i> , 2019, 2019, 1-10.	1.9	12
36	Understanding the influence of solution's pH on the corrosion of tin in saline solution containing functional amino acids using electrochemical techniques and molecular modeling. <i>Surfaces and Interfaces</i> , 2019, 17, 100343.	3.0	38

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37	Effect of solution's pH and molecular structure of three linear α -amino acids on the corrosion of tin in salt solution: A combined experimental and theoretical approach. <i>Journal of Molecular Structure</i> , 2019, 1196, 105-118.	3.6	51
38	Electrochemical decolorization of Rhodamine B dye: Influence of anode material, chloride concentration and current density. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2041-2047.	6.7	91
39	Alginate biopolymer as green corrosion inhibitor for copper in 1×10^{-3} M hydrochloric acid: Experimental and theoretical approaches. <i>Journal of Molecular Structure</i> , 2018, 1157, 408-417.	3.6	96
40	Chitosan polymer as a green corrosion inhibitor for copper in sulfide-containing synthetic seawater. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1311-1323.	7.5	86
41	Application of Zizyphus Lotuse - pulp of Jujube extract as green and promising corrosion inhibitor for copper in acidic medium. <i>Journal of Molecular Liquids</i> , 2018, 268, 102-113.	4.9	68
42	Electro-Fenton Degradation of Trimellitic and Pyromellitic Acids: Kinetics and Mechanism. <i>Electrocatalysis</i> , 2018, 9, 716-724.	3.0	6
43	Cysteine Duality Effect on the Corrosion Inhibition and Acceleration of 3003 Aluminium Alloy in a 2% NaCl Solution. <i>Portugaliae Electrochimica Acta</i> , 2018, 36, 403-422.	1.1	36
44	Chitosan as an eco-friendly inhibitor for copper corrosion in acidic medium: protocol and characterization. <i>Cellulose</i> , 2017, 24, 3843-3867.	4.9	69
45	Computational study of some triazole derivatives (un- and protonated forms) and their copper complexes in corrosion inhibition process. <i>Journal of Molecular Structure</i> , 2016, 1125, 93-102.	3.6	84
46	The Application of Chitosan-Based Compounds against Metallic Corrosion. , 0, , .		1
47	Enhanced electrochemical degradation of a basic dye with Ti/Ru _{0.3} Ti _{0.7} O ₂ anode using flow-cell. , 0, 139, 352-369.		14
48	Azole-Based Compounds as Corrosion Inhibitors for Metallic Materials. , 0, , .		6
49	One-Step Synthesis of novel N1 α -substituted benzimidazole derivatives: Experimental and theoretical investigations. <i>Journal of Heterocyclic Chemistry</i> , 0, , .	2.6	3
50	An Overview of Corrosion. <i>ACS Symposium Series</i> , 0, , 1-19.	0.5	3