

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	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
2	Alginate biopolymer as green corrosion inhibitor for copper in 1M hydrochloric acid: Experimental and theoretical approaches. <i>Journal of Molecular Structure</i> , 2018, 1157, 408-417.	3.6	96
3	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
4	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
5	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
6	Corrosion inhibition potential of 2-[(5-methylpyrazol-3-yl)methyl]benzimidazole against carbon steel corrosion in 1M HCl solution: Combining experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2021, 321, 114750.	4.9	75
7	Synthesis of zirconium-modified Merlinoite from fly ash for enhanced removal of phosphate in aqueous medium: Experimental studies supported by Monte Carlo/SA simulations. <i>Chemical Engineering Journal</i> , 2021, 404, 126600.	12.7	74
8	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
9	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
10	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
11	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
12	Furfural Analogs as Sustainable Corrosion Inhibitors—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
13	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
14	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
15	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
16	Electrochemical removal of methylene blue 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
17	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
18	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

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19	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
20	Virgin and chemically functionalized amino acids as green corrosion inhibitors: Influence of molecular structure through experimental and in silico studies. <i>Journal of Molecular Structure</i> , 2021, 1226, 129259.	3.6	38
21	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
22	Electrochemical and in silico investigations into the corrosion inhibition of cyclic amino acids on tin metal in the saline environment. <i>Surfaces and Interfaces</i> , 2021, 23, 100966.	3.0	25
23	Natural corrosion inhibitor of renewable eco-waste for SS-410 in sulfuric acid medium: adsorption, electrochemical, and computational studies. <i>Journal of Molecular Liquids</i> , 2022, 351, 118671.	4.9	24
24	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
25	Adsorption study of N (-benzo[d]thiazol-2-yl)-1-(thiophene-2-yl) methanimine at mild steel/aqueous H ₂ SO ₄ interface. <i>Surfaces and Interfaces</i> , 2022, 33, 102169.	3.0	19
26	Sodium nitrite as a corrosion inhibitor of copper in simulated cooling water. <i>Scientific Reports</i> , 2021, 11, 8353.	3.3	17
27	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
28	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
29	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
30	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. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 270-289.	2.6	12
31	New tetrazoles compounds incorporating galactose moiety: Synthesis, crystal structure, spectroscopic characterization, Hirshfeld surface analysis, molecular docking studies, DFT calculations and anti-corrosion property anticipation. <i>Journal of Molecular Structure</i> , 2022, 1247, 131300.	3.6	12
32	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. <i>Journal of Molecular Structure</i> , 2021, 1227, 129520.	3.6	11
33	Combination of experimental, surface and computational insight into the corrosion inhibition of pyrimidine derivative onto Q235 steel in oilfield acidizing fluid under hydrodynamic condition. <i>Journal of Molecular Liquids</i> , 2022, 353, 118825.	4.9	11
34	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
35	Experimental and Theoretical Study to Understand the Adsorption Process of p-Anisidine and 4-Nitroaniline for the Dissolution of C38 Carbon Steel in 1M HCl. <i>ChemistrySelect</i> , 2022, 7, .	1.5	10
36	Mechanistic understanding of Nickel(II) adsorption onto fluorapatite-based natural phosphate via Rietveld refinement combined with Monte Carlo simulations. <i>Journal of Solid State Chemistry</i> , 2022, 310, 123023.	2.9	7

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37	Electro-Fenton Degradation of Trimellitic and Pyromellitic Acids: Kinetics and Mechanism. <i>Electrocatalysis</i> , 2018, 9, 716-724.	3.0	6
38	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. <i>Electroanalysis</i> , 2021, 33, 804-819.	2.9	6
39	Sour corrosion of C1018 carbon steel and its inhibition by benzimidazole: electrochemical, SEM, FTIR and computational assessment. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 774-794.	2.6	6
40	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
41	Azole-Based Compounds as Corrosion Inhibitors for Metallic Materials. , 0, , .		6
42	Inhibition effect of newly synthesized benzoxanthenes derivative on hydrogen evolution and Q235 steel corrosion 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
43	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
44	One-step Synthesis of novel N1-substituted benzimidazole derivatives: Experimental and theoretical investigations. <i>Journal of Heterocyclic Chemistry</i> , 0, , .	2.6	3
45	An Overview of Corrosion. <i>ACS Symposium Series</i> , 0, , 1-19.	0.5	3
46	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
47	The Application of Chitosan-Based Compounds against Metallic Corrosion. , 0, , .		1
48	Molybdates as corrosion inhibitors. , 2022, , 297-321.		0
49	Using Solvation Free Energy as an Additional Parameter for Corrosion Inhibition Inspection of Organic Compounds in Acid Media: An Evaluation Study. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-5.	1.8	0
50	Corrosion inhibitors for oil and gas systems. , 2022, , 111-126.		0