Ahmed Elharfi

List of Publications by Year
in descending order

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44 papers	2,876 citations	257429 24 h-index	265191 42 g-index
44 all docs	44 docs citations	44 times ranked	1369 citing authors

#	Article	IF	Citations
1	Textile finishing dyes and their impact on aquatic environs. Heliyon, 2019, 5, e02711.	3.2	466
2	Polymer composite materials: A comprehensive review. Composite Structures, 2021, 262, 113640.	5.8	372
3	Evaluation of corrosion inhibition performance of phosphorus polymer for carbon steel in [1 M] HCl: Computational studies (DFT, MC and MD simulations). Journal of Materials Research and Technology, 2020, 9, 2691-2703.	5.8	189
4	Novel derivative epoxy resin TGETET as a corrosion inhibition of E24 carbon steel in 1.0â€¯M HCl solution. Experimental and computational (DFT and MD simulations) methods. Journal of Molecular Liquids, 2019, 284, 182-192.	4.9	178
5	Development and potential performance of prepolymer in corrosion inhibition for carbon steel in 1.0ÂM HCl: Outlooks from experimental and computational investigations. Journal of Colloid and Interface Science, 2020, 574, 43-60.	9.4	175
6	Trifunctional epoxy polymer as corrosion inhibition material for carbon steel in 1.0ÂM HCl: MD simulations, DFT and complexation computations. Inorganic Chemistry Communication, 2020, 115, 107858.	3.9	162
7	Experimental, DFT and molecular dynamics simulation on the inhibition performance of the DGDCBA epoxy polymer against the corrosion of the E24 carbon steel in 1.0â€¯M HCl solution. Journal of Molecular Structure, 2019, 1182, 340-351.	3.6	112
8	Synthesis and anticorrosive properties of epoxy polymer for CS in [1ÂM] HCl solution: Electrochemical, AFM, DFT and MD simulations. Construction and Building Materials, 2021, 270, 121454.	7.2	92
9	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
10	Review on epoxy polymers and its composites as a potential anticorrosive coatings for carbon steel in 3.5% NaCl solution: Computational approaches. Journal of Molecular Liquids, 2021, 336, 116307.	4.9	87
11	Anticorrosive property of hexafunctional epoxy polymer HGTMDAE for E24 carbon steel corrosion in 1.0ÂM HCl: gravimetric, electrochemical, surface morphology and molecular dynamic simulations. Polymer Bulletin, 2020, 77, 3577-3601.	3.3	79
12	Rheological properties of composite polymers and hybrid nanocomposites. Heliyon, 2020, 6, e04187.	3.2	69
13	Synthesis characterization rheological and morphological study of a new epoxy resin pentaglycidyl ether pentaphenoxy of phosphorus and their composite (PGEPPP/MDA/PN). Polymer Bulletin, 2019, 76, 4859-4878.	3.3	67
14	Development rheological and anti-corrosion property of epoxy polymer and its composite. Heliyon, 2019, 5, e02789.	3.2	59
15	Removal of heavy metals (nickel) contained in wastewater-models by the adsorption technique on natural clay. Materials Today: Proceedings, 2019, 13, 866-875.	1.8	53
16	Synthesis of new low-cost organic ultrafiltration membrane made from Polysulfone/Polyetherimide blends and its application for soluble azoic dyes removal. Journal of Materials Research and Technology, 2020, 9, 4763-4772.	5.8	50
17	Rheological behavior of three polymers and their hybrid composites (TGEEBA/MDA/PN), (HGEMDA/MDA/PN) and (NGHPBAE/MDA/PN). Journal of King Saud University - Science, 2020, 32, 235-244.	3.5	49
18	New epoxy composite polymers as a potential anticorrosive coatings for carbon steel in 3.5% NaCl solution: Experimental and computational approaches. Chemical Data Collections, 2021, 31, 100619.	2.3	48

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19	Investigation of structure and rheological behavior of a new epoxy polymer pentaglycidyl ether pentabisphenol A of phosphorus and of its composite with natural phosphate. SN Applied Sciences, 2019, 1, 1.	2.9	47
20	Performance of curing epoxy resin as potential anticorrosive coating for carbon steel in 3.5% NaCl medium: Combining experimental and computational approaches. Chemical Physics Letters, 2021, 783, 139081.	2.6	46
21	Performance of two new epoxy resins as potential corrosion inhibitors for carbon steel in 1MHCl medium: Combining experimental and computational approaches. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127066.	4.7	44
22	Theoretical and Electrochemical Studies of the Coating Behavior of a New Epoxy Polymer: Hexaglycidyl Ethylene of Methylene Dianiline (HGEMDA) on E24 Steel in 3.5% NaCl. Portugaliae Electrochimica Acta, 2018, 36, 101-117.	1.1	41
23	Insight of development of two cured epoxy polymer composite coatings as highly protective efficiency for carbon steel in sodium chloride solution: DFT, RDF, FFV and MD approaches. Journal of Molecular Liquids, 2022, 360, 119406.	4.9	35
24	Gravimetric, electrochemical and theoretical study, and surface analysis of novel epoxy resin as corrosion inhibitor of carbon steel in 0.5ÂM H2SO4 solution. Journal of Molecular Structure, 2021, 1245, 131014.	3.6	34
25	Adsorption properties of coriander seeds: Spectroscopic kinetic thermodynamic and computational approaches. Journal of Molecular Liquids, 2021, 343, 116971.	4.9	29
26	Synthesis rheological and thermal studies of epoxy polymer and its composite. Chemical Data Collections, 2020, 30, 100584.	2.3	27
27	Development and Anti-corrosion Performance of Polymeric Epoxy Resin and their Zinc Phosphate Composite on 15CDV6 Steel in 3wt% NaCl: Experimental and Computational Studies. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	24
28	Viscosimetric and rheological properties of epoxy resin TGEUBA and their composite (TGEUBA/MDA/TGEMDA+TSP). Results in Engineering, 2019, 4, 100058.	5.1	23
29	Evaluation of Mechanical compressive strength of cementitious matrix with 12% of IER formulated by modified polymer (NEPS) at different percentages. Scientific Reports, 2020, 10, 2461.	3.3	18
30	Investigation of the anti-corrosion properties of Galactomannan as additive in epoxy coatings for carbon steel: Rheological and electrochemical study. Inorganic Chemistry Communication, 2021, 134, 108971.	3.9	15
31	Optimization of the synthesis of ultrafiltration asymmetric membranes based on organic polymers. Results in Engineering, 2020, 6, 100116.	5.1	14
32	Comparative study of the impact of conventional and unconventional drying processes on phycobiliproteins from Arthrospira platensis. Algal Research, 2021, 53, 102165.	4.6	14
33	One pot synthesis of silver nanoparticles on ITO surfaces: investigation of optical and electrochemical properties. EPJ Applied Physics, 2020, 91, 30401.	0.7	11
34	Investigation of modified chitosan as potential polyelectrolyte polymer and eco-friendly for the treatment of galvanization wastewater using novel hybrid process. Results in Chemistry, 2020, 2, 100047.	2.0	11
35	Investigation of snail shell waste as potential and eco-friendly heterogeneous catalyst for synthesis of 1-(benzothiazolylamino) methyl-2-naphthols derivatives. Chemical Data Collections, 2021, 31, 100599.	2.3	10
36	3D-QSAR studies of the chemical modification of hydroxyl groups of biomass (cellulose,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (he	3.2	9

#	Article	IF	Citations
37	Morphological and rheological study of the epoxy polymer and their nanocomposite (NGTHTPTBAE/MDA/TSP) crosslinked by methylene dianiline and formulated by trisodium phosphate. Journal of the Turkish Chemical Society, Section A: Chemistry, 0, , 237-244.	1.1	6
38	Data on effect of a reducer of water and retarder of setting time admixtures of cement pastes and mortar in hardened stat. Data in Brief, 2018, 18, 454-462.	1.0	4
39	Comportement thermique et diÃ©lectrique dâ€™une nouvelle rÃ©sine Ã©poxyde Ã base de tÃ©traglycidylede lâ€™amino-4 benzÃ¨ne sulfonamide (TGABSA) rÃ©ticulÃ©e par diamines. Annales De Chimie: Science Des Materiaux, 2008, 33, 479-492.	0.4	4
40	Etude comparative des propriÃ©tes diÃ©lectriques des systÃ¨mes epoxy-amine dans un champ Ã©lectrique Ã basse frÃ©quence. Annales De Chimie: Science Des Materiaux, 2009, 34, 141-153.	0.4	4
41	Etude des propriÃ©tÃ©s thermiques, mÃ©caniques et diÃ©lectriques dâ€™un matÃ©riau composite Ã base de DGEBA flexibilisÃ© par le CTBN. Annales De Chimie: Science Des Materiaux, 2010, 35, 99-112.	0.4	4
42	Synthesis, Structural, Viscosimetric, And Rheological Study, of A New Trifunctional Phosphorus Epoxyde Prepolymer , Tri-Glycidyl Ether Tri-Mercaptoethanol Of Phosphore (TGETMEP). Mediterranean Journal of Chemistry, 2016, 6, 665-673.	0.7	3
43	Etude du comportement retardateur de dÃ©gradation thermique de deux nouvelles rÃ©sines Ã©poxydes tÃ©tra et hexa fonctionnelles derivÃ©es organophosphatÃ©s. Annales De Chimie: Science Des Materiaux, 2012, 37, 85-96.	0.4	2
44	AmÃ©lioration de la stabilitÃ© thermique dâ€™un matÃ©riau Ã base de rÃ©sine conventionnelle DGEBA par formulation avec une rÃ©sine Ã©poxyde sulfonÃ©e et des charges minÃ©rales Al₂O₃et Zn. Annales De Chimie: Science Des Materiaux, 2011, 36, 1-10.	0.4	0