

Ahmed Elharfi

List of Publications by Year in Descending Order

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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.

44 papers	1,359 citations	19 h-index	36 g-index
44 ext. papers	2,042 ext. citations	3.2 avg, IF	5.79 L-index

#	Paper	IF	Citations
44	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. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119406	6	3
43	Investigation of the anti-corrosion properties of Galactomannan as additive in epoxy coatings for carbon steel: Rheological and electrochemical study. <i>Inorganic Chemistry Communication</i> , 2021 , 134, 108971	3.7	2
42	Comparative study of the impact of conventional and unconventional drying processes on phycobiliproteins from <i>Arthrospira platensis</i> . <i>Algal Research</i> , 2021 , 53, 102165	5	5
41	Polymer composite materials: A comprehensive review. <i>Composite Structures</i> , 2021 , 262, 113640	5.3	92
40	Adsorption properties of coriander seeds: Spectroscopic kinetic thermodynamic and computational approaches. <i>Journal of Molecular Liquids</i> , 2021 , 343, 116971	6	6
39	Synthesis and anticorrosive properties of epoxy polymer for CS in [1 M] HCl solution: Electrochemical, AFM, DFT and MD simulations. <i>Construction and Building Materials</i> , 2021 , 270, 121454	6.7	41
38	New epoxy composite polymers as a potential anticorrosive coatings for carbon steel in 3.5% NaCl solution: Experimental and computational approaches. <i>Chemical Data Collections</i> , 2021 , 31, 100619	2.1	23
37	Investigation of snail shell waste as potential and eco-friendly heterogeneous catalyst for synthesis of 1-(benzothiazolylamino) methyl-2-naphthols derivatives. <i>Chemical Data Collections</i> , 2021 , 31, 100599	2.1	3
36	Review on epoxy polymers and its composites as a potential anticorrosive coatings for carbon steel in 3.5% NaCl solution: Computational approaches. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116307	6	40
35	Performance of curing epoxy resin as potential anticorrosive coating for carbon steel in 3.5% NaCl medium: Combining experimental and computational approaches. <i>Chemical Physics Letters</i> , 2021 , 783, 139081	2.5	5
34	Performance of two new epoxy resins as potential corrosion inhibitors for carbon steel in 1M HCl medium: Combining experimental and computational approaches. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127066	5.1	10
33	Gravimetric, electrochemical and theoretical study, and surface analysis of novel epoxy resin as corrosion inhibitor of carbon steel in 0.5 M H ₂ SO ₄ solution. <i>Journal of Molecular Structure</i> , 2021 , 1245, 131014	3.4	7
32	Investigation of modified chitosan as potential polyelectrolyte polymer and eco-friendly for the treatment of galvanization wastewater using novel hybrid process. <i>Results in Chemistry</i> , 2020 , 2, 100047	2.1	8
31	Rheological properties of composite polymers and hybrid nanocomposites. <i>Heliyon</i> , 2020 , 6, e04187	3.6	43
30	Synthesis of new low-cost organic ultrafiltration membrane made from Polysulfone/Polyetherimide blends and its application for soluble azoic dyes removal. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 4763-4772	5.5	26
29	Optimization of the synthesis of ultrafiltration asymmetric membranes based on organic polymers. <i>Results in Engineering</i> , 2020 , 6, 100116	3.3	7
28	Evaluation of Mechanical compressive strength of cementitious matrix with 12% of IER formulated by modified polymer (NEPS) at different percentages. <i>Scientific Reports</i> , 2020 , 10, 2461	4.9	17

27	Trifunctional epoxy polymer as corrosion inhibition material for carbon steel in 1.0 M HCl: MD simulations, DFT and complexation computations. <i>Inorganic Chemistry Communication</i> , 2020 , 115, 107858	3.1	91
26	Evaluation of corrosion inhibition performance of phosphorus polymer for carbon steel in [1 M] HCl: Computational studies (DFT, MC and MD simulations). <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2691-2703	5.5	97
25	Development and potential performance of prepolymer in corrosion inhibition for carbon steel in 1.0 M HCl: Outlooks from experimental and computational investigations. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 43-60	9.3	106
24	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
23	Synthesis rheological and thermal studies of epoxy polymer and its composite. <i>Chemical Data Collections</i> , 2020 , 30, 100584	2.1	7
22	One pot synthesis of silver nanoparticles on ITO surfaces: investigation of optical and electrochemical properties. <i>EPJ Applied Physics</i> , 2020 , 91, 30401	1.1	7
21	Rheological behavior of three polymers and their hybrid composites (TGEEBA/MDA/PN), (HGEMDA/MDA/PN) and (NGHPBAE/MDA/PN). <i>Journal of King Saud University - Science</i> , 2020 , 32, 235-244	3.6	31
20	Anticorrosive property of hexafunctional epoxy polymer HGTMDAE for E24 carbon steel corrosion in 1.0 M HCl: gravimetric, electrochemical, surface morphology and molecular dynamic simulations. <i>Polymer Bulletin</i> , 2020 , 77, 3577-3601	2.4	41
19	3D-QSAR studies of the chemical modification of hydroxyl groups of biomass (cellulose, hemicelluloses and lignin) using quantum chemical descriptors. <i>Heliyon</i> , 2019 , 5, e02173	3.6	6
18	Removal of heavy metals (nickel) contained in wastewater-models by the adsorption technique on natural clay. <i>Materials Today: Proceedings</i> , 2019 , 13, 866-875	1.4	25
17	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
16	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
15	Investigation of structure and rheological behavior of a new epoxy polymer pentaglycidyl ether pentabispheol A of phosphorus and of its composite with natural phosphate. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	14
14	Textile finishing dyes and their impact on aquatic environs. <i>Heliyon</i> , 2019 , 5, e02711	3.6	193
13	Development rheological and anti-corrosion property of epoxy polymer and its composite. <i>Heliyon</i> , 2019 , 5, e02789	3.6	44
12	Viscosimetric and rheological properties of epoxy resin TGEUBA and their composite (TGEUBA/MDA/TGEMDA+TSP). <i>Results in Engineering</i> , 2019 , 4, 100058	3.3	15
11	Experimental, DFT and molecular dynamics simulation on the inhibition performance of the DGDCBA epoxy polymer against the corrosion of the E24 carbon steel in 1.0 M HCl solution. <i>Journal of Molecular Structure</i> , 2019 , 1182, 340-351	3.4	78
10	Synthesis characterization rheological and morphological study of a new epoxy resin pentaglycidyl ether pentaphenoxy of phosphorus and their composite (PGEPPP/MDA/PN). <i>Polymer Bulletin</i> , 2019 , 76, 4859-4878	2.4	44

9	Data on effect of a reducer of water and retarder of setting time admixtures of cement pastes and mortar in hardened stat. <i>Data in Brief</i> , 2018 , 18, 454-462	1.2	3
8	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. <i>Portugaliae Electrochimica Acta</i> , 2018 , 36, 101-117	2.4	27
7	Synthesis, Structural, Viscosimetric, And Rheological Study, of A New Trifunctional Phosphorus Epoxyde Prepolymer , Tri-Glycidyl Ether Tri-Mercaptoethanol Of Phosphore (TGETMEP). <i>Mediterranean Journal of Chemistry</i> , 2016 , 6, 665-673	1.8	3
6	Etude du comportement retardateur de dgradation thermique de deux nouvelles rines pxydes tra et hexa fonctionnelles derivs organophosphat. <i>Annales De Chimie: Science Des Materiaux</i> , 2012 , 37, 85-96	2.1	1
5	Amioration de la stabilitthermique d'un matiau base de rine conventionnelle DGEBA par formulation avec une rine pxyde sulfon et des charges miniales Al ₂ O ₃ et Zn. <i>Annales De Chimie: Science Des Materiaux</i> , 2011 , 36, 1-10	2.1	
4	Etude des propri thermiques, mcaniques et diectriques d'un matiau composite base de DGEBA flexibilispar le CTBN. <i>Annales De Chimie: Science Des Materiaux</i> , 2010 , 35, 99-112	2.1	4
3	Etude comparative des propri es diectriques des syst es epoxy-amine dans un champ lectrique abasse frquence. <i>Annales De Chimie: Science Des Materiaux</i> , 2009 , 34, 141-153	2.1	4
2	Comportement thermique et diectrique d'une nouvelle rine pxyde base de ttraglycidylede lmino-4 benz e sulfonamide (TGABSA) ricul par diamines. <i>Annales De Chimie: Science Des Materiaux</i> , 2008 , 33, 479-492	2.1	4
1	Morphological and rheological study of the epoxy polymer and their nanocomposite (NGTHPTBAE/MDA/TSP) crosslinked by methylene dianiline and formulated by trisodium phosphate. <i>Journal of the Turkish Chemical Society, Section A: Chemistry</i> , 237-244	0.5	6