

# Ekemini D Akpan

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

722  
citations

516561

16  
h-index

642610

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxy resins as anticorrosive polymeric materials: A review. <i>Reactive and Functional Polymers</i> , 2020, 156, 104741.	2.0	144
2	Molecular modelling of compounds used for corrosion inhibition studies: a review. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19987-20027.	1.3	78
3	Rheological, electrochemical, surface, DFT and molecular dynamics simulation studies on the anticorrosive properties of new epoxy monomer compound for steel in 1M HCl solution. <i>RSC Advances</i> , 2019, 9, 4454-4462.	1.7	62
4	Anticorrosive property of heterocyclic based epoxy resins on carbon steel corrosion in acidic medium: Electrochemical, surface morphology, DFT and Monte Carlo simulation studies. <i>Journal of Molecular Liquids</i> , 2019, 287, 110977.	2.3	44
5	Impact of selected ionic liquids on corrosion protection of mild steel in acidic medium: Experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 314, 113609.	2.3	42
6	Quantitative structure activity relationship and artificial neural network as vital tools in predicting coordination capabilities of organic compounds with metal surface: A review. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214101.	9.5	40
7	Zn(II) and Cu(II) formamidine complexes: structural, kinetics and polymer tacticity studies in the ring-opening polymerization of $\epsilon$ -caprolactone and lactides. <i>New Journal of Chemistry</i> , 2016, 40, 3499-3510.	1.4	33
8	Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 315, 113773.	2.3	33
9	Experimental, adsorption, quantum chemical and molecular dynamics simulation studies on the corrosion inhibition performance of Vincamine on J55 steel in acidic medium. <i>Journal of Molecular Structure</i> , 2021, 1227, 129533.	1.8	29
10	Molecularly imprinted polymers (MIPs) based electrochemical sensors for the determination of catecholamine neurotransmitters – Review. <i>Electrochemical Science Advances</i> , 2021, 1, e2000026.	1.2	27
11	Chromeno-carbonitriles as corrosion inhibitors for mild steel in acidic solution: electrochemical, surface and computational studies. <i>RSC Advances</i> , 2021, 11, 2462-2475.	1.7	26
12	Computational insights into quinoxaline-based corrosion inhibitors of steel in HCl: Quantum chemical analysis and QSPR-ANN studies. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103870.	2.3	23
13	N-substituted carbazoles as corrosion inhibitors in microbiologically influenced and acidic corrosion of mild steel: Gravimetric, electrochemical, surface and computational studies. <i>Journal of Molecular Structure</i> , 2021, 1223, 129328.	1.8	22
14	Structural and kinetic studies of the ring-opening polymerization of cyclic esters using N,N <sup>2</sup> -diarylformamidines Zn(II) complexes. <i>Polyhedron</i> , 2016, 110, 63-72.	1.0	20
15	Acridine-based thiosemicarbazones as novel inhibitors of mild steel corrosion in 1 M HCl: synthesis, electrochemical, DFT and Monte Carlo simulation studies. <i>RSC Advances</i> , 2019, 9, 29590-29599.	1.7	20
16	Synthesis, physicochemical properties, theoretical and electrochemical studies of tetraglycidyl methylenedianiline. <i>Journal of Molecular Structure</i> , 2022, 1265, 133508.	1.8	20
17	Development of QSAR-based (MLR/ANN) predictive models for effective design of pyridazine corrosion inhibitors. <i>Materials Today Communications</i> , 2022, 30, 103163.	0.9	18
18	Synthesis of novel 1,2,4-thiadiazinane 1,1-dioxides via three component SuFEx type reaction. <i>RSC Advances</i> , 2018, 8, 37503-37507.	1.7	10

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19	Recent progress in epoxy resins as corrosion inhibitors: design and performance. Journal of Adhesion Science and Technology, 2023, 37, 923-944.	1.4	10
20	Recent progress on the anticorrosion activities of acridine and acridone derivatives: A review. Journal of Molecular Liquids, 2022, 361, 119686.	2.3	8
21	Fundamentals of corrosion chemistry. , 2022, , 25-45.		4
22	Kinetics, mechanisms and polymer property studies of ring-opening polymerization of $\epsilon$ -caprolactone and lactides initiated by (benzimidazolymethyl)amino Zn(II) alkoxides. Polymer Bulletin, 2018, 75, 5179-5195.	1.7	3
23	Corrosion performance of Schiff base derived from 2, 5-dimethoxybenzaldehyde: X-ray structure, experimental and DFT studies. Chemical Papers, 2022, 76, 5187-5200.	1.0	3
24	Ring-Opening Polymerization Reactions of $\epsilon$ -Caprolactone and Lactides Initiated by (Benzimidazolymethyl)amino Magnesium(II) Alkoxides. Australian Journal of Chemistry, 2018, 71, 341.	0.5	2
25	Crystal structure of 2,4-pentanedione bis(2,4-dinitrophenylhydrazone), C <sub>17</sub> H <sub>16</sub> N <sub>8</sub> O <sub>8</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 603-604.	0.1	0
26	Acridin-Based Thiosemicarbazones As Novel Corrosion Inhibitors in the Corrosion of Mild Steel in 1M HCl: Synthesis, Gravimetric, Electrochemical, and Quantum Chemical Studies. ECS Meeting Abstracts, 2019, , .	0.0	0
27	Functionalized Nanomaterials for Corrosion Mitigation: Synthesis, Characterization & Applications. ACS Symposium Series, 0, , 67-85.	0.5	0