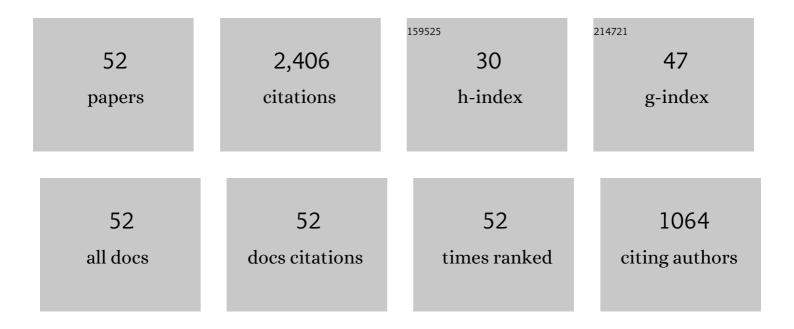
## Chandrabhan Verma

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis, characterization and corrosion inhibition potential of oxadiazole derivatives for mild steel in 1M HCl: Electrochemical and computational studies. Journal of Molecular Liquids, 2022, 348, 118021.	2.3	13
2	Aqueous phase polymeric corrosion inhibitors: Recent advancements and future opportunities. Journal of Molecular Liquids, 2022, 348, 118387.	2.3	34
3	Corrosion inhibition of steel using different families of organic compounds: Past and present progress. Journal of Molecular Liquids, 2022, 348, 118373.	2.3	33
4	Synthesis, characterization and anticorrosive effect of 2-(phenoxy methyl)-5-phenyl-1, 3, 4-oxadiazole for mild steel in 1ÂM HCI: A combined experimental and computational demonstrations. Journal of the Indian Chemical Society, 2022, 99, 100421.	1.3	6
5	Molecular structural aspects of organic corrosion inhibitors: Experimental and computational insights. Journal of Molecular Structure, 2021, 1227, 129374.	1.8	81
6	Designing of phosphorous based highly functional dendrimeric macromolecular resin as an effective coating material for carbon steel in <scp>NaCl</scp> : Computational and experimental studies. Journal of Applied Polymer Science, 2021, 138, 49673.	1.3	38
7	N-substituted carbazoles as corrosion inhibitors in microbiologically influenced and acidic corrosion of mild steel: Gravimetric, electrochemical, surface and computational studies. Journal of Molecular Structure, 2021, 1223, 129328.	1.8	22
8	Recent developments in sustainable corrosion inhibitors: design, performance and industrial scale applications. Materials Advances, 2021, 2, 3806-3850.	2.6	129
9	Molecular modelling of compounds used for corrosion inhibition studies: a review. Physical Chemistry Chemical Physics, 2021, 23, 19987-20027.	1.3	78
10	Thiol (-SH) substituent as functional motif for effective corrosion protection: A review on current advancements and future directions. Journal of Molecular Liquids, 2021, 324, 115111.	2.3	17
11	Present and emerging trends in using pharmaceutically active compounds as aqueous phase corrosion inhibitors. Journal of Molecular Liquids, 2021, 328, 115395.	2.3	20
12	Corrosion inhibition of mild steel in 1M HCl using environmentally benign Thevetia peruviana flower extracts. Sustainable Chemistry and Pharmacy, 2021, 19, 100354.	1.6	30
13	Influence of ring size on corrosion inhibition potential of environmental sustainable cycloalkyltriphenylphosphonium based ionic liquids: Computational and experimental demonstrations. Journal of the Taiwan Institute of Chemical Engineers, 2021, 123, 21-33.	2.7	8
14	Phthalocyanine, naphthalocyanine and their derivatives as corrosion inhibitors: A review. Journal of Molecular Liquids, 2021, 334, 116441.	2.3	33
15	Computational Modeling: Theoretical Predictive Tools for Designing of Potential Organic Corrosion Inhibitors. Journal of Molecular Structure, 2021, 1236, 130294.	1.8	54
16	Corrosion inhibition potential of chitosan based Schiff bases: Design, performance and applications. International Journal of Biological Macromolecules, 2021, 184, 135-143.	3.6	43
17	Synthesis and characterization of walnut husk extract-silver nanocomposites for removal of heavy metals from petroleum wastewater and its consequences on pipework steel corrosion. Journal of Molecular Liquids, 2021, 335, 116132.	2.3	23
18	Decyltriphenylphosphonium bromide containing hydrophobic alkyl-chain as a potential corrosion inhibitor for mild steel in sulfuric acid: Theoretical and experimental studies. Journal of Molecular Liquids, 2021, 336, 116166.	2.3	21

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19	Quantum dots as ecofriendly and aqueous phase substitutes of carbon family for traditional corrosion inhibitors: A perspective. Journal of Molecular Liquids, 2021, 343, 117648.	2.3	16
20	N-heterocycle compounds as aqueous phase corrosion inhibitors: A robust, effective and economic substitute. Journal of Molecular Liquids, 2021, 340, 117211.	2.3	24
21	Multifunctional silver nanocomposite: A potential material for antiscaling, antimicrobial and anticorrosive applications. Jcis Open, 2021, 3, 100012.	1.5	6
22	Quantitative structure activity relationship and artificial neural network as vital tools in predicting coordination capabilities of organic compounds with metal surface: A review. Coordination Chemistry Reviews, 2021, 446, 214101.	9.5	40
23	Recent progresses in Schiff bases as aqueous phase corrosion inhibitors: Design and applications. Coordination Chemistry Reviews, 2021, 446, 214105.	9.5	117
24	Chromeno-carbonitriles as corrosion inhibitors for mild steel in acidic solution: electrochemical, surface and computational studies. RSC Advances, 2021, 11, 2462-2475.	1.7	26
25	Chelation capability of chitosan and chitosan derivatives: Recent developments in sustainable corrosion inhibition and metal decontamination applications. Current Research in Green and Sustainable Chemistry, 2021, 4, 100184.	2.9	13
26	Pyrazole derivatives as environmental benign acid corrosion inhibitors for mild steel: Experimental and computational studies. Journal of Molecular Liquids, 2020, 298, 111943.	2.3	54
27	Antiâ€corrosive property of bioinspired environmental benign imidazole and isoxazoline heterocyclics: A cumulative studies of experimental and DFT methods. Journal of Heterocyclic Chemistry, 2020, 57, 103-119.	1.4	21
28	Epoxy prepolymer as a novel anti-corrosive material for carbon steel in acidic solution: Electrochemical, surface and computational studies. Materials Today Communications, 2020, 22, 100800.	0.9	28
29	Imidazoles as highly effective heterocyclic corrosion inhibitors for metals and alloys in aqueous electrolytes: A review. Journal of the Taiwan Institute of Chemical Engineers, 2020, 114, 341-358.	2.7	68
30	Quinoline and its derivatives as corrosion inhibitors: A review. Surfaces and Interfaces, 2020, 21, 100634.	1.5	63
31	Trifunctional epoxy resin as anticorrosive material for carbon steel in 1 M HCI: Experimental and computational studies. Surfaces and Interfaces, 2020, 21, 100707.	1.5	13
32	Impact of selected ionic liquids on corrosion protection of mild steel in acidic medium: Experimental and computational studies. Journal of Molecular Liquids, 2020, 314, 113609.	2.3	42
33	Experimental and computational studies on hydroxamic acids as environmental friendly chelating corrosion inhibitors for mild steel in aqueous acidic medium. Journal of Molecular Liquids, 2020, 314, 113651.	2.3	42
34	Synthesis of Macromolecular Aromatic Epoxy Resins as Anticorrosive Materials: Computational Modeling Reinforced Experimental Studies. ACS Omega, 2020, 5, 3151-3164.	1.6	23
35	Highly functionalized epoxy macromolecule as an anti-corrosive material for carbon steel: Computational (DFT, MDS), surface (SEM-EDS) and electrochemical (OCP, PDP, EIS) studies. Journal of Molecular Liquids, 2020, 302, 112535.	2.3	69
36	Experimental and computational investigations on the anti-corrosive and adsorption behavior of 7-N,N'-dialkyaminomethyl-8-Hydroxyquinolines on C40E steel surface in acidic medium. Journal of Colloid and Interface Science, 2020, 576, 330-344.	5.0	57

#	Article	IF	CITATIONS
37	Pyridine based N-heterocyclic compounds as aqueous phase corrosion inhibitors: A review. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 265-277.	2.7	65
38	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.	1.6	90
39	Adsorption and anticorrosive behavior of aromatic epoxy monomers on carbon steel corrosion in acidic solution: computational studies and sustained experimental studies. RSC Advances, 2019, 9, 14782-14796.	1.7	46
40	Anticorrosive property of heterocyclic based epoxy resins on carbon steel corrosion in acidic medium: Electrochemical, surface morphology, DFT and Monte Carlo simulation studies. Journal of Molecular Liquids, 2019, 287, 110977.	2.3	44
41	Rheological, electrochemical, surface, DFT and molecular dynamics simulation studies on the anticorrosive properties of new epoxy monomer compound for steel in 1ÂM HCl solution. RSC Advances, 2019, 9, 4454-4462.	1.7	62
42	Aqueous phase environmental friendly organic corrosion inhibitors derived from one step multicomponent reactions: A review. Journal of Molecular Liquids, 2019, 275, 18-40.	2.3	145
43	Ionic liquid-mediated functionalization of graphene-based materials for versatile applications: a review. Graphene Technology, 2019, 4, 1-15.	1.9	20
44	Experimental, density functional theory and molecular dynamics supported adsorption behavior of environmental benign imidazolium based ionic liquids on mild steel surface in acidic medium. Journal of Molecular Liquids, 2019, 273, 1-15.	2.3	92
45	Melamine derivatives as effective corrosion inhibitors for mild steel in acidic solution: Chemical, electrochemical, surface and DFT studies. Results in Physics, 2018, 9, 100-112.	2.0	41
46	Adsorption characteristics of green 5-arylaminomethylene pyrimidine-2,4,6-triones on mild steel surface in acidic medium: Experimental and computational approach. Results in Physics, 2018, 8, 657-670.	2.0	38
47	Microwave and ultrasound irradiations for the synthesis of environmentally sustainable corrosion inhibitors: An overview. Sustainable Chemistry and Pharmacy, 2018, 10, 134-147.	1.6	69
48	Sulfur and phosphorus heteroatomâ€containing compounds as corrosion inhibitors: An overview. Heteroatom Chemistry, 2018, 29, .	0.4	116
49	Experimental and quantum chemical studies of functionalized tetrahydropyridines as corrosion inhibitors for mild steel in 1' hydrochloric acid. Results in Physics, 2018, 9, 1481-1493.	2.0	78
50	Chemical, Electrochemical and Computational Studies of Newly Synthesized Novel and Environmental Friendly Heterocyclic Compounds as Corrosion Inhibitors for Mild Steel in Acidic Medium. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	1.2	26
51	A Green and Sustainable Approach for Mild Steel Acidic Corrosion Inhibition Using Leaves Extract: Experimental and DFT Studies. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	1.2	63
52	Synthesis, Characterization, and Corrosion Inhibition Performance of 5-Aminopyrazole Carbonitriles Towards Mild Steel Acidic Corrosion. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	1.2	6