List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Organic corrosion inhibitors for industrial cleaning of ferrous and non-ferrous metals in acidic solutions: A review. Journal of Molecular Liquids, 2018, 256, 565-573.	2.3	379
2	An overview on plant extracts as environmental sustainable and green corrosion inhibitors for metals and alloys in aggressive corrosive media. Journal of Molecular Liquids, 2018, 266, 577-590.	2.3	363
3	Green synthesis of iron nanoparticles using Moringa oleifera extracts and their applications: Removal of nitrate from water and antibacterial activity against Escherichia coli. Journal of Molecular Liquids, 2018, 256, 296-304.	2.3	227
4	Choline based ionic liquids as sustainable corrosion inhibitors on mild steel surface in acidic medium: Gravimetric, electrochemical, surface morphology, DFT and Monte Carlo simulation studies. Applied Surface Science, 2018, 457, 134-149.	3.1	173
5	Experimental and theoretical studies on some selected ionic liquids with different cations/anions as corrosion inhibitors for mild steel in acidic medium. Journal of the Taiwan Institute of Chemical Engineers, 2016, 64, 252-268.	2.7	145
6	Identification and characterization of potassium solubilizing bacteria (KSB) from Indo-Gangetic Plains of India. Biocatalysis and Agricultural Biotechnology, 2016, 7, 202-209.	1.5	131
7	Potassium solubilization by bacterial strain in waste mica. Bangladesh Journal of Botany, 2015, 43, 235-237.	0.2	123
8	Adsorption and Corrosion Inhibition Studies of Some Selected Dyes as Corrosion Inhibitors for Mild Steel in Acidic Medium: Gravimetric, Electrochemical, Quantum Chemical Studies and Synergistic Effect with Iodide Ions. Molecules, 2015, 20, 16004-16029.	1.7	109
9	Excess molar volumes of binary mixtures (an ionic liquid+water): A review. Journal of Chemical Thermodynamics, 2015, 82, 34-46.	1.0	92
10	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
11	Potassium-Solubilizing Microorganism in Evergreen Agriculture: An Overview. , 2016, , 1-20.		87
12	Apparent Molar Volume and Isentropic Compressibility for the Binary Systems {Methyltrioctylammonium Bis(trifluoromethylsulfonyl)imide + Methyl Acetate or Methanol} and (Methanol + Methyl Acetate) at T=298.15, 303.15, 308.15 and 313.15 K and Atmospheric Pressure. Journal of Solution Chemistry, 2011, 40, 1528-1543.	0.6	80
13	Porphyrins as Corrosion Inhibitors for N80 Steel in 3.5% NaCl Solution: Electrochemical, Quantum Chemical, QSAR and Monte Carlo Simulations Studies. Molecules, 2015, 20, 15122-15146.	1.7	76
14	Apparent molar volume and apparent molar isentropic compressibility for the binary systems {methyltrioctylammoniumbis(trifluoromethylsulfonyl)imide+ethyl acetate or ethanol} at different temperatures under atmospheric pressure. Thermochimica Acta, 2013, 566, 77-83.	1.2	66
15	Towards the Soil Sustainability and Potassium-Solubilizing Microorganisms. , 2016, , 255-266.		64
16	Mineral Release Dynamics of Tricalcium Phosphate and Waste Muscovite by Mineral-Solubilizing Rhizobacteria Isolated from Indo-Gangetic Plain of India. Geomicrobiology Journal, 2016, , 1-13.	1.0	64
17	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
18	Can Potassium-Solubilising Bacteria Mitigate the Potassium Problems in India?. , 2016, , 127-136.		61

18 Can Potassium-Solubilising Bacteria Mitigate the Potassium Problems in India?., 2016, , 127-136.

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19	Effect of anion variation on the thermophysical properties of triethylammonium based protic ionic liquids with polar solvent. Thermochimica Acta, 2013, 556, 75-88.	1.2	56
20	Synthesized photo-cross-linking chalcones as novel corrosion inhibitors for mild steel in acidic medium: experimental, quantum chemical and Monte Carlo simulation studies. RSC Advances, 2015, 5, 76675-76688.	1.7	56
21	Density, speed of sound, and refractive index measurements for the binary systems (butanoic) Tj ETQq1 1 0.7843 Thermodynamics, 2013, 57, 203-211.	14 rgBT , 1.0	Overlock 10 55
22	Solubilities of Carbon Dioxide and Oxygen in the Ionic Liquids Methyl Trioctyl Ammonium Bis(trifluoromethylsulfonyl)imide, 1-Butyl-3-Methyl Imidazolium Bis(trifluoromethylsulfonyl)imide, and 1-Butyl-3-Methyl Imidazolium Methyl Sulfate. Journal of Physical Chemistry B, 2015, 119, 1503-1514.	1.2	52
23	Some Phthalocyanine and Naphthalocyanine Derivatives as Corrosion Inhibitors for Aluminium in Acidic Medium: Experimental, Quantum Chemical Calculations, QSAR Studies and Synergistic Effect of Iodide Ions. Molecules, 2015, 20, 15701-15734.	1.7	51
24	Experimental and theoretical studies on inhibition of mild steel corrosion by some synthesized polyurethane tri-block co-polymers. Scientific Reports, 2016, 6, 30937.	1.6	42
25	Polyurethane Based Triblock Copolymers as Corrosion Inhibitors for Mild Steel in 0.5 M H ₂ SO ₄ . Industrial & Engineering Chemistry Research, 2017, 56, 441-456.	1.8	42
26	Molecular interactions between ammonium-based ionic liquids and molecular solvents: current progress and challenges. Physical Chemistry Chemical Physics, 2016, 18, 8278-8326.	1.3	40
27	Volumetric Properties for (Ionic Liquid + Methanol or Ethanol or 1-Propanol + Nitromethane) at 298.15 K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2011, 56, 1682-1686.	1.0	37
28	Effect of temperature on density, sound velocity, and their derived properties for the binary systems glycerol with water or alcohols. Journal of Chemical Thermodynamics, 2017, 109, 124-136.	1.0	37
29	Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-ethyl-3-methylimidazolium 2-(2-methoxyethoxy) ethylsulfate at T=(308.15, 313.15, 323.15 and 333.15)K using gas+liquid chromatography. Journal of Chemical Thermodynamics, 2014, 70, 245-252.	1.0	36
30	Volumetric properties of ternary (IL + 2-propanol or 1-butanol or 2-butanol + ethyl acetate) systems and binary (IL + 2-propanol or 1-butanol or 2-butanol) and (1-butanol or 2-butanol + ethyl acetate) systems. Journal of Chemical Thermodynamics, 2012, 49, 24-38.	1.0	35
31	Anti-corrosion performance of eco-friendly inhibitor (2-aminobenzyl) triphenylphosphonium bromide ionic liquid on mild steel in 0.5 M sulfuric acid. Journal of Molecular Liquids, 2018, 261, 162-173.	2.3	33
32	Optical properties of regiorandom polythiophene/Al2O3 nanocomposites and their application to ammonia gas sensing. Journal of Materials Science: Materials in Electronics, 2015, 26, 7421-7430.	1.1	32
33	Application of Taguchi method to optimize garlic essential oil nanoemulsions. Journal of Molecular Liquids, 2017, 244, 279-284.	2.3	31
34	A comparative study of the stability of stem bromelain based on the variation of anions of imidazolium-based ionic liquids. Journal of Molecular Liquids, 2017, 246, 178-186.	2.3	29
35	Effects of temperature and concentration on interactions in methanol + ethyl acetate and ethanol + methyl acetate or ethyl acetate systems: Insights from apparent molar volume and apparent molar isentropic compressibility study. Thermochimica Acta, 2014, 577, 87-94.	1.2	28
36	Effect of temperature on density, sound velocity, refractive index and their derived properties for the binary systems (heptanoic acid+propanoic or butanoic acids). Journal of Chemical Thermodynamics, 2014, 78, 7-15.	1.0	28

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37	Exploring the Effect of Choline-Based Ionic Liquids on the Stability and Activity of Stem Bromelain. Journal of Physical Chemistry B, 2018, 122, 10435-10444.	1.2	28
38	Density, speed of sound and refractive index of mixtures containing 2-phenoxyethanol with propanol or butanol at various temperatures. Journal of Chemical Thermodynamics, 2019, 128, 394-405.	1.0	26
39	Evaluation of potassium solubilizing rhizobacteria (KSR): enhancing K-bioavailability and optimizing K-fertilization of maize plants under Indo-Gangetic Plains of India. Environmental Science and Pollution Research, 2018, 25, 36412-36424.	2.7	22
40	Protein packaging in ionic liquid mixtures: an ecofriendly approach towards the improved stability of β-lactoglobulin in cholinium-based mixed ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 14811-14821.	1.3	20
41	Volumetric, acoustic and transport properties of mixtures containing dimethyl sulfoxide and some amines or alkanolamines: Measurement and correlation. Journal of Chemical Thermodynamics, 2018, 121, 187-198.	1.0	19
42	Influence of temperature on molecular interactions of imidazolium-based ionic liquids with acetophenone: thermodynamic properties and quantum chemical studies. RSC Advances, 2016, 6, 104708-104723.	1.7	18
43	Screening of environmental friendly ionic liquid as a solvent for the different types of separations problem: Insight from activity coefficients at infinite dilution measurement using (gas + liquid) chromatography technique. Journal of Chemical Thermodynamics, 2016, 92, 35-42.	1.0	18
44	Ionic salt (4-ethoxybenzyl)-triphenylphosphonium bromide as a green corrosion inhibitor on mild steel in acidic medium: experimental and theoretical evaluation. RSC Advances, 2017, 7, 31907-31920.	1.7	18
45	Hydrothermally grown α-MoO3 microfibers for photocatalytic degradation of methylene blue dye. Journal of Molecular Liquids, 2022, 349, 118202.	2.3	17
46	Interactions between main protease of SARS-CoV-2 and testosterone or progesterone using computational approach. Journal of Molecular Structure, 2021, , 131965.	1.8	17
47	Formulation and Optimization of Eudragit RS PO-Tenofovir Nanocarriers Using Box-Behnken Experimental Design. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	16
48	Probing Molecular Interactions between Ammonium-Based Ionic Liquids and <i>N</i> , <i>N</i> -Dimethylacetamide: A Combined FTIR, DLS, and DFT Study. Journal of Physical Chemistry B, 2016, 120, 12584-12595.	1.2	16
49	Ionic liquids-assisted greener preparation of silver nanoparticles. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100581.	3.2	15
50	Solid–liquid equilibria measurements for binary systems comprising (butyric acid+propionic or) Tj ETQq0 0 0 rg Chemical Thermodynamics, 2013, 57, 485-492.	BT /Overlo 1.0	ock 10 Tf 50 1 14
51	Vapor-liquid equilibria, density and sound velocity measurements of (water or methanol or ethanol +) Tj ETQq1 1	0.784314	l rgBT /Overld
52	Investigate the interaction of testosterone/progesterone with ionic liquids on varying the anion to combat COVIDâ€19: Density functional theory calculations and molecular docking approach. Journal of Physical Organic Chemistry, 2021, 34, e4273.	0.9	14
53	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures. Journal of Chemical Thermodynamics, 2017, 113, 291-300.	1.0	13
54	Hydrogen Bonding Interactions of <i>m-</i> Chlorotoluene with 1-Alkanol Analyzed by Thermodynamic, Fourier Transform Infrared Spectroscopy, Density Functional Theory, and Natural Bond Orbital. ACS Omega, 2018, 3, 4679-4687.	1.6	13

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55	Intermolecular interactions between methanol and some sulphonamide drugs in aqueous medium using thermodynamics approach. Journal of Molecular Liquids, 2019, 283, 451-461.	2.3	13
56	Separation of Aromatic Solvents from the Reformate Fraction of an Oil Refining Process using Extraction by a Designed Ionic Liquid. Separation Science and Technology, 2014, 49, 1883-1888.	1.3	10
57	Separation of aromatic solvents from oil refinery reformates by a newly designed ionic liquid using gas chromatography with flame ionization detection. Journal of Separation Science, 2015, 38, 951-957.	1.3	10
58	Liquid–Liquid Equilibria for Mixtures of Hexadecane and Ethanol with Imidazolium-Based Ionic Liquids. Journal of Solution Chemistry, 2015, 44, 593-605.	0.6	10
59	Excess/deviation properties of binary mixtures of 2,5-dimethylfuran with furfuryl alcohol, methyl isobutyl ketone, 1-butanol and 2-butanol at temperature range of (293.15–323.15) K. Oil and Gas Science and Technology, 2018, 73, 64.	1.4	10
60	Effect of temperature on intermolecular interactions between the organic solvents: Insights from density and excess volume. Journal of Chemical Thermodynamics, 2019, 132, 461-469.	1.0	9
61	Adsorption of cysteine on metal(II) octacynaomolybdate(IV) at different pH values: Surface complexes characterization by FT-IR, SEM with EDXA, CHNS and Langmuir isotherm analysis. Journal of Molecular Liquids, 2022, 349, 118197.	2.3	9
62	Assessment of Potential of <i>Croton gratissimus</i> Oil for Macroscale Production of Biodiesel Based on Thermophysical Properties. Energy & Fuels, 2014, 28, 7576-7581.	2.5	8
63	Activity coefficients at infinite dilution of hydrocarbons in glycols: Experimental data and thermodynamic modeling with the GCA-EoS. Journal of Chemical Thermodynamics, 2017, 105, 226-237.	1.0	8
64	Temperature and concentration dependent physicochemical interactions of L-ascorbic acid in aqueous LiCl solution: Experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 623, 126672.	2.3	8
65	Physicochemical Properties of <i>N</i> -Butyl- <i>N</i> -methyl-2-oxopyrrolidonium Bromide and Its Binary Mixtures with Water or Methanol. ACS Sustainable Chemistry and Engineering, 2016, 4, 601-608.	3.2	7
66	Potassium-Solubilizing Bacteria (KSB): A Microbial Tool for K-Solubility, Cycling, and Availability to Plants. , 2019, , 257-265.		7
67	L-amino-acids as immunity booster against COVID-19: DFT, molecular docking and MD simulations. Journal of Molecular Structure, 2022, 1250, 131924.	1.8	7
68	Investigation on the molecular interaction of binary mixtures of acetophenone with carboxylic acids at various temperature: Thermodynamic and spectroscopic aspects. Journal of Chemical Thermodynamics, 2022, 166, 106667.	1.0	4
69	A study of the molecular interactions between ammonium-based ionic liquids and N , N -dimethylacetamide. Journal of Molecular Liquids, 2016, 223, 687-698.	2.3	2
70	Antioxidant properties, computational studies and corrosion inhibition potential of 3-hydroxy-1-(2-hydroxyphenyl)-5-(phenyl)-2,4-pentadien-1-one analogues. Journal of Molecular Liquids, 2016, 223, 819-827.	2.3	2
71	Measurement and Modeling of Thermodynamic Properties for Ternary Mixtures Containing 1-Butyl-3-methylimidazolium-Based Ionic Liquids with Acetophenone and Acetic or Propionic Acid. Journal of Chemical & Engineering Data, 2021, 66, 4368-4383.	1.0	2
72	Morphological and photoluminescence study of chemically synthesized Al2O3 polythiophene		1

composite., 2014, , .

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73	Interaction studies of methyl acetate in aqueous solutions of quinoxaline derivatives: Effect of temperature and concentration. Journal of Molecular Liquids, 2015, 211, 567-576.	2.3	1
74	A DFT and MP2 mechanistic and kinetic study on hypohalogenation reaction of cysteine and N-acetylcysteine in aqueous solution. Journal of Molecular Liquids, 2022, 349, 118191.	2.3	1
75	Synthesis and optical studies of chemically synthesized PPy/Al2O3 nanocomposites. AIP Conference Proceedings, 2016, , .	0.3	0