

Khairulazhar Jumbri

List of Publications by Year in descending order

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57
papers

1,276
citations

393982

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docs citations

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times ranked

1417
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#	ARTICLE	IF	CITATIONS
1	A Critical Review on Metal-Organic Frameworks and Their Composites as Advanced Materials for Adsorption and Photocatalytic Degradation of Emerging Organic Pollutants from Wastewater. <i>Polymers</i> , 2020, 12, 2648.	2.0	92
2	Functionalized mesoporous silica nanoparticles templated by pyridinium ionic liquid for hydrophilic and hydrophobic drug release application. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 289-302.	2.4	76
3	Removal of anthracene in water by MIL-88(Fe), NH ₂ -MIL-88(Fe), and mixed-MIL-88(Fe) metal-organic frameworks. <i>RSC Advances</i> , 2019, 9, 41490-41501.	1.7	70
4	Futuristic advance and perspective of deep eutectic solvent for extractive desulfurization of fuel oil: A review. <i>Journal of Molecular Liquids</i> , 2020, 306, 112870.	2.3	65
5	An insight into structure and stability of DNA in ionic liquids from molecular dynamics simulation and experimental studies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14036-14046.	1.3	63
6	Modeling to enhance attached microalgal biomass growth onto fluidized beds packed in nutrients-rich wastewater whilst simultaneously biofixing CO ₂ into lipid for biodiesel production. <i>Energy Conversion and Management</i> , 2019, 185, 1-10.	4.4	58
7	Palatability of black soldier fly larvae in valorizing mixed waste coconut endosperm and soybean curd residue into larval lipid and protein sources. <i>Journal of Environmental Management</i> , 2019, 231, 129-136.	3.8	56
8	Adsorption of chrysene in aqueous solution onto MIL-88(Fe) and NH ₂ -MIL-88(Fe) metal-organic frameworks: Kinetics, isotherms, thermodynamics and docking simulation studies. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103544.	3.3	52
9	An Overview and Evaluation of Highly Porous Adsorbent Materials for Polycyclic Aromatic Hydrocarbons and Phenols Removal from Wastewater. <i>Water (Switzerland)</i> , 2020, 12, 2921.	1.2	50
10	Experimental and molecular docking model studies for the adsorption of polycyclic aromatic hydrocarbons onto UiO-66(Zr) and NH ₂ -UiO-66(Zr) metal-organic frameworks. <i>Chemical Engineering Science</i> , 2020, 220, 115608.	1.9	48
11	Binding energy and biophysical properties of ionic liquid-DNA complex: Understanding the role of hydrophobic interactions. <i>Journal of Molecular Liquids</i> , 2016, 223, 1197-1203.	2.3	39
12	Synthesis and Physico-Chemical Properties of New Tetraethylammonium-Based Amino Acid Chiral Ionic Liquids. <i>Molecules</i> , 2010, 15, 2388-2397.	1.7	37
13	Tailoring the surface area and the acid-base properties of ZrO ₂ for biodiesel production from <i>Nannochloropsis</i> sp.. <i>Scientific Reports</i> , 2019, 9, 16223.	1.6	37
14	Selective adsorption of dyes and pharmaceuticals from water by UiO metal-organic frameworks: A comprehensive review. <i>Polyhedron</i> , 2021, 210, 115515.	1.0	37
15	Arsenic adsorption mechanism on palm oil fuel ash (POFA) powder suspension. <i>Journal of Hazardous Materials</i> , 2020, 383, 121214.	6.5	35
16	Enzymatic esterification of fatty acid esters by tetraethylammonium amino acid ionic liquids-coated <i>Candida rugosa</i> lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 79, 61-65.	1.8	28
17	Optimization studies and artificial neural network modeling for pyrene adsorption onto UiO-66(Zr) and NH ₂ -UiO-66(Zr) metal organic frameworks. <i>Polyhedron</i> , 2020, 192, 114857.	1.0	25
18	Optimisation and Characterisation of Lipase-Catalysed Synthesis of a Kojic Monooleate Ester in a Solvent-Free System by Response Surface Methodology. <i>PLoS ONE</i> , 2015, 10, e0144664.	1.1	24

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19	Molecular simulation on the stability and adsorption properties of choline-based ionic liquids/IRMOF-1 hybrid composite for selective H ₂ S/CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2020, 399, 123008.	6.5	20
20	Optimization and characterization of magnetite@reduced graphene oxide nanocomposites for demulsification of crude oil in water emulsion. <i>RSC Advances</i> , 2019, 9, 24003-24014.	1.7	19
21	Efficient removal of pharmaceuticals from water using graphene nanoplatelets as adsorbent. <i>Royal Society Open Science</i> , 2021, 8, 201076.	1.1	19
22	Microemulsion Rheological Analysis of Alkaline, Surfactant, and Polymer in Oil-Water Interface. <i>Processes</i> , 2020, 8, 762.	1.3	18
23	Removal of 4-chloro-2-methylphenoxyacetic acid from water by MIL-101(Cr) metal-organic framework: kinetics, isotherms and statistical models. <i>Royal Society Open Science</i> , 2021, 8, 201553.	1.1	18
24	Experimental and Modeling of Dicamba Adsorption in Aqueous Medium Using MIL-101(Cr) Metal-Organic Framework. <i>Processes</i> , 2021, 9, 419.	1.3	18
25	Liquid Polymer Eutectic Mixture for Integrated Extractive-Oxidative Desulfurization of Fuel Oil: An Optimization Study via Response Surface Methodology. <i>Processes</i> , 2020, 8, 848.	1.3	17
26	Biodiesel Production from <i>N. oculata</i> Microalgae Lipid in the Presence of Bi ₂ O ₃ /ZrO ₂ Catalysts. <i>Waste and Biomass Valorization</i> , 2020, 11, 553-564.	1.8	15
27	Adsorption of dicamba and MCPA onto MIL-53(Al) metal-organic framework: response surface methodology and artificial neural network model studies. <i>RSC Advances</i> , 2020, 10, 43213-43224.	1.7	15
28	Mixtures of tetrabutylammonium chloride salt with different glycol structures: Thermal stability and functional groups characterizations. <i>Journal of Molecular Liquids</i> , 2019, 294, 111588.	2.3	14
29	Synthesis, characterisation and antioxidant properties of ferulate-based protic ionic liquids: Experimental and modelling approaches. <i>Journal of Molecular Liquids</i> , 2019, 278, 309-319.	2.3	14
30	Enriched sewage sludge from anaerobic pre-treatment in spurring valorization potential of black soldier fly larvae. <i>Environmental Research</i> , 2022, 212, 113447.	3.7	14
31	Solvation free energies of nucleic acid bases in ionic liquids. <i>Molecular Simulation</i> , 2017, 43, 19-27.	0.9	13
32	Removal of Pyrene from Aqueous Solution Using Fe-based Metal-organic Frameworks. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 549, 012061.	0.2	13
33	Interfacial tension reduction mechanism by alkaline-surfactant-polymer at oil-water interface from experimental and molecular dynamics approaches. <i>Journal of Molecular Liquids</i> , 2022, 356, 119006.	2.3	13
34	A Kinetic Approach of DPPH Free Radical Assay of Ferulate-Based Protic Ionic Liquids (PILs). <i>Molecules</i> , 2018, 23, 3201.	1.7	12
35	Ionic Liquid@Metal-Organic Framework as a Solid Electrolyte in a Lithium-Ion Battery: Current Performance and Perspective at Molecular Level. <i>Nanomaterials</i> , 2022, 12, 1076.	1.9	12
36	Desulfurization Performance of Choline Chloride-Based Deep Eutectic Solvents in the Presence of Graphene Oxide. <i>Environments - MDPI</i> , 2020, 7, 97.	1.5	10

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37	Studies on the supramolecular complex of a guanosine with beta-cyclodextrin and evaluation of its anti-proliferative activity. <i>Carbohydrate Research</i> , 2020, 497, 108138.	1.1	10
38	Choline-Based Ionic Liquids-Incorporated IRMOF-1 for H ₂ S/CH ₄ Capture: Insight from Molecular Dynamics Simulation. <i>Processes</i> , 2020, 8, 412.	1.3	10
39	An insight into the effects of ratios and temperatures on a tetrabutylammonium bromide and ethylene glycol deep eutectic solvent. <i>Journal of Molecular Liquids</i> , 2021, 339, 116709.	2.3	10
40	In silico solvation free energy and thermodynamics properties of H ₂ S in cholinium-based amino acid ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 294, 111641.	2.3	8
41	Fluorescence and Molecular Simulation Studies on the Interaction between Imidazolium-Based Ionic Liquids and Calf Thymus DNA. <i>Processes</i> , 2020, 8, 13.	1.3	8
42	Binding of tetrabutylammonium bromide based deep eutectic solvent to DNA by spectroscopic analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119543.	2.0	6
43	Physio-Chemical Analysis of Amide and Amine Poly(dimethylsiloxane)-Modified Defoamer for Efficient Oil-Water Separation. <i>ACS Omega</i> , 2021, 6, 14806-14818.	1.6	6
44	TetraethylammoniumL-tartrate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o2343-o2343.	0.2	6
45	Review on the Recent Development of Fatty Hydrazide as Corrosion Inhibitor in Acidic Medium: Experimental and Theoretical Approaches. <i>Metals</i> , 2022, 12, 1058.	1.0	6
46	Effect of Ionic Liquids on Oil Palm Biomass Fiber Dissolution. <i>BioResources</i> , 2016, 11, .	0.5	5
47	Phoenix dactylifera L. Seed Pretreatment for Oil Extraction and Optimization Studies for Biodiesel Production Using Ce-Zr/Al-MCM-41 Catalyst. <i>Catalysts</i> , 2020, 10, 764.	1.6	5
48	Effective adsorption of metolachlor herbicide by MIL-53(Al) metal-organic framework: Optimization, validation and molecular docking simulation studies. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100663.	1.7	5
49	Influence of degree of substitution on the host-guest inclusion complex between ionic liquid substituted β-cyclodextrins with 2,4-dichlorophenol: An electrochemical, NMR and molecular docking studies. <i>Journal of Molecular Liquids</i> , 2019, 292, 111334.	2.3	4
50	Design and molecular modelling of phenolic-based protic ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 308, 113062.	2.3	4
51	Oxidative Extractive Desulfurization System for Fuel Oil Using Acidic Eutectic-Based Ionic Liquid. <i>Processes</i> , 2021, 9, 1050.	1.3	4
52	Al-MCM-41 Based Catalysts for Transesterification of Jatropha Oil to Biodiesel: Effect of Ce and Zr. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2018, 97, 200-204.	0.2	3
53	TetraethylammoniumL-malate 1.36-hydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o49-o50.	0.2	2
54	Biophysical properties of DNA in hydrated ionic liquids. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1

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55	An Insight into Solubility of H ₂ S in Choline Based Ionic Liquids from Molecular Dynamics Simulation. Journal of Computational and Theoretical Nanoscience, 2020, 17, 1422-1431.	0.4	1
56	Microwave-assisted chemistry: parametric optimization for catalytic degradation of lignin model compounds in imidazolium-based ILs. Biomass Conversion and Biorefinery, 2023, 13, 1793-1803.	2.9	1
57	Molecular Dynamic Simulation on the Stability of Corporated Metal Organic Framework and Choline Based Ionic Liquids. Journal of Computational and Theoretical Nanoscience, 2020, 17, 1547-1556.	0.4	1