

Khairulazhar Jumbri

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,276
citations

393982

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395343

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62
docs citations

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times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-assisted chemistry: parametric optimization for catalytic degradation of lignin model compounds in imidazolium-based ILs. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1793-1803.	2.9	1
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Oxidative Extractive Desulfurization System for Fuel Oil Using Acidic Eutectic-Based Ionic Liquid. <i>Processes</i> , 2021, 9, 1050.	1.3	4
11	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
12	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
13	Efficient removal of pharmaceuticals from water using graphene nanoplatelets as adsorbent. <i>Royal Society Open Science</i> , 2021, 8, 201076.	1.1	19
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	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
16	Arsenic adsorption mechanism on palm oil fuel ash (POFA) powder suspension. <i>Journal of Hazardous Materials</i> , 2020, 383, 121214.	6.5	35
17	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
18	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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19	Removal of Pyrene from Aqueous Solution Using Fe-based Metal-organic Frameworks. IOP Conference Series: Earth and Environmental Science, 2020, 549, 012061.	0.2	13
20	Studies on the supramolecular complex of a guanosine with beta-cyclodextrin and evaluation of its anti-proliferative activity. Carbohydrate Research, 2020, 497, 108138.	1.1	10
21	Adsorption of dicamba and MCPA onto MIL-53(Al) metal-organic framework: response surface methodology and artificial neural network model studies. RSC Advances, 2020, 10, 43213-43224.	1.7	15
22	A Critical Review on Metal-Organic Frameworks and Their Composites as Advanced Materials for Adsorption and Photocatalytic Degradation of Emerging Organic Pollutants from Wastewater. Polymers, 2020, 12, 2648.	2.0	92
23	Phoenix dactylifera L. Seed Pretreatment for Oil Extraction and Optimization Studies for Biodiesel Production Using Ce-Zr/Al-MCM-41 Catalyst. Catalysts, 2020, 10, 764.	1.6	5
24	Liquid Polymer Eutectic Mixture for Integrated Extractive-Oxidative Desulfurization of Fuel Oil: An Optimization Study via Response Surface Methodology. Processes, 2020, 8, 848.	1.3	17
25	Optimization studies and artificial neural network modeling for pyrene adsorption onto UiO-66(Zr) and NH ₂ -UiO-66(Zr) metal organic frameworks. Polyhedron, 2020, 192, 114857.	1.0	25
26	An Overview and Evaluation of Highly Porous Adsorbent Materials for Polycyclic Aromatic Hydrocarbons and Phenols Removal from Wastewater. Water (Switzerland), 2020, 12, 2921.	1.2	50
27	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. Journal of Hazardous Materials, 2020, 399, 123008.	6.5	20
28	Futuristic advance and perspective of deep eutectic solvent for extractive desulfurization of fuel oil: A review. Journal of Molecular Liquids, 2020, 306, 112870.	2.3	65
29	Fluorescence and Molecular Simulation Studies on the Interaction between Imidazolium-Based Ionic Liquids and Calf Thymus DNA. Processes, 2020, 8, 13.	1.3	8
30	Microemulsion Rheological Analysis of Alkaline, Surfactant, and Polymer in Oil-Water Interface. Processes, 2020, 8, 762.	1.3	18
31	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
32	Functionalized mesoporous silica nanoparticles templated by pyridinium ionic liquid for hydrophilic and hydrophobic drug release application. Journal of Saudi Chemical Society, 2020, 24, 289-302.	2.4	76
33	Design and molecular modelling of phenolic-based protic ionic liquids. Journal of Molecular Liquids, 2020, 308, 113062.	2.3	4
34	Choline-Based Ionic Liquids-Incorporated IRMOF-1 for H ₂ S/CH ₄ Capture: Insight from Molecular Dynamics Simulation. Processes, 2020, 8, 412.	1.3	10
35	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. Chemical Engineering Science, 2020, 220, 115608.	1.9	48
36	Molecular Dynamic Simulation on the Stability of Incorporated Metal Organic Framework and Choline Based Ionic Liquids. Journal of Computational and Theoretical Nanoscience, 2020, 17, 1547-1556.	0.4	1

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37	Optimization and characterization of magnetite@reduced graphene oxide nanocomposites for demulsification of crude oil in water emulsion. RSC Advances, 2019, 9, 24003-24014.	1.7	19
38	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. Journal of Molecular Liquids, 2019, 292, 111334.	2.3	4
39	Mixtures of tetrabutylammonium chloride salt with different glycol structures: Thermal stability and functional groups characterizations. Journal of Molecular Liquids, 2019, 294, 111588.	2.3	14
40	In silico solvation free energy and thermodynamics properties of H ₂ S in cholinium-based amino acid ionic liquids. Journal of Molecular Liquids, 2019, 294, 111641.	2.3	8
41	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. Energy Conversion and Management, 2019, 185, 1-10.	4.4	58
42	Tailoring the surface area and the acid-base properties of ZrO ₂ for biodiesel production from Nannochloropsis sp.. Scientific Reports, 2019, 9, 16223.	1.6	37
43	Removal of anthracene in water by MIL-88(Fe), NH ₂ -MIL-88(Fe), and mixed-MIL-88(Fe) metal-organic frameworks. RSC Advances, 2019, 9, 41490-41501.	1.7	70
44	Synthesis, characterisation and antioxidant properties of ferulate-based protic ionic liquids: Experimental and modelling approaches. Journal of Molecular Liquids, 2019, 278, 309-319.	2.3	14
45	Palatability of black soldier fly larvae in valorizing mixed waste coconut endosperm and soybean curd residue into larval lipid and protein sources. Journal of Environmental Management, 2019, 231, 129-136.	3.8	56
46	Al-MCM-41 Based Catalysts for Transesterification of Jatropha Oil to Biodiesel: Effect of Ce and Zr. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2018, 97, 200-204.	0.2	3
47	A Kinetic Approach of DPPH Free Radical Assay of Ferulate-Based Protic Ionic Liquids (PILs). Molecules, 2018, 23, 3201.	1.7	12
48	Solvation free energies of nucleic acid bases in ionic liquids. Molecular Simulation, 2017, 43, 19-27.	0.9	13
49	Effect of Ionic Liquids on Oil Palm Biomass Fiber Dissolution. BioResources, 2016, 11, .	0.5	5
50	Biophysical properties of DNA in hydrated ionic liquids. AIP Conference Proceedings, 2016, , .	0.3	1
51	Binding energy and biophysical properties of ionic liquid-DNA complex: Understanding the role of hydrophobic interactions. Journal of Molecular Liquids, 2016, 223, 1197-1203.	2.3	39
52	Optimisation and Characterisation of Lipase-Catalysed Synthesis of a Kojic Monooleate Ester in a Solvent-Free System by Response Surface Methodology. PLoS ONE, 2015, 10, e0144664.	1.1	24
53	An insight into structure and stability of DNA in ionic liquids from molecular dynamics simulation and experimental studies. Physical Chemistry Chemical Physics, 2014, 16, 14036-14046.	1.3	63
54	Enzymatic esterification of fatty acid esters by tetraethylammonium amino acid ionic liquids-coated Candida rugosa lipase. Journal of Molecular Catalysis B: Enzymatic, 2012, 79, 61-65.	1.8	28

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55	Synthesis and Physico-Chemical Properties of New Tetraethylammonium-Based Amino Acid Chiral Ionic Liquids. <i>Molecules</i> , 2010, 15, 2388-2397.	1.7	37
56	TetraethylammoniumL-malate 1.36-hydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o49-o50.	0.2	2
57	TetraethylammoniumL-tartrate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o2343-o2343.	0.2	6