

Murugesan Thanabalan

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	2,346 citations	29 h-index	46 g-index
88 ext. papers	2,650 ext. citations	3.4 avg, IF	5.31 L-index

#	Paper	IF	Citations
87	Thermophysical properties of 1-hexyl-3-methyl imidazolium based ionic liquids with tetrafluoroborate, hexafluorophosphate and bis(trifluoromethylsulfonyl)imide anions. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1433-1438	2.9	186
86	Recent Applications of Polymer Blends in Gas Separation Membranes. <i>Chemical Engineering and Technology</i> , 2013 , 36, 1838-1846	2	119
85	Thermodynamic properties of CO ₂ absorption in hydroxyl ammonium ionic liquids at pressures of (100-600) kPa. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 1069-1073	2.9	113
84	Thermophysical properties of 1-alkylpyridinium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 491-495	2.9	85
83	Prediction of the relative permeability of gases in mixed matrix membranes. <i>Journal of Membrane Science</i> , 2011 , 373, 152-159	9.6	83
82	Density, Refractive Index, and Excess Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate with Water and Monoethanolamine. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 120-126	2.8	78
81	Thermophysical properties of hydroxyl ammonium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 517-521	2.9	71
80	Liquid-Liquid Equilibria of Poly(ethylene glycol) 2000 + Sodium Citrate + Water at (25, 30, 35, 40, and 45) °C. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1392-1395	2.8	67
79	Potential of Chitosan and its derivatives for controlled drug release applications A review. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 49, 642-659	4.5	64
78	Solubilities of Carbon Dioxide and Densities of Aqueous Sodium Glycinate Solutions before and after CO ₂ Absorption. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 144-147	2.8	60
77	Viscosity, Refractive Index, Surface Tension, and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2226-2229	2.8	60
76	Thermophysical Properties of 1-Propyronitrile-3-alkylimidazolium Bromide Ionic Liquids at Temperatures from (293.15 to 353.15) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3886-3890	2.8	52
75	Densities, refractive indices and excess molar volumes for binary mixtures of protic ionic liquids with methanol at T=293.15 to 313.15K. <i>Journal of Molecular Liquids</i> , 2011 , 159, 211-219	6	50
74	Thermophysical Properties of Aqueous Piperazine and Aqueous (N-Methyldiethanolamine + Piperazine) Solutions at Temperatures (298.15 to 338.15) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2317-2321	2.8	50
73	The chlor-alkali process: Work in Progress. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 225-234	4.3	49
72	Thermophysical properties for the binary mixtures of 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide [hmim][Tf ₂ N]+N-methyldiethanolamine (MDEA) at temperatures (303.15 to 323.15) K. <i>Journal of Molecular Liquids</i> , 2012 , 169, 95-101	6	49
71	A comprehensive review on the recent advances on the petroleum asphaltene aggregation. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 176, 249-268	4.4	49

70	Liquid-Liquid Equilibrium of Poly(ethylene glycol) 6000 + Triammonium Citrate + Water Systems at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1094-1097	2.8	44
69	Prediction of liquid-Liquid equilibria for PEG 2000-Sodium citrate based aqueous two-phase systems. <i>Fluid Phase Equilibria</i> , 2006 , 244, 52-61	2.5	44
68	Enhanced lignin extraction from different species of oil palm biomass: Kinetics and optimization of extraction conditions. <i>Industrial Crops and Products</i> , 2018 , 116, 122-136	5.9	42
67	Density and Excess Molar Volume of the Protic Ionic Liquid Bis(2-hydroxyethyl)ammonium Acetate with Alcohols. <i>Journal of Solution Chemistry</i> , 2011 , 40, 470-480	1.8	41
66	Liquid-Liquid Equilibrium of Poly(ethylene glycol) 2000 + Potassium Citrate + Water at (25, 35, and 45) °C. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 56-59	2.8	41
65	Partition of tannery wastewater proteins in aqueous two-phase poly (ethylene glycol)-magnesium sulfate systems: Effects of molecular weights and pH. <i>Chemical Engineering Science</i> , 2007 , 62, 969-978	4.4	41
64	Feed spacer mesh angle: 3D modeling, simulation and optimization based on unsteady hydrodynamic in spiral wound membrane channel. <i>Journal of Membrane Science</i> , 2009 , 343, 16-33	9.6	35
63	Liquid-Liquid Equilibrium of Poly(ethylene glycol) 4000 + Diammonium Hydrogen Phosphate + Water at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1574-1578	2.8	35
62	Phase Compositions, Molar Mass, and Temperature Effect on Densities, Viscosities, and Liquid-Liquid Equilibrium of Polyethylene Glycol and Salt-Based Aqueous Two-Phase Systems. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1359-1366	2.8	33
61	A review on adsorptive removal of oil pollutants (BTEX) from wastewater using carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019 , 277, 1005-1025	6	33
60	Thermophysical properties of 1-hexyl-3-methylimidazolium tetrafluoroborate [hmim][BF ₄] + N-methyldiethanolamine (MDEA) at temperatures (303.15 to 323.15) K. <i>Journal of Molecular Liquids</i> , 2013 , 177, 54-59	6	32
59	Physicochemical Properties of Binary Mixtures of the Protic Ionic Liquid Bis(2-hydroxyethyl)methylammonium Formate with Methanol, Ethanol, and 1-Propanol. <i>Journal of Solution Chemistry</i> , 2011 , 40, 818-831	1.8	30
58	Experiment and Correlation of Liquid-Liquid Equilibria of an Aqueous Salt Polymer System Containing PEG6000 + Sodium Citrate. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1186-1188	2.8	29
57	Phase Equilibrium Compositions, Densities, and Viscosities of Aqueous Two-Phase Poly(ethylene glycol) + Poly(acrylic acid) System at Various Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1246-1249	2.8	28
56	Densities, Viscosities, and Refractive Indices of 1-Hexyl-3-propanenitrile Imidazolium Ionic Liquids Incorporated with Sulfonate-Based Anions. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2343-2348	2.8	27
55	Densities and Viscosities of Polyethylene Glycol 6000 + Triammonium Citrate + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 3291-3295	2.8	27
54	Densities and Excess Molar Volumes of Binary Mixtures of Bis(2-hydroxyethyl)ammonium Acetate + Water and Monoethanolamine + Bis(2-hydroxyethyl)ammonium Acetate at Temperatures from (303.15 to 353.15) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5910-5913	2.8	26
53	Mass transfer studies on the biodegradation of phenols in up-flow packed bed reactors. <i>Journal of Hazardous Materials</i> , 2002 , 89, 287-301	12.8	24

52	Selective adsorption of CO ₂ on a regenerable amine-bentonite hybrid adsorbent. <i>Applied Clay Science</i> , 2015 , 107, 213-219	5.2	22
51	Effect of sulfonate-based anions on the physicochemical properties of 1-alkyl-3-propanenitrile imidazolium ionic liquids. <i>New Journal of Chemistry</i> , 2011 , 35, 1111	3.6	21
50	Thermophysical properties of 1-propyronitrile-3-hexylimidazolium bromide+methanol at temperatures (293.15 to 323.15)K. <i>Journal of Molecular Liquids</i> , 2011 , 158, 101-104	6	21
49	Impact of surface modification on adsorptive removal of BTX onto activated carbon. <i>Journal of Molecular Liquids</i> , 2019 , 280, 238-251	6	21
48	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2217-2221	2.8	20
47	Investigation of green functionalization of multiwall carbon nanotubes and its application in adsorption of benzene, toluene & p-xylene from aqueous solution. <i>Journal of Cleaner Production</i> , 2019 , 221, 323-338	10.3	19
46	Enhanced photocatalytic performance of visible light driven TiO ₂ /g-C ₃ N ₄ for degradation of diclofenac in aqueous solution. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101412	7	19
45	An Empirical Model for the Estimation of Moisture Ratio During Microwave Drying of Plaster of Paris. <i>Drying Technology</i> , 2008 , 26, 963-978	2.6	18
44	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. <i>Fuel</i> , 2021 , 293, 120485	7.1	18
43	Effective carbonaceous desiccated coconut waste adsorbent for application of heavy metal uptakes by adsorption: Equilibrium, kinetic and thermodynamics analysis. <i>Biomass and Bioenergy</i> , 2020 , 142, 105805	5.3	17
42	Experimental investigation on the effect of wastewater matrix on oxytetracycline mineralization using UV/H ₂ O ₂ system. <i>International Journal of Environmental Science and Technology</i> , 2017 , 14, 1225-1233	2.3	16
41	Optimization of process variables for a biosorption of nickel(II) using response surface method. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 364-370	2.8	16
40	Characterization and Process Optimization of Microwave Drying of Plaster of Paris. <i>Drying Technology</i> , 2008 , 26, 1484-1496	2.6	15
39	Investigating the solubility of petroleum asphaltene in ionic liquids and their interaction using COSMO-RS. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 194-203	6.3	14
38	Catalytic hydrogen adsorption of nano-crystalline hydrotalcite derived mixed oxides. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2639-2647	5.5	13
37	Polyethersulfone (PES) Membranes for CO ₂ /CH ₄ Separation: Effect of Polymer Blending. <i>Applied Mechanics and Materials</i> , 2014 , 625, 172-175	0.3	13
36	Effect of Feed Spacer Mesh Length Ratio on Unsteady Hydrodynamics in 2D Spiral Wound Membrane (SWM) Channel. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5834-5845	3.9	12
35	Densities and Viscosities of Poly(ethylene glycol) 4000 + Diammonium Hydrogen Phosphate + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1100-1106	2.8	12

34	Preparation, characterization and stability evaluation of ionic liquid blended chitosan tripolyphosphate microparticles. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 50, 217-225	4.5	11
33	Surface modification and characterization of carbonaceous adsorbents for the efficient removal of oil pollutants. <i>Journal of Hazardous Materials</i> , 2019 , 379, 120673	12.8	11
32	Prediction of Continuous Phase Axial Mixing in Rotating Disc Contactors. <i>Journal of Chemical Engineering of Japan</i> , 2004 , 37, 1293-1302	0.8	11
31	Bioethanol Production from Musambi Peel by Acid Catalyzed Steam Pretreatment and Enzymatic Saccharification: Optimization of Delignification Using Taguchi Design. <i>Waste and Biomass Valorization</i> , 2020 , 11, 2631-2643	3.2	11
30	Characterization of nano-crystalline Mg _{0.9} Al hydrotalcite derived mixed oxides as hydrogen adsorbent. <i>Materials Chemistry and Physics</i> , 2013 , 142, 213-219	4.4	9
29	Densities, refractive index and excess properties of bis(2-hydroxyethyl)ammonium acetate ([bheaa])+monoethanolamine+water system at temperatures from 303.15 to 353.15K. <i>Journal of Molecular Liquids</i> , 2013 , 181, 121-126	6	9
28	Critical Impeller Speed for Solid Suspension in Mechanically Agitated Contactors.. <i>Journal of Chemical Engineering of Japan</i> , 2001 , 34, 423-429	0.8	8
27	Optimization of Oxytetracycline Degradation Inside UV/H ₂ O ₂ Reactor Using Box-Behnken Experimental Design. <i>Journal of Applied Sciences</i> , 2012 , 12, 1154-1159	0.3	8
26	Carbon Dioxide Retention on Bentonite Clay Adsorbents Modified by Mono-, Di- and Triethanolamine Compounds. <i>Advanced Materials Research</i> , 2014 , 917, 115-122	0.5	7
25	Densities, viscosities and refractive indices of 1-alkyl-3-propanenitrile imidazolium chloride ionic liquids. <i>Physics and Chemistry of Liquids</i> , 2012 , 50, 152-160	1.5	7
24	Solubility of CO ₂ in 20 Wt. % Aqueous Solution of Piperazine. <i>Procedia Engineering</i> , 2016 , 148, 1377-1379		5
23	Liquid-Liquid equilibrium of aqueous two-phase system (PEG 2000-Sodium Citrate-Water) using potential difference as a key tool. <i>Physics and Chemistry of Liquids</i> , 2014 , 52, 26-36	1.5	5
22	Liquid Holdup and Interfacial Area in Cocurrent Gas-Liquid Upflow through Packed Beds. <i>Journal of Chemical Engineering of Japan</i> , 2005 , 38, 229-242	0.8	5
21	Volumetric Properties and Refractive Indices for Binary Mixtures of 1-Propyronitrile-3-hexylimidazolium Bromide + Ethanol at Temperatures from 293.15 to 323.15 K. <i>Journal of Solution Chemistry</i> , 2012 , 41, 100-111	1.8	4
20	Heat Capacity of Sodium Aminoacetate Solutions before and after CO ₂ Absorption. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 547-550	2.8	4
19	Drag reduction in co-current down flow packed column using xanthan gum. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 1205-1212	2.8	4
18	Adsorption of Chlorate from Chlor-Alkali Plant Purged Brine Stream. <i>Applied Mechanics and Materials</i> , 2014 , 625, 885-888	0.3	3
17	Phase Diagram of an Aqueous Salt-Polymer System Composed of Poly Ethylene Glycol 4000 + Na ₃ C ₆ H ₅ O ₇ + H ₂ O. <i>Applied Mechanics and Materials</i> , 2014 , 625, 574-577	0.3	3

16	Physical and excess properties of ternary mixtures of 1-butyl-3-methylimidazolium tetrafluoroborate + monoethanolamine + water at temperature from (303.15 to 353.15) K. <i>Journal of Molecular Liquids</i> , 2014 , 190, 23-29	6	3
15	Pore model for the fibrous collagen matrix in animal skins. <i>Chemical Engineering Science</i> , 1995 , 50, 890-894	1.4	3
14	Production of bioethanol from sweet lime peel via a statistically optimized simultaneous saccharification and fermentation process using isolated enzymes. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-9	1.6	2
13	Antioxidant Activity and HPLC Analysis of Gallic Acid Phenolic Compound from Nephelium Lappaceum Leaves. <i>Applied Mechanics and Materials</i> , 2014 , 625, 15-18	0.3	2
12	Interfacial area and mass transfer coefficients in liquid-gas ejectors. <i>Theoretical Foundations of Chemical Engineering</i> , 2011 , 45, 818-823	0.9	2
11	UV/H ₂ O ₂ Process for Removal of Total Organic Carbon from Refinery Effluent: Screening of Influence Factors Using Response Surface Methodology. <i>Advanced Materials Research</i> , 2014 , 917, 168-177	1.5	1
10	Biosorption of heavy metals by potassium hydrogen phosphate and sodium oxalate modified lignocellulosic waste 2011 ,		1
9	Thermophysical Properties of Trihexyltetradecyl Phosphonium Octylsulfosuccinate Ionic Liquid. <i>Journal of Applied Sciences</i> , 2011 , 11, 1396-1400	0.3	1
8	Oxytetracycline Mineralization inside a UV/H ₂ O ₂ System of Advanced Oxidation Processes: Inorganic By-Product. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021 , 16, 302-309	1.7	1
7	Synthesis, physiochemical properties, colloidal stability evaluation and potential of ionic liquid modified CS-TTP MPs in controlling the release rate of insulin. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 64, 102575	4.5	1
6	Conversion of Lignocellulose into Fermentable Sugars Using Solid Acid Catalysis [A Review]. <i>Applied Mechanics and Materials</i> , 2014 , 625, 341-344	0.3	0
5	Hydrogen Storage Investigation of Fixed Bed of Nanocrystalline Mg-Ni-Cr Mixed Oxides. <i>Advanced Materials Research</i> , 2013 , 701, 179-183	0.5	0
4	Degradation Kinetic of Oxytetracycline Antibiotic inside UV Reactor in the Presence of H ₂ O ₂ . <i>Applied Mechanics and Materials</i> , 2014 , 625, 901-906	0.3	
3	Effect of Aluminium Sol on Silica Nanoparticles Texture and Properties. <i>Advanced Materials Research</i> , 2014 , 917, 56-60	0.5	
2	Preparation and Characterization of Hydrophobic Silica Zirconium Nanoparticles. <i>Applied Mechanics and Materials</i> , 2014 , 625, 503-508	0.3	
1	Slip Velocity and Gas Holdup in a Gas-Liquid Co-current Upflow through a Packed Bed. <i>Journal of Chemical Engineering of Japan</i> , 2005 , 38, 243-252	0.8	