

# Marcos Larriba

## List of Publications by Citations

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91  
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43  
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94  
ext. papers

2,833  
ext. citations

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5.36  
L-index

#	Paper	IF	Citations
91	Thermal stability of choline chloride deep eutectic solvents by TGA/FTIR-ATR analysis. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 260, 37-43	6	143
90	Liquid-Liquid Extraction of Toluene from Heptane Using [emim][DCA], [bmim][DCA], and [emim][TCM] Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 2714-2720	3.9	138
89	Thermal Properties of Cyano-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 2187-2193	2.8	111
88	Liquid-Liquid Extraction of Toluene from Heptane Using 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 113-118	2.8	69
87	Selective extraction of toluene from n-heptane using [emim][SCN] and [bmim][SCN] ionic liquids as solvents. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 79, 266-271	2.9	64
86	Physical Properties of N-Butylpyridinium Tetrafluoroborate and N-Butylpyridinium Bis(trifluoromethylsulfonyl)imide Binary Ionic Liquid Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 1318-1325	2.8	63
85	Absorption refrigeration cycles based on ionic liquids: Refrigerant/absorbent selection by thermodynamic and process analysis. <i>Applied Energy</i> , <b>2018</b> , 213, 179-194	10.7	61
84	Liquid-Liquid extraction of toluene from n-heptane using binary mixtures of N-butylpyridinium tetrafluoroborate and N-butylpyridinium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Chemical Engineering Journal</i> , <b>2012</b> , 180, 210-215	14.7	53
83	Separation of toluene from n-heptane, 2,3-dimethylpentane, and cyclohexane using binary mixtures of [4empy][Tf2N] and [emim][DCA] ionic liquids as extraction solvents. <i>Separation and Purification Technology</i> , <b>2013</b> , 120, 392-401	8.3	52
82	Liquid-Liquid extraction of toluene from n-heptane by {[emim][TCM]+[emim][DCA]} binary ionic liquid mixtures. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 364, 48-54	2.5	51
81	Choline Chloride-Based Deep Eutectic Solvents in the Dearomatization of Gasolines. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1039-1047	8.3	50
80	Enterprise Ionic Liquids Database (ILUAM) for Use in Aspen ONE Programs Suite with COSMO-Based Property Methods. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 980-989	3.9	49
79	Physical Properties of Binary and Ternary Mixtures of 2-Propanol, Water, and 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 1165-1173	2.8	48
78	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[4empy][NTf2] + [emim][DCA]} ionic liquid mixture. <i>Separation and Purification Technology</i> , <b>2018</b> , 190, 211-227	8.3	45
77	Dicyanamide-based ionic liquids in the liquid-Liquid extraction of aromatics from alkanes: Experimental evaluation and computational predictions. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 109, 561-572	5.5	44
76	Liquid-Liquid Extraction of BTEX from Reformer Gasoline Using Binary Mixtures of [4empy][Tf2N] and [emim][DCA] Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 6666-6676	4.1	43
75	Vapor-Liquid equilibria of {n-heptane + toluene + [emim][DCA]} system by headspace gas chromatography. <i>Fluid Phase Equilibria</i> , <b>2015</b> , 387, 209-216	2.5	42

74	Thermophysical Properties of 1-Ethyl-3-methylimidazolium 1,1,2,2-Tetrafluoroethanesulfonate and 1-Ethyl-3-methylimidazolium Ethylsulfate Ionic Liquids as a Function of Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3589-3597	2.8	41
73	Separation of aromatics from n-alkanes using tricyanomethanide-based ionic liquids: Liquid-liquid extraction, vapor-liquid separation, and thermophysical characterization. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 880-889	6	41
72	Thermal stability, specific heats, and surface tensions of ([emim][DCA]+[4empy][Tf2N]) ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 76, 152-160	2.9	37
71	Demonstrating the key role of kinetics over thermodynamics in the selection of ionic liquids for CO <sub>2</sub> physical absorption. <i>Separation and Purification Technology</i> , <b>2019</b> , 213, 578-586	8.3	36
70	Design of the recovery section of the extracted aromatics in the separation of BTEX from naphtha feed to ethylene crackers using [4empy][Tf 2 N] and [emim][DCA] mixed ionic liquids as solvent. <i>Separation and Purification Technology</i> , <b>2017</b> , 180, 149-156	8.3	34
69	Using COSMO-RS to design choline chloride pharmaceutical eutectic solvents. <i>Fluid Phase Equilibria</i> , <b>2019</b> , 497, 71-78	2.5	33
68	From kinetics to equilibrium control in CO <sub>2</sub> capture columns using Encapsulated Ionic Liquids (ENILs). <i>Chemical Engineering Journal</i> , <b>2018</b> , 348, 661-668	14.7	33
67	Physical Characterization of an Aromatic Extraction Solvent Formed by [bpy][BF <sub>4</sub> ] and [4bmpy][Tf <sub>2</sub> N] Mixed Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 1496-1504	2.8	33
66	Selective recovery of aliphatics from aromatics in the presence of the {[4empy][Tf 2 N] + [emim][DCA]} ionic liquid mixture. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 96, 134-142	2.9	31
65	Separation of toluene from n-heptane by liquid-liquid extraction using binary mixtures of [bpy][BF <sub>4</sub> ] and [4bmpy][Tf <sub>2</sub> N] ionic liquids as solvent. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 53, 119-124	2.9	31
64	Separation of BTEX from a naphtha feed to ethylene crackers using a binary mixture of [4empy][Tf <sub>2</sub> N] and [emim][DCA] ionic liquids. <i>Separation and Purification Technology</i> , <b>2015</b> , 144, 54-62	8.3	30
63	Alkylsulfate-based ionic liquids in the liquid-liquid extraction of aromatic hydrocarbons. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 45, 68-74	2.9	30
62	Dearomatization of pyrolysis gasolines from mild and severe cracking by liquid-liquid extraction using a binary mixture of [4empy][Tf <sub>2</sub> N] and [emim][DCA] ionic liquids. <i>Fuel Processing Technology</i> , <b>2015</b> , 137, 269-282	7.2	28
61	Mixing and decomposition behavior of {[4bmpy][Tf <sub>2</sub> N]+[emim][EtSO <sub>4</sub> ]} and {[4bmpy][Tf <sub>2</sub> N]+[emim][TFES]} ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 82, 58-73 <sup>9</sup>	2.9	28
60	Sulfonate-Based Ionic Liquids in the Liquid-liquid Extraction of Aromatic Hydrocarbons. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3188-3193	2.8	28
59	1-Alkyl-2,3-dimethylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids for the Liquid-liquid Extraction of Toluene from Heptane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3468-3474	2.8	28
58	Enhanced separation of benzene and cyclohexane by homogeneous extractive distillation using ionic liquids as entrainers. <i>Separation and Purification Technology</i> , <b>2020</b> , 240, 116583	8.3	27
57	Experimental screening towards developing ionic liquid-based extractive distillation in the dearomatization of refinery streams. <i>Separation and Purification Technology</i> , <b>2018</b> , 201, 268-275	8.3	27

56	Thermal stability and specific heats of {[emim][DCA]+[emim][TCM]} mixed ionic liquids. <i>Thermochimica Acta</i> , <b>2014</b> , 588, 22-27	2.9	27
55	Liquid-Liquid Extraction of Toluene from n-Alkanes using {[4empy][Tf2N] + [emim][DCA]} Ionic Liquid Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 1692-1699	2.8	26
54	Recovery of tyrosol from aqueous streams using hydrophobic ionic liquids: a first step towards developing sustainable processes for olive mill wastewater (OMW) management. <i>RSC Advances</i> , <b>2016</b> , 6, 18751-18762	3.7	25
53	Extraction of aromatic hydrocarbons from pyrolysis gasoline using tetrathiocyanatocobaltate-based ionic liquids: Experimental study and simulation. <i>Fuel Processing Technology</i> , <b>2017</b> , 159, 96-110	7.2	24
52	Enhanced removal of the endocrine disruptor compound Bisphenol A by adsorption onto green-carbon materials. Effect of real effluents on the adsorption process. <i>Journal of Environmental Management</i> , <b>2020</b> , 266, 110604	7.9	24
51	Imidazolium and pyridinium-based ionic liquids for the cyclohexane/cyclohexene separation by liquid-liquid extraction. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 131, 340-346	2.9	24
50	Toluene/n-Heptane Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids: Experimental and CPA EoS Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14242-14253	3.9	24
49	(Liquid+liquid) equilibrium for the ternary systems {heptane+toluene+1-allyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide} and {heptane+toluene+1-methyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide} ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2011</b> , 43, 1641-1645	2.9	23
48	Cyclohexane/cyclohexene separation by extractive distillation with cyano-based ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 289, 111120	6	22
47	Use of selective ionic liquids and ionic liquid/salt mixtures as entrainer in a (vapor + liquid) system to separate n-heptane from toluene. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 91, 156-164	2.9	20
46	Extraction of benzene, ethylbenzene, and xylenes from n-heptane using binary mixtures of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 380, 1-10	2.5	20
45	Extraction and recovery process to selectively separate aromatics from naphtha feed to ethylene crackers using 1-ethyl-3-methylimidazolium thiocyanate ionic liquid. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 120, 102-112	5.5	18
44	Sustainable Recovery of Volatile Fatty Acids from Aqueous Solutions Using Terpenoids and Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16786-16794	8.3	18
43	Liquid-Liquid extraction of toluene from heptane by {[4bmpy][Tf2N]+[emim][CHF2CF2SO3]} ionic liquid mixed solvents. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 337, 47-52	2.5	18
42	CO2 conversion to cyclic carbonates catalyzed by ionic liquids with aprotic heterocyclic anions: DFT calculations and operando FTIR analysis. <i>Journal of CO2 Utilization</i> , <b>2018</b> , 28, 66-72	7.6	18
41	Design of the Hydrocarbon Recovery Section from the Extract Stream of the Aromatic Separation from Reformer and Pyrolysis Gasolines Using a Binary Mixture of [4empy][Tf2N] + [emim][DCA] Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 1035-1043	4.1	17
40	Dearomatization of pyrolysis gasoline by extractive distillation with 1-ethyl-3-methylimidazolium tricyanomethanide. <i>Fuel Processing Technology</i> , <b>2019</b> , 195, 106156	7.2	16
39	Acetylene absorption by ionic liquids: A multiscale analysis based on molecular and process simulation. <i>Separation and Purification Technology</i> , <b>2018</b> , 204, 38-48	8.3	15

38	A comparative study of pure ionic liquids and their mixtures as potential mass agents in the separation of hydrocarbons. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 222, 118-124	6	15
37	Modeling and simulation of the efficient separation of methane/nitrogen mixtures with [Ni <sub>3</sub> (HCOO) <sub>6</sub> ] MOF by PSA. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 1007-1018	14.7	15
36	Carbon-encapsulated iron nanoparticles as reusable adsorbents for micropollutants removal from water. <i>Separation and Purification Technology</i> , <b>2021</b> , 257, 117974	8.3	15
35	Magnetic FeO/multi-walled carbon nanotubes materials for a highly efficient depletion of diclofenac by catalytic wet peroxideoxidation. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 22372-22388	5.1	14
34	Optimization Parameters, Kinetics and Mechanism of Naproxen Removal by Catalytic Wet Peroxide Oxidation with a Hybrid Iron-Based Magnetic Catalyst. <i>Catalysts</i> , <b>2019</b> , 9, 287	4	14
33	Vapor-liquid equilibria for n-heptane+[(benzene, toluene, p-xylene, or ethylbenzene)+[4empy][Tf2N] (0.3)+[emim][DCA] (0.7)} binary ionic liquid mixture. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 417, 41-49	2.5	14
32	Separation of benzene from methylcycloalkanes by extractive distillation with cyano-based ionic liquids: Experimental and CPA EoS modelling. <i>Separation and Purification Technology</i> , <b>2020</b> , 234, 116128	8.3	13
31	Separation of phenols from aqueous streams using terpenoids and hydrophobic eutectic solvents. <i>Separation and Purification Technology</i> , <b>2020</b> , 251, 117379	8.3	12
30	Thermal stability and specific heats of {[bpy][BF <sub>4</sub> ] + [bpy][Tf <sub>2</sub> N]} and {[bpy][BF <sub>4</sub> ] + [4bmpy][Tf <sub>2</sub> N]} mixed ionic liquid solvents. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 119, 1235-1243	4.1	11
29	A Review of the Use of Eutectic Solvents, Terpenes and Terpenoids in Liquid-Liquid Extraction Processes. <i>Processes</i> , <b>2020</b> , 8, 1220	2.9	11
28	Effective adsorption of the endocrine disruptor compound bisphenol a from water on surface-modified carbon materials. <i>Applied Surface Science</i> , <b>2021</b> , 552, 149513	6.7	11
27	Novel Process to Reduce Benzene, Thiophene, and Pyrrole in Gasoline Based on [4bmpy][TCM] Ionic Liquid. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5650-5658	4.1	10
26	Vapor-Liquid Equilibria for (n-Hexane, n-Octane, Cyclohexane, or 2,3-Dimethylpentane) + Toluene + {[4empy][Tf <sub>2</sub> N] (0.3) + [emim][DCA] (0.7)} Mixed Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2440-2449	2.8	10
25	Dearomatization of pyrolysis gasoline with an ionic liquid mixture: Experimental study and process simulation. <i>AIChE Journal</i> , <b>2017</b> , 63, 4054-4065	3.6	9
24	Vapor-Liquid Equilibria of n-Heptane + Toluene +1-Ethyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 458-465	2.8	9
23	Separation of Toluene and Heptane by Liquid-Liquid Extraction Using Binary Mixtures of the Ionic Liquids 1-Butyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide and 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2472-2478	2.8	9
22	New insights from modelling and estimation of mass transfer parameters in fixed-bed adsorption of Bisphenol A onto carbon materials. <i>Journal of Contaminant Hydrology</i> , <b>2020</b> , 228, 103566	3.9	9
21	On the volatility of aromatic hydrocarbons in ionic liquids: Vapor-liquid equilibrium measurements and theoretical analysis. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 250, 9-18	6	9

20	Toward Modeling the Aromatic/Aliphatic Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids Using CPA EoS. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 19681-19692	3.9	7
19	Recovery and purification of acetic acid from aqueous mixtures by simulated moving bed adsorption with methanol and water as desorbents. <i>Separation and Purification Technology</i> , <b>2020</b> , 237, 116368	8.3	6
18	Efficient recovery of syngas from dry methane reforming product by a dual pressure swing adsorption process. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 17522-17533	6.7	6
17	Separation of the propane propylene mixture with high recovery by a dual PSA process. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 136, 106717	4	5
16	Lab at home: 3D printed and low-cost experiments for thermal engineering and separation processes in COVID-19 time. <i>Education for Chemical Engineers</i> , <b>2021</b> , 36, 24-37	2.4	5
15	Citric Acid Purification by Simulated Moving Bed Adsorption with Methanol as Desorbent. <i>Separation Science and Technology</i> , <b>2019</b> , 54, 930-942	2.5	5
14	Sustainable Production of Furfural in Biphasic Reactors Using Terpenoids and Hydrophobic Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10266-10275	8.3	5
13	. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15058-15068	3.9	4
12	Effective removal of naproxen from aqueous solutions by CWAO process using noble metals supported on carbon nanospheres catalysts. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118084	8.3	4
11	Application of Sludge-Based Activated Carbons for the Effective Adsorption of Neonicotinoid Pesticides. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3087	2.6	3
10	Naproxen removal by CWPO with Fe <sub>3</sub> O <sub>4</sub> /multi-walled carbon nanotubes in a fixed-bed reactor. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105110	6.8	3
9	Extractive removal and recovery of bisphenol A from aqueous solutions using terpenoids and hydrophobic eutectic solvents. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106128	6.8	3
8	Comparative simulation study of methanol production by CO <sub>2</sub> hydrogenation with 3A, 4A and 5A zeolites as adsorbents in a PSA reactor. <i>Separation and Purification Technology</i> , <b>2021</b> , 262, 118292	8.3	1
7	Extraction of antibiotics identified in the EU Watch List 2020 from hospital wastewater using hydrophobic eutectic solvents and terpenoids. <i>Separation and Purification Technology</i> , <b>2022</b> , 282, 120117	8.3	0
6	Tetrathiocyanatocobaltate and bis(trifluoromethylsulfonyl)imide-based ionic liquids as mass agents in the separation of cyclohexane and cyclohexene mixtures by homogeneous extractive distillation. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 157, 106403	2.9	0
5	Insights of emerging contaminants removal in real water matrices by CWPO using a magnetic catalyst. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106321	6.8	0
4	Enhanced removal of neonicotinoid pesticides present in the Decision 2018/840/EU by new sewage sludge-based carbon materials.. <i>Journal of Environmental Management</i> , <b>2022</b> , 313, 115020	7.9	0
3	Fine-tune simultaneous dearomatization, desulfurization and denitrogenation of liquid fuels with CO <sub>2</sub> -derived cyclic carbonates. <i>Fuel</i> , <b>2022</b> , 321, 124005	7.1	0

- 2 Recovery of a Succinic, Formic, and Acetic Acid Mixture from a Model Fermentation Broth by Simulated Moving Bed Adsorption with Methanol as a Desorbent. *Industrial & Engineering Chemistry Research*, **2022**, 61, 672-683 3.9
- 1 Activated carbons derived from biomass for the removal by adsorption of several pesticides from water **2022**, 565-583