

Pablo Navarro

List of Publications by Year in Descending Order

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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.

71
papers

1,892
citations

27
h-index

41
g-index

73
ext. papers

2,285
ext. citations

5.2
avg, IF

5.15
L-index

#	Paper	IF	Citations
71	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> , 2022 , 282, 120117	8.3	0
70	Fine-tune simultaneous dearomatization, desulfurization and denitrogenation of liquid fuels with CO ₂ -derived cyclic carbonates. <i>Fuel</i> , 2022 , 321, 124005	7.1	0
69	Universal and low energy-demanding platform to produce propylene carbonate from CO ₂ using hydrophilic ionic liquids. <i>Separation and Purification Technology</i> , 2022 , 121273	8.3	1
68	Assessment of bio-ionic liquids as promising solvents in industrial separation processes: Computational screening using COSMO-RS method. <i>Fluid Phase Equilibria</i> , 2022 , 560, 113495	2.5	0
67	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> , 2021 , 157, 106403	2.9	0
66	Understanding the CO ₂ valorization to propylene carbonate catalyzed by 1-butyl-3-methylimidazolium amino acid ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 324, 114782	6	7
65	Multiscale evaluation of CO ₂ -derived cyclic carbonates to separate hydrocarbons: Drafting new competitive processes. <i>Fuel Processing Technology</i> , 2021 , 212, 106639	7.2	6
64	Sustainable Production of Furfural in Biphasic Reactors Using Terpenoids and Hydrophobic Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10266-10275	8.3	5
63	Extractive removal and recovery of bisphenol A from aqueous solutions using terpenoids and hydrophobic eutectic solvents. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106128	6.8	3
62	Close-cycle process to produce CO ₂ -derived propylene carbonate based on amino acid catalyst and water. <i>Journal of CO₂ Utilization</i> , 2021 , 52, 101656	7.6	4
61	Extending the ability of cyclic carbonates for extracting BTEX to challenging low aromatic content naphtha: the designer solvent role at process scale. <i>Computers and Chemical Engineering</i> , 2021 , 154, 107468	4.68	4
60	Fatty alcohol/water reaction-separation platform to produce propylene carbonate from captured CO ₂ using a hydrophobic ionic liquid. <i>Separation and Purification Technology</i> , 2021 , 275, 119143	8.3	2
59	High pressure density of tricyanomethanide-based ionic liquids: Experimental and PC-SAFT modelling. <i>Fluid Phase Equilibria</i> , 2020 , 520, 112652	2.5	4
58	Enhanced separation of benzene and cyclohexane by homogeneous extractive distillation using ionic liquids as entrainers. <i>Separation and Purification Technology</i> , 2020 , 240, 116583	8.3	27
57	Separation of phenols from aqueous streams using terpenoids and hydrophobic eutectic solvents. <i>Separation and Purification Technology</i> , 2020 , 251, 117379	8.3	12
56	. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15058-15068	3.9	4
55	Separation of benzene from methylcycloalkanes by extractive distillation with cyano-based ionic liquids: Experimental and CPA EoS modelling. <i>Separation and Purification Technology</i> , 2020 , 234, 116128	8.3	13

54	Sustainable Recovery of Volatile Fatty Acids from Aqueous Solutions Using Terpenoids and Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16786-16794	8.3	18
53	Toward Modeling the Aromatic/Aliphatic Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids Using CPA EoS. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19681-19692	3.9	7
52	Cyclohexane/cyclohexene separation by extractive distillation with cyano-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 289, 111120	6	22
51	Impact of water on the [C4C1im][Ac] ability for the CO ₂ /CH ₄ separation. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 115-123	7.6	6
50	Dearomatization of pyrolysis gasoline by extractive distillation with 1-ethyl-3-methylimidazolium tricyanomethanide. <i>Fuel Processing Technology</i> , 2019 , 195, 106156	7.2	16
49	Stripping Columns to Regenerate Ionic Liquids and Selectively Recover Hydrocarbons Avoiding Vacuum Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20370-20380	3.9	10
48	High-Pressure Density of Bis(1-alkyl-3-methylimidazolium) Tetraisothiocyanatocobaltate Ionic Liquids: Experimental and PC-SAFT with Volume-Shift Modeling. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4827-4833	2.8	1
47	Imidazolium and pyridinium-based ionic liquids for the cyclohexane/cyclohexene separation by liquid-liquid extraction. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 340-346	2.9	24
46	Absorption refrigeration cycles based on ionic liquids: Refrigerant/absorbent selection by thermodynamic and process analysis. <i>Applied Energy</i> , 2018 , 213, 179-194	10.7	61
45	Molecular and Thermodynamic Properties of Zwitterions versus Ionic Liquids: A Comprehensive Computational Analysis to Develop Advanced Separation Processes. <i>ChemPhysChem</i> , 2018 , 19, 801-815	3.2	8
44	Novel Process to Reduce Benzene, Thiophene, and Pyrrole in Gasoline Based on [4bmpy][TCM] Ionic Liquid. <i>Energy & Fuels</i> , 2018 , 32, 5650-5658	4.1	10
43	Experimental screening towards developing ionic liquid-based extractive distillation in the dearomatization of refinery streams. <i>Separation and Purification Technology</i> , 2018 , 201, 268-275	8.3	27
42	Thermal stability of choline chloride deep eutectic solvents by TGA/FTIR-ATR analysis. <i>Journal of Molecular Liquids</i> , 2018 , 260, 37-43	6	143
41	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[4empy][NTf ₂] + [emim][DCA]} ionic liquid mixture. <i>Separation and Purification Technology</i> , 2018 , 190, 211-227	8.3	45
40	On the volatility of aromatic hydrocarbons in ionic liquids: Vapor-liquid equilibrium measurements and theoretical analysis. <i>Journal of Molecular Liquids</i> , 2018 , 250, 9-18	6	9
39	Choline Chloride-Based Deep Eutectic Solvents in the Dearomatization of Gasolines. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1039-1047	8.3	50
38	Toluene/n-Heptane Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids: Experimental and CPA EoS Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14242-14253	3.9	24
37	Encapsulated Ionic Liquids to Enable the Practical Application of Amino Acid-Based Ionic Liquids in CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14178-14187	8.3	42

36	Deepening of the Role of Cation Substituents on the Extractive Ability of Pyridinium Ionic Liquids of N-Compounds from Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2015-2025	8.3	18
35	Extraction of aromatic hydrocarbons from pyrolysis gasoline using tetrathiocyanatocobaltate-based ionic liquids: Experimental study and simulation. <i>Fuel Processing Technology</i> , 2017 , 159, 96-110	7.2	24
34	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> , 2017 , 120, 102-112	5.5	18
33	Ionic liquids for post-combustion CO ₂ capture by physical absorption: Thermodynamic, kinetic and process analysis. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 61, 61-70	4.2	75
32	New Experimental Data and Modeling of Glymes: Toward the Development of a Predictive Model for Polyethers. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7830-7844	3.9	16
31	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> , 2017 , 180, 149-156	8.3	34
30	Dearomatization of pyrolysis gasoline with an ionic liquid mixture: Experimental study and process simulation. <i>AIChE Journal</i> , 2017 , 63, 4054-4065	3.6	9
29	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][Tf ₂ N] + [emim][DCA] Ionic Liquids. <i>Energy & Fuels</i> , 2017 , 31, 1035-1043	4.1	17
28	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> , 2016 , 222, 118-124	6	15
27	Vapor-Liquid Equilibria for (n-Hexane, n-Octane, Cyclohexane, or 2,3-Dimethylpentane) + Toluene + {[4empy][Tf ₂ N] (0.3) + [emim][DCA] (0.7)} Mixed Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2440-2449	2.8	10
26	Vapor-Liquid Equilibria of n-Heptane + Toluene + 1-Ethyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 458-465	2.8	9
25	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> , 2016 , 109, 561-572	5.5	44
24	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> , 2016 , 96, 134-142	2.9	31
23	Vapor-liquid equilibria for n-heptane-[benzene, toluene, p-xylene, or ethylbenzene]-[4empy][Tf ₂ N] (0.3)-[emim][DCA] (0.7)} binary ionic liquid mixture. <i>Fluid Phase Equilibria</i> , 2016 , 417, 41-49	2.5	14
22	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> , 2016 , 6, 18751-18762	3.7	25
21	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> , 2016 , 223, 880-889	6	41
20	Separation of BTEX from a naphtha feed to ethylene crackers using a binary mixture of [4empy][Tf ₂ N] and [emim][DCA] ionic liquids. <i>Separation and Purification Technology</i> , 2015 , 144, 54-62	8.3	30
19	Thermal stability and specific heats of {[bpy][BF ₄] + [bpy][Tf ₂ N]} and {[bpy][BF ₄] + [4bmpy][Tf ₂ N]} mixed ionic liquid solvents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 119, 1235-1243	4.1	11

18	Dearomatization of pyrolysis gasolines from mild and severe cracking by liquid-liquid extraction using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Fuel Processing Technology</i> , 2015 , 137, 269-282	7.2	28
17	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> , 2015 , 91, 156-164	2.9	20
16	Mixing and decomposition behavior of {[4bmpy][Tf2N]+[emim][EtSO4]} and {[4bmpy][Tf2N]+[emim][TFES]} ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , 2015 , 82, 58-75	2.9	28
15	Vapor-liquid equilibria of {n-heptane + toluene + [emim][DCA]} system by headspace gas chromatography. <i>Fluid Phase Equilibria</i> , 2015 , 387, 209-216	2.5	42
14	Selective extraction of toluene from n-heptane using [emim][SCN] and [bmim][SCN] ionic liquids as solvents. <i>Journal of Chemical Thermodynamics</i> , 2014 , 79, 266-271	2.9	64
13	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> , 2014 , 380, 1-10	2.5	20
12	Liquid-liquid Extraction of BTEX from Reformer Gasoline Using Binary Mixtures of [4empy][Tf2N] and [emim][DCA] Ionic Liquids. <i>Energy & Fuels</i> , 2014 , 28, 6666-6676	4.1	43
11	Liquid-liquid Extraction of Toluene from n-Alkanes using {[4empy][Tf2N] + [emim][DCA]} Ionic Liquid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1692-1699	2.8	26
10	Thermal stability and specific heats of {[emim][DCA]+[emim][TCM]} mixed ionic liquids. <i>Thermochimica Acta</i> , 2014 , 588, 22-27	2.9	27
9	Thermal stability, specific heats, and surface tensions of ([emim][DCA]+[4empy][Tf2N]) ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , 2014 , 76, 152-160	2.9	37
8	Liquid-liquid extraction of toluene from n-heptane by {[emim][TCM]+[emim][DCA]} binary ionic liquid mixtures. <i>Fluid Phase Equilibria</i> , 2014 , 364, 48-54	2.5	51
7	Thermal Properties of Cyano-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2187-2193	2.8	111
6	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> , 2013 , 120, 392-401	8.3	52
5	Liquid-liquid Extraction of Toluene from Heptane Using [emim][DCA], [bmim][DCA], and [emim][TCM] Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2714-2720	3.9	138
4	Physical Characterization of an Aromatic Extraction Solvent Formed by [bpy][BF4] and [4bmpy][Tf2N] Mixed Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1496-1504	2.8	33
3	Physical Properties of N-Butylpyridinium Tetrafluoroborate and N-Butylpyridinium Bis(trifluoromethylsulfonyl)imide Binary Ionic Liquid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1318-1325	2.8	63
2	Physical Properties of Binary and Ternary Mixtures of 2-Propanol, Water, and 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1165-1173	2.8	48
1	Extractive Distillation with Ionic Liquids To Separate Benzene, Toluene, and Xylene from Pyrolysis Gasoline: Process Design and Techno-Economic Comparison with the Morphylane Process. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	4

