JoÃ£o M M AraÃºjo

List of Publications by Year
in descending order

46 papers	2,390 citations	257450 24 h-index	233421 45 g-index
47 all docs	47 docs citations	47 times ranked	2054 citing authors

#	Article	IF	Citations
1	Aqueous biphasic systems: a boost brought about by using ionic liquids. Chemical Society Reviews, 2012, 41, 4966.	38.1	726
2	Fluorinated Ionic Liquids: Properties and Applications. ACS Sustainable Chemistry and Engineering, 2013, 1, 427-439.	6.7	147
3	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. RSC Advances, 2013, 3, 1835-1843.	3.6	138
4	Development of novel ionic liquids based on ampicillin. MedChemComm, 2012, 3, 494.	3.4	105
5	Evaluation of solubility and partition properties of ampicillin-based ionic liquids. International Journal of Pharmaceutics, 2013, 456, 553-559.	5.2	97
6	Cholinium-based ionic liquids with pharmaceutically active anions. RSC Advances, 2014, 4, 28126-28132.	3.6	93
7	Inorganic salts in purely ionic liquid media: the development of high ionicity ionic liquids (HIILs). Chemical Communications, 2012, 48, 3656.	4.1	91
8	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 3733-3741.	6.7	57
9	Absorption of Fluorinated Greenhouse Gases Using Fluorinated Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 20769-20778.	3.7	55
10	Aggregation Behavior and Total Miscibility of Fluorinated Ionic Liquids in Water. Langmuir, 2015, 31, 1283-1295.	3.5	54
11	Human cytotoxicity and octanol/water partition coefficients of fluorinated ionic liquids. Chemosphere, 2019, 216, 576-586.	8.2	53
12	Single-column simulated-moving-bed process with recycle lag. AICHE Journal, 2005, 51, 1641-1653.	3.6	52
13	Fluorinated ionic liquids for protein drug delivery systems: Investigating their impact on the structure and function of lysozyme. International Journal of Pharmaceutics, 2017, 526, 309-320.	5.2	49
14	Influence of Nanosegregation on the Phase Behavior of Fluorinated Ionic Liquids. Journal of Physical Chemistry C, 2017, 121, 5415-5427.	3.1	46
15	Screening of Ionic Liquids and Deep Eutectic Solvents for Physical CO₂ Absorption by Soft-SAFT Using Key Performance Indicators. Journal of Chemical & Engineering Data, 2020, 65, 5844-5861.	1.9	40
16	Experimental assessment of simulated moving bed and varicol processes using a single-column setup. Journal of Chromatography A, 2007, 1142, 69-80.	3.7	38
17	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. Langmuir, 2016, 32, 6130-6139.	3.5	38
18	Use of Single-Column Models for Efficient Computation of the Periodic State of a Simulated Moving-Bed Process. Industrial & Engineering Chemistry Research, 2006, 45, 5314-5325.	3.7	33

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19	Solvation of Nucleobases in 1,3-Dialkylimidazolium Acetate Ionic Liquids: NMR Spectroscopy Insights into the Dissolution Mechanism. Journal of Physical Chemistry B, 2011, 115, 10739-10749.	2.6	31
20	Optimal design and operation of a certain class of asynchronous simulated moving bed processes. Journal of Chromatography A, 2006, 1132, 76-89.	3.7	29
21	Insights into the influence of the molecular structures of fluorinated ionic liquids on their thermophysical properties. A soft-SAFT based approach. Physical Chemistry Chemical Physics, 2019, 21, 6362-6380.	2.8	28
22	Process Evaluation of Fluorinated Ionic Liquids as F-Gas Absorbents. Environmental Science & Technology, 2020, 54, 12784-12794.	10.0	28
23	Hydrogen-Bonding and the Dissolution Mechanism of Uracil in an Acetate Ionic Liquid: New Insights from NMR Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry B, 2013, 117, 4109-4120.	2.6	27
24	Anomalous and Not-So-Common Behavior in Common Ionic Liquids and Ionic Liquid-Containing Systems. Frontiers in Chemistry, 2019, 7, 450.	3.6	24
25	Thermophysical Characterization of Ionic Liquids Based on the Perfluorobutanesulfonate Anion: Experimental and Softâ€SAFT Modeling Results. ChemPhysChem, 2017, 18, 2012-2023.	2.1	23
26	Absorption of Fluorinated Greenhouse Gases in Deep Eutectic Solvents. Industrial & Engineering Chemistry Research, 2020, 59, 13246-13259.	3.7	23
27	Design of Ionic Liquids for Fluorinated Gas Absorption: COSMO-RS Selection and Solubility Experiments. Environmental Science & Technology, 2022, 56, 5898-5909.	10.0	23
28	Chiral separation by two-column, semi-continuous, open-loop simulated moving-bed chromatography. Journal of Chromatography A, 2010, 1217, 5407-5419.	3.7	21
29	Waste Management Strategies to Mitigate the Effects of Fluorinated Greenhouse Gases on Climate Change. Applied Sciences (Switzerland), 2021, 11, 4367.	2.5	21
30	High ionicity ionic liquids (HIILs): comparing the effect of ethylsulfonate and ethylsulfate anions. Physical Chemistry Chemical Physics, 2013, 15, 18138.	2.8	20
31	Optimal design and experimental validation of synchronous, asynchronous and flow-modulated, simulated moving-bed processes using a single-column setup. Journal of Chromatography A, 2007, 1162, 14-23.	3.7	19
32	Insight on the Solubility of R134a in Fluorinated Ionic Liquids and Deep Eutectic Solvents. Journal of Chemical & Engineering Data, 2020, 65, 4956-4969.	1.9	19
33	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part II: Gas Separation Properties toward Fluorinated Greenhouse Gases. Nanomaterials, 2021, 11, 582.	4.1	18
34	Two-column simulated moving-bed process for binary separation. Journal of Chromatography A, 2008, 1180, 42-52.	3.7	17
35	Design of task-specific fluorinated ionic liquids: nanosegregation versus hydrogen-bonding ability in aqueous solutions. Chemical Communications, 2018, 54, 3524-3527.	4.1	17
36	Physicochemical Characterization of Ionic Liquid Binary Mixtures Containing 1-Butyl-3-methylimidazolium as the Common Cation. Journal of Chemical & Engineering Data, 2019, 64, 4891-4903.	1.9	17

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37	Optimal design of simulated movingâ€bed processes under flow rate uncertainty. AIChE Journal, 2007, 53, 2630-2642.	3.6	16
38	On-line enantiomeric analysis using high-performance liquid chromatography in chiral separation by simulated moving bed. Journal of Chromatography A, 2008, 1189, 292-301.	3.7	15
39	Determination of competitive isotherms of enantiomers by a hybrid inverse method using overloaded band profiles and the periodic state of the simulated moving-bed process. Journal of Chromatography A, 2008, 1189, 302-313.	3.7	10
40	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part I: Membrane Synthesis and Characterization. Nanomaterials, 2021, 11, 607.	4.1	10
41	Electron Driven Reactions in Tetrafluoroethane: Positive and Negative Ion Formation. Journal of the American Society for Mass Spectrometry, 2021, 32, 1459-1468.	2.8	8
42	Unveiling the Influence of Non-Toxic Fluorinated Ionic Liquids Aqueous Solutions in the Encapsulation and Stability of Lysozyme. Sustainable Chemistry, 2021, 2, 149-166.	4.7	6
43	Ecotoxicity and Hemolytic Activity of Fluorinated Ionic Liquids. Sustainable Chemistry, 2021, 2, 115-126.	4.7	5
44	Understanding the Absorption of Fluorinated Gases in Fluorinated Ionic Liquids for Recovering Purposes Using Soft-SAFT. Journal of Chemical & Engineering Data, 2022, 67, 1951-1963.	1.9	2
45	Disclosing the Potential of Fluorinated Ionic Liquids as Interferon-Alpha 2b Delivery Systems. Nanomaterials, 2022, 12, 1851.	4.1	1
46	Synthesis and Characterization of Fluorinated Phosphonium Ionic Liquids to Use as New Engineering Solvents. ChemEngineering, 2022, 6, 38.	2.4	0