MÃ¡rcia C Neves

List of Publications by Year
in descending order

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193 papers	8,752 citations	41258 49 h-index	53109 85 g-index
195 all docs	195 docs citations	195 times ranked	7258 citing authors

#	Article	IF	Citations
1	Aqueous biphasic systems: a boost brought about by using ionic liquids. Chemical Society Reviews, 2012, 41, 4966.	18.7	726
2	Ionic-Liquid-Mediated Extraction and Separation Processes for Bioactive Compounds: Past, Present, and Future Trends. Chemical Reviews, 2017, 117, 6984-7052.	23.0	689
3	Ionic liquid solutions as extractive solvents for value-added compounds from biomass. Green Chemistry, 2014, 16, 4786-4815.	4.6	357
4	Evaluation of Cationâ˜'Anion Interaction Strength in Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 4033-4041.	1.2	227
5	Photocatalytic decolorization of methylene blue in the presence of TiO2/ZnS nanocomposites. Journal of Hazardous Materials, 2009, 161, 545-550.	6.5	187
6	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. Separation and Purification Technology, 2010, 75, 39-47.	3.9	180
7	Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. ACS Sustainable Chemistry and Engineering, 2016, 4, 2881-2886.	3.2	177
8	The magic of aqueous solutions of ionic liquids: ionic liquids as a powerful class of catanionic hydrotropes. Green Chemistry, 2015, 17, 3948-3963.	4.6	156
9	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. RSC Advances, 2013, 3, 1835-1843.	1.7	138
10	Enhanced extraction of caffeine from guaranÃ¡ seeds using aqueous solutions of ionic liquids. Green Chemistry, 2013, 15, 2002.	4.6	127
11	Enhanced biocatalytic sustainability of laccase by immobilization on functionalized carbon nanotubes/polysulfone membranes. Chemical Engineering Journal, 2019, 355, 974-985.	6.6	124
12	Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. Separation and Purification Technology, 2014, 128, 1-10.	3.9	116
13	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. Separation and Purification Technology, 2012, 97, 142-149.	3.9	108
14	The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. International Journal of Molecular Sciences, 2020, 21, 8298.	1.8	108
15	Photosensitization of TiO2 by Ag2S and its catalytic activity on phenol photodegradation. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 204, 168-173.	2.0	107
16	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 15-21.	1.4	105
17	Extraction of tetracycline from fermentation broth using aqueous two-phase systems composed of polyethylene glycol and cholinium-based salts. Process Biochemistry, 2013, 48, 716-722.	1.8	101
18	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. Molecules, 2020, 25, 3652.	1.7	99

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19	Novel Biocompatible and Selfâ€buffering Ionic Liquids for Biopharmaceutical Applications. Chemistry - A European Journal, 2015, 21, 4781-4788.	1.7	96
20	Laccase Activation in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2019, 7, 11806-11814.	3.2	95
21	Good's buffers as a basis for developing self-buffering and biocompatible ionic liquids for biological research. Green Chemistry, 2014, 16, 3149-3159.	4.6	94
22	Enhanced extraction of proteins using choliniumâ€based ionic liquids as phaseâ€forming components of aqueous biphasic systems. Biotechnology Journal, 2015, 10, 1457-1466.	1.8	92
23	Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline vs. liquid cholinium-based salts. Physical Chemistry Chemical Physics, 2014, 16, 5723.	1.3	90
24	Chemical bath deposition of BiVO4. Thin Solid Films, 2002, 406, 93-97.	0.8	89
25	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. Green Chemistry, 2014, 16, 259-268.	4.6	89
26	Deep eutectic solvents comprising active pharmaceutical ingredients in the development of drug delivery systems. Expert Opinion on Drug Delivery, 2019, 16, 497-506.	2.4	88
27	Influence of calcination parameters on the TiO2 photocatalytic properties. Materials Chemistry and Physics, 2011, 125, 20-25.	2.0	83
28	Vaporâ€“Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. Industrial & Engineering Chemistry Research, 2014, 53, 3737-3748.	1.8	82
29	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. Physical Chemistry Chemical Physics, 2015, 17, 31653-31661.	1.3	77
30	Enhanced extraction of bovine serum albumin with aqueous biphasic systems of phosphonium- and ammonium-based ionic liquids. Journal of Biotechnology, 2015, 206, 17-25.	1.9	75
31	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. ChemSusChem, 2018, 11, 753-762.	3.6	75
32	Suitability of bio-based ionic liquids for the extraction and purification of IgG antibodies. Green Chemistry, 2016, 18, 6071-6081.	4.6	74
33	Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. Scientific Reports, 2016, 6, 20276.	1.6	72
34	Thermophysical properties of phosphonium-based ionic liquids. Fluid Phase Equilibria, 2015, 400, 103-113.	1.4	67
35	Densities, viscosities and derived thermophysical properties of water-saturated imidazolium-based ionic liquids. Fluid Phase Equilibria, 2016, 407, 188-196.	1.4	67
36	Non-ionic hydrophobic eutectics â€“ versatile solvents for tailored metal separation and valorisation. Green Chemistry, 2020, 22, 2810-2820.	4.6	67

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37	Anti-inflammatory and antioxidant nanostructured cellulose membranes loaded with phenolic-based ionic liquids for cutaneous application. Carbohydrate Polymers, 2019, 206, 187-197.	5.1	66
38	Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. Process Biochemistry, 2015, 50, 1158-1166.	1.8	65
39	Improving the extraction and purification of immunoglobulin G by the use of ionic liquids as adjuvants in aqueous biphasic systems. Journal of Biotechnology, 2016, 236, 166-175.	1.9	65
40	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. ChemSusChem, 2020, 13, 784-790.	3.6	63
41	Synthetic hollow zinc oxide microparticles. Materials Research Bulletin, 2001, 36, 1099-1108.	2.7	60
42	Enhancing the Antioxidant Characteristics of Phenolic Acids by Their Conversion into Cholinium Salts. ACS Sustainable Chemistry and Engineering, 2015, 3, 2558-2565.	3.2	54
43	Aqueous Solutions of Surface-Active Ionic Liquids: Remarkable Alternative Solvents To Improve the Solubility of Triterpenic Acids and Their Extraction from Biomass. ACS Sustainable Chemistry and Engineering, 2017, 5, 7344-7351.	3.2	54
44	Stimuli responsive ion gels based on polysaccharides and other polymers prepared using ionic liquids and deep eutectic solvents. Carbohydrate Polymers, 2018, 180, 328-336.	5.1	53
45	Cloud Point Extraction of Chlorophylls from Spinach Leaves Using Aqueous Solutions of Nonionic Surfactants. ACS Sustainable Chemistry and Engineering, 2018, 6, 590-599.	3.2	53
46	Influence of the sodium/proton replacement on the structural, morphological and photocatalytic properties of titanate nanotubes. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 232, 50-56.	2.0	52
47	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. Green Chemistry, 2016, 18, 4582-4604.	4.6	52
48	Aqueous biphasic systems composed of ionic liquids and polypropylene glycol: insights into their liquidâ€“liquid demixing mechanisms. Physical Chemistry Chemical Physics, 2016, 18, 20571-20582.	1.3	51
49	Design of Nonsteroidal Anti-Inflammatory Drug-Based Ionic Liquids with Improved Water Solubility and Drug Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 14126-14134.	3.2	51
50	Removal of Nonsteroidal Anti-Inflammatory Drugs from Aqueous Environments with Reusable Ionic-Liquid-Based Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 2428-2436.	3.2	50
51	Alkaloids as Alternative Probes To Characterize the Relative Hydrophobicity of Aqueous Biphasic Systems. ACS Sustainable Chemistry and Engineering, 2016, 4, 1512-1520.	3.2	48
52	An integrated process for enzymatic catalysis allowing product recovery and enzyme reuse by applying thermoreversible aqueous biphasic systems. Green Chemistry, 2018, 20, 1218-1223.	4.6	47
53	Recent Strategies and Applications for l-Asparaginase Confinement. Molecules, 2020, 25, 5827.	1.7	47
54	One-step extraction and concentration of estrogens for an adequate monitoring of wastewater using ionic-liquid-based aqueous biphasic systems. Green Chemistry, 2015, 17, 2570-2579.	4.6	46

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55	Polyvinylidene fluorideâ€“Hyaluronic acid wound dressing comprised of ionic liquids for controlled drug delivery and dual therapeutic behavior. Acta Biomaterialia, 2019, 100, 142-157.	4.1	45
56	Insights into coacervative and dispersive liquid-phase microextraction strategies with hydrophilic media â€“ A review. Analytica Chimica Acta, 2021, 1143, 225-249.	2.6	45
57	Effective separation of aromatic and aliphatic amino acid mixtures using ionic-liquid-based aqueous biphasic systems. Green Chemistry, 2017, 19, 1850-1854.	4.6	43
58	Single-step purification of ovalbumin from egg white using aqueous biphasic systems. Process Biochemistry, 2016, 51, 781-791.	1.8	42
59	Chemical bath deposition of cerium doped BiVO4. Dyes and Pigments, 2003, 59, 181-184.	2.0	41
60	Controlling the Formation of Ionicâ€Liquidâ€based Aqueous Biphasic Systems by Changing the Hydrogenâ€Bonding Ability of Polyethylene Glycol End Groups. ChemPhysChem, 2015, 16, 2219-2225.	1.0	41
61	Understanding the effect of ionic liquids as adjuvants in the partition of biomolecules in aqueous two-phase systems formed by polymers and weak salting-out agents. Biochemical Engineering Journal, 2019, 141, 239-246.	1.8	40
62	Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. Chemical Engineering Journal, 2020, 381, 122616.	6.6	40
63	Growth of BiVO4 particles in cellulosic fibres by in situ reaction. Dyes and Pigments, 2005, 65, 125-127.	2.0	39
64	Performance of tetraalkylammonium-based ionic liquids as constituents of aqueous biphasic systems in the extraction of ovalbumin and lysozyme. Separation and Purification Technology, 2020, 233, 116019.	3.9	39
65	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. Langmuir, 2016, 32, 6130-6139.	1.6	38
66	Growth and Chemical Stability of Copper Nanostructures on Cellulosic Fibers. European Journal of Inorganic Chemistry, 2012, 2012, 5043-5049.	1.0	37
67	Enhanced tunability afforded by aqueous biphasic systems formed by fluorinated ionic liquids and carbohydrates. Green Chemistry, 2016, 18, 1070-1079.	4.6	37
68	Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. Separation and Purification Technology, 2018, 204, 30-37.	3.9	37
69	Recovery of carotenoids from brown seaweeds using aqueous solutions of surface-active ionic liquids and anionic surfactants. Separation and Purification Technology, 2018, 196, 300-308.	3.9	37
70	Adsorption and catalytic properties of SiO2/Bi2S3 nanocomposites on the methylene blue photodecolorization process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 328, 107-113.	2.3	36
71	Aqueous Biphasic Systems Composed of Ionic Liquids and Acetate-Based Salts: Phase Diagrams, Densities, and Viscosities. Journal of Chemical & Engineering Data, 2015, 60, 1674-1682.	1.0	36
72	Photoluminescent, transparent and flexible di-ureasil hybrids containing CdSe/ZnS quantum dots. Nanotechnology, 2008, 19, 155601.	1.3	35

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73	Deep Eutectic Solvents as Efficient Media for the Extraction and Recovery of Cynaropicrin from Cynara cardunculus L. Leaves. International Journal of Molecular Sciences, 2017, 18, 2276.	1.8	35
74	Evaluation of the effect of ionic liquids as adjuvants in polymer-based aqueous biphasic systems using biomolecules as molecular probes. Separation and Purification Technology, 2018, 196, 244-253.	3.9	35
75	L-asparaginase production review: bioprocess design and biochemical characteristics. Applied Microbiology and Biotechnology, 2021, 105, 4515-4534.	1.7	35
76	Preparation and optical properties of CdSe/polymer nanocomposites. Scripta Materialia, 2000, 43, 567-571.	2.6	34
77	Single-step extraction of carotenoids from brown macroalgae using non-ionic surfactants. Separation and Purification Technology, 2017, 172, 268-276.	3.9	34
78	Enhanced separation performance of aqueous biphasic systems formed by carbohydrates and tetraalkylphosphonium- or tetraalkylammonium-based ionic liquids. Green Chemistry, 2018, 20, 2978-2983.	4.6	33
79	Structural insights into the effect of cholinium-based ionic liquids on the critical micellization temperature of aqueous triblock copolymers. Physical Chemistry Chemical Physics, 2016, 18, 8342-8351.	1.3	32
80	Separation of immunoglobulin G using aqueous biphasic systems composed of cholinumâ€based ionic liquids and poly(propylene glycol). Journal of Chemical Technology and Biotechnology, 2018, 93, 1931-1939.	1.6	32
81	Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. Bioresource Technology, 2020, 311, 123524.	4.8	32
82	Switchable (pH-driven) aqueous biphasic systems formed by ionic liquids as integrated productionâ€“separation platforms. Green Chemistry, 2017, 19, 2768-2773.	4.6	31
83	Sustainable strategies based on glycineâ€“betaine analogue ionic liquids for the recovery of monoclonal antibodies from cell culture supernatants. Green Chemistry, 2019, 21, 5671-5682.	4.6	31
84	Extraction of High Value Triterpenic Acids from Eucalyptus globulus Biomass Using Hydrophobic Deep Eutectic Solvents. Molecules, 2020, 25, 210.	1.7	31
85	Enhanced extraction and biological activity of 7-hydroxymatairesinol obtained from Norway spruce knots using aqueous solutions of ionic liquids. Green Chemistry, 2017, 19, 2626-2635.	4.6	30
86	Anti-fungal activity of SiO2/Ag2S nanocomposites against Aspergillus niger. Colloids and Surfaces B: Biointerfaces, 2009, 74, 304-308.	2.5	29
87	Separation of phenolic compounds by centrifugal partition chromatography. Green Chemistry, 2018, 20, 1906-1916.	4.6	29
88	Solid catalysts obtained from wastes for FAME production using mixtures of refined palm oil and waste cooking oils. Renewable Energy, 2019, 136, 873-883.	4.3	29
89	Temperature dependency of aqueous biphasic systems: an alternative approach for exploring the differences between Coulombic-dominated salts and ionic liquids. Chemical Communications, 2017, 53, 7298-7301.	2.2	28
90	Improved monitoring of aqueous samples by the preconcentration of active pharmaceutical ingredients using ionic-liquid-based systems. Green Chemistry, 2017, 19, 4651-4659.	4.6	28

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91	From Single-Molecule Precursors to Coupled Ag2S/TiO2Nanocomposites. European Journal of Inorganic Chemistry, 2008, 2008, 4380-4386.	1.0	27
92	Simultaneous extraction and concentration of water pollution tracers using ionic-liquid-based systems. Journal of Chromatography A, 2018, 1559, 69-77.	1.8	27
93	Unveiling Modifications of Biomass Polysaccharides during Thermal Treatment in Cholinium Chlorideâ€‰:â€‰Lactic Acid Deep Eutectic Solvent. ChemSusChem, 2021, 14, 686-698.	3.6	26
94	Improved extraction of fluoroquinolones with recyclable ionic-liquid-based aqueous biphasic systems. Green Chemistry, 2016, 18, 2717-2725.	4.6	25
95	Surface tensions of ionic liquids: Non-regular trend along the number of cyano groups. Fluid Phase Equilibria, 2016, 409, 458-465.	1.4	24
96	Cholinium-Based Goodâ€™s Buffers Ionic Liquids as Remarkable Stabilizers and Recyclable Preservation Media for Recombinant Small RNAs. ACS Sustainable Chemistry and Engineering, 2018, 6, 16645-16656.	3.2	24
97	Ionic Liquids in Drug Delivery. Encyclopedia, 2021, 1, 324-339.	2.4	24
98	Effect of the Methylation and Nâ€“H Acidic Group on the Physicochemical Properties of Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 8781-8792.	1.2	23
99	Designing the thermal behaviour of aqueous biphasic systems composed of ammonium-based zwitterions. Green Chemistry, 2017, 19, 4012-4016.	4.6	23
100	Enhanced Dissolution of Chitin Using Acidic Deep Eutectic Solvents: A Sustainable and Simple Approach to Extract Chitin from Crayfish shell Wastes as Alternative Feedstocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 16073-16081.	3.2	23
101	Goodâ€™s buffers as novel phase-forming components of ionic-liquid-based aqueous biphasic systems. Biochemical Engineering Journal, 2015, 101, 142-149.	1.8	22
102	Effect of salts on the solubility of ionic liquids in water: experimental and electrolyte Perturbed-Chain Statistical Associating Fluid Theory. Physical Chemistry Chemical Physics, 2015, 17, 32044-32052.	1.3	22
103	Novel one-pot synthesis and sensitisation of new BiOClâ€“Bi₂S₃ nanostructures from DES medium displaying high photocatalytic activity. RSC Advances, 2016, 6, 77329-77339.	1.7	21
104	Use of Ionic Liquids as Cosurfactants in Mixed Aqueous Micellar Two-Phase Systems to Improve the Simultaneous Separation of Immunoglobulin G and Human Serum Albumin from Expired Human Plasma. ACS Sustainable Chemistry and Engineering, 2019, 7, 15102-15113.	3.2	21
105	Protein-olive oil-in-water nanoemulsions as encapsulation materials for curcumin acting as anticancer agent towards MDA-MB-231 cells. Scientific Reports, 2021, 11, 9099.	1.6	21
106	Zinc Sulfide Nanocoating of Silica Submicron Spheres Using a Single-source Method. Journal of Nanoscience and Nanotechnology, 2004, 4, 146-150.	0.9	20
107	Integrated Extraction-Preservation Strategies for RNA Using Biobased Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 9439-9448.	3.2	20
108	Development and characterization of a novel <scp>l</scp>-asparaginase/MWCNT nanobioconjugate. RSC Advances, 2020, 10, 31205-31213.	1.7	20

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109	Interferon-Based Biopharmaceuticals: Overview on the Production, Purification, and Formulation. Vaccines, 2021, 9, 328.	2.1	19
110	Biofunctionalized ferromagnetic CoPt3/polymer nanocomposites. Nanotechnology, 2007, 18, 215609.	1.3	18
111	Evidence for the Interactions Occurring Between Ionic Liquids and Tetraethylene Glycol in Binary Mixtures and Aqueous Biphasic Systems. Journal of Physical Chemistry B, 2014, 118, 4615-4629.	1.2	18
112	Solubility and solvation of monosaccharides in ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 19722-19730.	1.3	18
113	Extraction of recombinant proteins from <scp>Escherichia coli</scp> by cell disruption with aqueous solutions of surfaceâ€active compounds. Journal of Chemical Technology and Biotechnology, 2018, 93, 1864-1870.	1.6	18
114	Extraction and recovery processes for cynaropicrin from Cynara cardunculus L. using aqueous solutions of surface-active ionic liquids. Biophysical Reviews, 2018, 10, 915-925.	1.5	18
115	Selective Separation of Manganese, Cobalt, and Nickel in a Fully Aqueous System. ACS Sustainable Chemistry and Engineering, 2020, 8, 12260-12269.	3.2	18
116	Langmuirâ€“Blodgett manipulation of capped cadmium sulfide quantum dots. Thin Solid Films, 2001, 389, 272-277.	0.8	17
117	Toward an Understanding of the Mechanisms behind the Formation of Liquidâ€“liquid Systems formed by Two Ionic Liquids. Journal of Physical Chemistry Letters, 2017, 8, 3015-3019.	2.1	17
118	Economic evaluation of the primary recovery of tetracycline with traditional and novel aqueous two-phase systems. Separation and Purification Technology, 2018, 203, 178-184.	3.9	17
119	Recovery of Syringic Acid from Industrial Food Waste with Aqueous Solutions of Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 14143-14152.	3.2	17
120	Hybrid alginateâ€“protein cryogel beads: efficient and sustainable bio-based materials to purify immunoglobulin G antibodies. Green Chemistry, 2020, 22, 2225-2233.	4.6	17
121	Optimization of FAME production from blends of waste cooking oil and refined palm oil using biomass fly ash as a catalyst. Renewable Energy, 2021, 163, 1637-1647.	4.3	17
122	Odd-even effect on the formation of aqueous biphasic systems formed by 1-alkyl-3-methylimidazolium chloride ionic liquids and salts. Journal of Chemical Physics, 2018, 148, .	1.2	16
123	Enhanced photocatalytic degradation of psychoactive substances using amine-modified elongated titanate nanostructures. Environmental Science: Nano, 2018, 5, 350-361.	2.2	16
124	Glycineâ€betaine ionic liquid analogues as novel phaseâ€forming components of aqueous biphasic systems. Biotechnology Progress, 2018, 34, 1205-1212.	1.3	16
125	Insights on the DNA Stability in Aqueous Solutions of Ionic Liquids. Frontiers in Bioengineering and Biotechnology, 2020, 8, 547857.	2.0	16
126	Good's buffer ionic liquids as relevant phaseâ€forming components of selfâ€buffered aqueous biphasic systems. Journal of Chemical Technology and Biotechnology, 2017, 92, 2287-2299.	1.6	15

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127	Simultaneous Separation of Antioxidants and Carbohydrates From Food Wastes Using Aqueous Biphasic Systems Formed by Cholinium-Derived Ionic Liquids. Frontiers in Chemistry, 2019, 7, 459.	1.8	15
128	Aqueous biphasic systems comprising copolymers and cholinium-based salts or ionic liquids: Insights on the mechanisms responsible for their creation. Separation and Purification Technology, 2020, 248, 117050.	3.9	15
129	Deposition/Detachment of Particles on Plasma Treated Polymer Surfaces. Materials Science Forum, 2003, 426-432, 2533-2538.	0.3	14
130	A Triple Saltingâ€Out Effect is Required for the Formation of Ionicâ€Liquidâ€Based Aqueous Multiphase Systems. Angewandte Chemie - International Edition, 2017, 56, 15058-15062.	7.2	14
131	Using aqueous solutions of ionic liquids as chlorophyll eluents in solid-phase extraction processes. Chemical Engineering Journal, 2022, 428, 131073.	6.6	14
132	Mechanisms ruling the partition of solutes in ionic-liquid-based aqueous biphasic systems â€“ the multiple effects of ionic liquids. Physical Chemistry Chemical Physics, 2018, 20, 8411-8422.	1.3	13
133	Oneâ€Step Allâ€Aqueous Interfacial Assembly of Robust Membranes for Longâ€Term Encapsulation and Culture of Adherent Stem/Stromal Cells. Advanced Healthcare Materials, 2021, 10, e2100266.	3.9	13
134	Deep Eutectic Solvent Formulations and Alginate-Based Hydrogels as a New Partnership for the Transdermal Administration of Anti-Inflammatory Drugs. Pharmaceutics, 2022, 14, 827.	2.0	13
135	Valorization of Expired Energy Drinks by Designed and Integrated Ionic Liquid-Based Aqueous Biphasic Systems. ACS Sustainable Chemistry and Engineering, 2020, 8, 5683-5692.	3.2	12
136	Enhanced Extraction of Levodopa from Mucuna pruriens Seeds Using Aqueous Solutions of Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2020, 8, 6682-6689.	3.2	12
137	Synthesis and assembly of SiO2-coated Bi2S3 nanofibers. Journal of Colloid and Interface Science, 2003, 264, 391-395.	5.0	11
138	Towards the differential diagnosis of prostate cancer by the pre-treatment of human urine using ionic liquids. Scientific Reports, 2020, 10, 14931.	1.6	11
139	Enhancing Artemisinin Solubility in Aqueous Solutions: Searching for Hydrotropes based on Ionic Liquids. Fluid Phase Equilibria, 2021, 534, 112961.	1.4	11
140	Integrated Biocatalytic Platform Based on Aqueous Biphasic Systems for the Sustainable Oligomerization of Rutin. ACS Sustainable Chemistry and Engineering, 2021, 9, 9941-9950.	3.2	11
141	Layer-by-Layer Deposition of Organically Capped Quantum Dots. Materials Science Forum, 2006, 514-516, 1111-1115.	0.3	10
142	Potential of aqueous twoâ€phase systems for the separation of levodopa from similar biomolecules. Journal of Chemical Technology and Biotechnology, 2018, 93, 1940-1947.	1.6	10
143	Continuous separation of cytochrome-c PEGylated conjugates by fast centrifugal partition chromatography. Green Chemistry, 2019, 21, 5501-5506.	4.6	10
144	Oddâ€“Even Effect in the Formation and Extraction Performance of Ionic-Liquid-Based Aqueous Biphasic Systems. Industrial & Engineering Chemistry Research, 2019, 58, 8323-8331.	1.8	10

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145	Overview on Protein Extraction and Purification Using Ionic-Liquid-Based Processes. Journal of Solution Chemistry, 2022, 51, 243-278.	0.6	10
146	Sustainable liquid supports for laccase immobilization and reuse: Degradation of dyes in aqueous biphasic systems. Biotechnology and Bioengineering, 2021, 118, 2514-2523.	1.7	10
147	Boosting antibiotics performance by new formulations with deep eutectic solvents. International Journal of Pharmaceutics, 2022, 616, 121566.	2.6	10
148	Growth of cadmium selenide nanocrystals on submicron silica. Journal of Crystal Growth, 2005, 279, 433-438.	0.7	9
149	Recovery of immunoglobulin G from rabbit serum using Î°-carrageenan-modified hybrid magnetic nanoparticles. International Journal of Biological Macromolecules, 2020, 150, 914-921.	3.6	9
150	Aqueous biphasic systems in the separation of food colorants. Biochemistry and Molecular Biology Education, 2018, 46, 390-397.	0.5	8
151	Solvatochromism as a new tool to distinguish structurally similar compounds. Journal of Molecular Liquids, 2019, 274, 740-745.	2.3	8
152	Supported Ionic Liquids for the Efficient Removal of Acetylsalicylic Acid from Aqueous Solutions. European Journal of Inorganic Chemistry, 2020, 2020, 2380-2389.	1.0	8
153	Advances Achieved by Ionic-Liquid-Based Materials as Alternative Supports and Purification Platforms for Proteins and Enzymes. Nanomaterials, 2021, 11, 2542.	1.9	8
154	The first dinuclear zinc(II) dithiocarbamate complex with butyl substituent groups. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, m1067-m1069.	0.2	7
155	Improved ionic-liquid-functionalized macroporous supports able to purify nucleic acids in one step. Materials Today Bio, 2020, 8, 100086.	2.6	7
156	Instantaneous fibrillation of egg white proteome with ionic liquid and macromolecular crowding. Communications Materials, 2020, 1, .	2.9	7
157	Pelletized biomass fly ash for FAME production: Optimization of a continuous process. Fuel, 2021, 293, 120425.	3.4	7
158	L-Asparaginase-Based Biosensors. Encyclopedia, 2021, 1, 848-858.	2.4	7
159	Advances Brought by Hydrophilic Ionic Liquids in Fields Involving Pharmaceuticals. Materials, 2021, 14, 6231.	1.3	7
160	Towards the Use of Adsorption Methods for the Removal of Purines from Beer. Molecules, 2021, 26, 6460.	1.7	7
161	Preparation of hollow shells of zinc oxide/bismuth(III) vanadate. Materials Research Bulletin, 2003, 38, 1013-1020.	2.7	6
162	Photoluminescence of zinc oxide supported on submicron silica particles. Materials Science and Engineering C, 2005, 25, 654-657.	3.8	6

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163	Cellulose/iron oxide hybrids as multifunctional pigments in thermoplastic starch based materials. Cellulose, 2013, 20, 861-871.	2.4	6
164	Introduction to Ionic-Liquid-Based Aqueous Biphasic Systems (ABS). Green Chemistry and Sustainable Technology, 2016, , 1-25.	0.4	6
165	Binary Mixtures of Ionic Liquids in Aqueous Solution: Towards an Understanding of Their Salting-In/Salting-Out Phenomena. Journal of Solution Chemistry, 2019, 48, 983-991.	0.6	6
166	Superior operational stability of immobilized l-asparaginase over surface-modified carbon nanotubes. Scientific Reports, 2021, 11, 21529.	1.6	6
167	Improved Production of 5-Hydroxymethylfurfural in Acidic Deep Eutectic Solvents Using Microwave-Assisted Reactions. International Journal of Molecular Sciences, 2022, 23, 1959.	1.8	6
168	Supported Ionic Liquids Used as Chromatographic Matrices in Bioseparationâ€"An Overview. Molecules, 2022, 27, 1618.	1.7	6
169	Efficient Extraction of the RuBisCO Enzyme from Spinach Leaves Using Aqueous Solutions of Biocompatible Ionic Liquids. Sustainable Chemistry, 2022, 3, 1-18.	2.2	6
170	Chlorophylls Extraction from Spinach Leaves Using Aqueous Solutions of Surface-Active Ionic Liquids. Sustainable Chemistry, 2021, 2, 764-777.	2.2	6
171	Integrated Approach to Extract and Purify Proteins from Honey by Ionic Liquid-Based Three-Phase Partitioning. ACS Sustainable Chemistry and Engineering, 2022, 10, 9275-9281.	3.2	6
172	Liquidâ€"Liquid Equilibrium and Extraction Performance of Aqueous Biphasic Systems Composed of Water, Cholinium Carboxylate Ionic Liquids and K₂CO₃. Journal of Chemical & Engineering Data, 2019, 64, 4946-4955.	1.0	5
173	Purification of green fluorescent protein using fast centrifugal partition chromatography. Separation and Purification Technology, 2021, 257, 117648.	3.9	5
174	Separation of Albumin from Bovine Serum Applying Ionic-Liquid-Based Aqueous Biphasic Systems. Applied Sciences (Switzerland), 2022, 12, 707.	1.3	5
175	Enhanced Enzyme Reuse through the Bioconjugation of L-Asparaginase and Silica-Based Supported Ionic Liquid-like Phase Materials. Molecules, 2022, 27, 929.	1.7	5
176	High Performance of Ionic-Liquid-Based Materials to Remove Insecticides. International Journal of Molecular Sciences, 2022, 23, 2989.	1.8	5
177	Enhanced Furfural Production in Deep Eutectic Solvents Comprising Alkali Metal Halides as Additives. Molecules, 2021, 26, 7374.	1.7	5
178	Eco-Friendly Hybrid Pigments Made of Cellulose and Iron Oxides. Journal of Nanoscience and Nanotechnology, 2012, 12, 6817-6821.	0.9	4
179	Efficient Isolation of Bacterial RNAs Using Silica-Based Materials Modified with Ionic Liquids. Life, 2021, 11, 1090.	1.1	4
180	Immobilization and Characterization of L-Asparaginase over Carbon Xerogels. BioTech, 2022, 11, 10.	1.3	4

#	Article	IF	Citations
181	Size and Shape-Tuned Overgrowth on Au Nanorods Regulated by Polyallylamine. Journal of Nanoscience and Nanotechnology, 2006, 6, 3373-3375.	0.9	3
182	Integrated Production and Separation of Furfural Using an Acidic-Based Aqueous Biphasic System. ACS Sustainable Chemistry and Engineering, 2021, 9, 12205-12212.	3.2	3
183	Use of Nanomaterials in the Pretreatment of Water Samples for Environmental Analysis. Advanced Structured Materials, 2019, , 103-142.	0.3	2
184	A Triple Saltingâ€Out Effect is Required for the Formation of Ionicâ€Liquidâ€Based Aqueous Multiphase Systems. Angewandte Chemie, 2017, 129, 15254-15258.	1.6	2
185	Application of Ionic Liquids in Separation and Fractionation Processes. , 2018, , 1-29.		2
186	Controlled Synthesis of Morphological Well-Defined BiVO₄ Pigment Particles Supported on Glass Substrates. Materials Science Forum, 2006, 514-516, 1211-1215.	0.3	1
187	Ionic Liquids in Bioseparation Processes. Advances in Biochemical Engineering/Biotechnology, 2018, 168, 1-29.	0.6	1
188	Application of Ionic Liquids in Separation and Fractionation Processes. , 2019, , 637-665.		1
189	Opposite Effects Induced by Cholinium-Based Ionic Liquid Electrolytes in the Formation of Aqueous Biphasic Systems Comprising Polyethylene Glycol and Sodium Polyacrylate. Molecules, 2021, 26, 6612.	1.7	1
190	A simple approach for the determination and characterization of ternary phase diagrams of aqueous two-phase systems composed of water, polyethylene glycol and sodium carbonate. Chemical Engineering Education, 2019, 53, 112-120.	0.2	1
191	Nucleophilic degradation of diazinon in thermoreversible polymerâ€“polymer aqueous biphasic systems. Physical Chemistry Chemical Physics, 2021, 23, 4133-4140.	1.3	0
192	25th Anniversary of Moleculesâ€”Recent Advances in Green Chemistry. Molecules, 2021, 26, 3768.	1.7	0
193	Biomedical-related applications of functionalized nanomaterials. , 2020, , 205-230.		0