

Paula Berton

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,900
citations

201658
27
h-index

168376
53
g-index

76
all docs

76
docs citations

76
times ranked

3923
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of ionic liquids for dewatering stable solid/liquid complex slurries. AICHE Journal, 2022, 68, .	3.6	0
2	Ionic liquids: Implementing objectives of sustainability for the next generation chemical processes and industrial applications. Current Opinion in Green and Sustainable Chemistry, 2022, 35, 100625.	5.9	4
3	Ionic Liquids for Transdermal Drug Delivery: Choline Geranate System as a Case Study. , 2021, , 35-50.		1
4	Phase Behavior of Aqueous Biphasic Systems with Choline Alkanoate Ionic Liquids and Phosphate Solutions: The Influence of pH. Molecules, 2021, 26, 1702.	3.8	12
5	Efficient Low-Cost Procedure for Microextraction of Estrogen from Environmental Water Using Magnetic Ionic Liquids. Molecules, 2021, 26, 32.	3.8	10
6	Plasmon-Enhanced 5-Hydroxymethylfurfural Production from the Photothermal Conversion of Cellulose in a Biphasic Medium. ACS Sustainable Chemistry and Engineering, 2021, 9, 16115-16122.	6.7	9
7	Ionic Liquids-Based Bitumen Extraction: Enabling Recovery with Environmental Footprint Comparable to Conventional Oil. ACS Sustainable Chemistry and Engineering, 2020, 8, 632-641.	6.7	21
8	Tuning Ionic Liquids for Simultaneous Dilution and Demulsification of Water-In-Bitumen Emulsions at Ambient Temperature. SPE Journal, 2020, 25, 759-770.	3.1	6
9	Microemulsion Formulations with Tunable Displacement Mechanisms for Heavy Oil Reservoirs. SPE Journal, 2020, 25, 2663-2677.	3.1	12
10	Use of Ionic Liquids in Chitin Biorefinery: A Systematic Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 11.	4.1	27
11	Choline-based aqueous biphasic systems: Overview of applications. Fluid Phase Equilibria, 2019, 502, 112258.	2.5	27
12	<i>110th Anniversary:</i> High-Molecular-Weight Chitin and Cellulose Hydrogels from Biomass in Ionic Liquids without Chemical Crosslinking. Industrial & Engineering Chemistry Research, 2019, 58, 19862-19876.	3.7	21
13	Microemulsion Formulations with Tunable Displacement Mechanisms for Heavy Oil Reservoirs. , 2019, , .		0
14	Water in Solutions of Chaotropic and Kosmotropic Salts: A Differential Scanning Calorimetry Investigation. Journal of Chemical & Engineering Data, 2019, 64, 4781-4792.	1.9	6
15	Low-Temperature Bitumen Recovery from Oil-Sand Reservoirs Using Ionic Liquids. SPE Journal, 2019, 24, 2409-2422.	3.1	7
16	Solubility Studies of Cyclosporine Using Ionic Liquids. ACS Omega, 2019, 4, 7938-7943.	3.5	18
17	In Search of Locally Produced Arsenic Sorbents via Impregnation of Cotton with Magnetite Nanoparticles Using Choline Acetate. Advanced Sustainable Systems, 2019, 3, 1800170.	5.3	0
18	Tuning Ionic Liquids for Simultaneous Dilution and Demulsification of Water-in-Bitumen Emulsions at Ambient Temperature. , 2019, , .		0

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19	Advances in Functional Chitin Materials: A Review. ACS Sustainable Chemistry and Engineering, 2019, 7, 6444-6457.	6.7	185
20	Chitin as a Resource for Eco-Friendly Bioplastics. , 2019, , 1-8.		3
21	Ionic liquids in cross-coupling reactions: “liquid” solutions to a “solid” precipitation problem. Chemical Communications, 2018, 54, 2056-2059.	4.1	12
22	Scaling-Up Ionic Liquid-Based Technologies: How Much Do We Care About Their Toxicity? Prima Facie Information on 1-Ethyl-3-Methylimidazolium Acetate. Toxicological Sciences, 2018, 161, 249-265.	3.1	47
23	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. Advances in Colloid and Interface Science, 2018, 252, 55-68.	14.7	109
24	Aqueous Biphasic Systems Composed of Random Ethylene/Propylene Oxide Copolymers, Choline Acetate, and Water for Triazine-Based Herbicide Partitioning Study. Solvent Extraction and Ion Exchange, 2018, 36, 602-616.	2.0	12
25	Polyoxometalate catalysts for biomass dissolution: understanding and design. Physical Sciences Reviews, 2018, 3, .	0.8	0
26	Porphyrinic Ionic Liquid Dyes: Synthesis and Characterization. ChemistryOpen, 2018, 7, 659-663.	1.9	5
27	Elucidating the triethylammonium acetate system: Is it molecular or is it ionic?. Journal of Molecular Liquids, 2018, 269, 126-131.	4.9	24
28	Enzymatic hydrolysis of ionic liquid-extracted chitin. Carbohydrate Polymers, 2018, 199, 228-235.	10.2	32
29	Ionic Liquids as Fragrance Precursors: Smart Delivery Systems for Volatile Compounds. Industrial & Engineering Chemistry Research, 2018, 57, 16069-16076.	3.7	19
30	Ionic Liquid Platform for Spinning Composite Chitin“Poly(lactic acid) Fibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 10241-10251.	6.7	39
31	Singlet Oxygen Production and Tunable Optical Properties of Deacetylated Chitin-Porphyrin Crosslinked Films. Biomacromolecules, 2018, 19, 3291-3300.	5.4	20
32	3. Polyoxometalate catalysts for biomass dissolution: understanding and design. , 2018, , 23-42.		0
33	The effects of pH on the partitioning of aromatic acids in a polyethylene glycol/dextran aqueous biphasic system. Separation Science and Technology, 2017, 52, 843-851.	2.5	3
34	Coprecipitation“assisted coacervative extraction coupled to high“performance liquid chromatography: An approach for determining organophosphorus pesticides in water samples. Electrophoresis, 2017, 38, 1334-1343.	2.4	16
35	Transdermal Bioavailability in Rats of Lidocaine in the Forms of Ionic Liquids, Salts, and Deep Eutectic. ACS Medicinal Chemistry Letters, 2017, 8, 498-503.	2.8	64
36	Translational Research from Academia to Industry: Following the Pathway of George Washington Carver. ACS Symposium Series, 2017, , 17-33.	0.5	10

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37	Group IIIA Halometallate Ionic Liquids: Speciation and Applications in Catalysis. ACS Catalysis, 2017, 7, 7014-7028.	11.2	61
38	Double salt ionic liquids based on 1-ethyl-3-methylimidazolium acetate and hydroxyl-functionalized ammonium acetates: strong effects of weak interactions. Physical Chemistry Chemical Physics, 2017, 19, 26934-26943.	2.8	20
39	Separate mechanisms of ion oligomerization tune the physicochemical properties of n-butylammonium acetate: cation-base clusters vs. anion-acid dimers. Physical Chemistry Chemical Physics, 2017, 19, 25544-25554.	2.8	18
40	Ionic liquids for consumer products: Dissolution, characterization, and controlled release of fragrance compositions. Fluid Phase Equilibria, 2017, 450, 51-56.	2.5	11
41	Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation. Biotechnology for Biofuels, 2017, 10, 154.	6.2	72
42	Determination of polybrominated diphenyl ethers in milk samples. Development of green extraction coupled techniques for sample preparation. Electrophoresis, 2017, 38, 460-468.	2.4	10
43	A platform for more sustainable chitin films from an ionic liquid process. Green Chemistry, 2017, 19, 117-126.	9.0	75
44	Ionic Liquids for Sustainable Chemical Processes. , 2017, , 645-651.		1
45	Double Salt Ionic Liquids Containing the Trihexyl(tetradecyl)phosphonium Cation: The Ability to Tune the Solubility of Aromatics, Ethers, and Lipophilic Compounds. ECS Transactions, 2016, 75, 451-465.	0.5	8
46	Preparation and comparison of bulk and membrane hydrogels based on Kraft- and ionic-liquid-isolated lignins. Green Chemistry, 2016, 18, 5607-5620.	9.0	56
47	State of the art of environmentally friendly sample preparation approaches for determination of PBDEs and metabolites in environmental and biological samples: A critical review. Analytica Chimica Acta, 2016, 905, 24-41.	5.4	57
48	Stripping Uranium from Seawater-Loaded Sorbents with the Ionic Liquid Hydroxylammonium Acetate in Acetic Acid for Efficient Reuse. Industrial & Engineering Chemistry Research, 2016, 55, 4321-4327.	3.7	4
49	Comparison of Hydrogels Prepared with Ionic-Liquid-Isolated vs Commercial Chitin and Cellulose. ACS Sustainable Chemistry and Engineering, 2016, 4, 471-480.	6.7	100
50	Hydrogels based on cellulose and chitin: fabrication, properties, and applications. Green Chemistry, 2016, 18, 53-75.	9.0	522
51	Use of wild trout for PBDE assessment in freshwater environments: Review and summary of critical factors. Emerging Contaminants, 2015, 1, 54-63.	4.9	15
52	Surfactant-free ionic liquids for extraction of phenolic compounds combined with rapid quantification using capillary electrophoresis. Electrophoresis, 2014, 35, 2463-2469.	2.4	21
53	Ionic liquid-based microextraction techniques for trace-element analysis. TrAC - Trends in Analytical Chemistry, 2014, 60, 54-70.	11.4	57
54	Ionic liquid-based dispersive microextraction of nitrotoluenes in water samples. Mikrochimica Acta, 2014, 181, 1191-1198.	5.0	16

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55	Fingerprint of persistent organic pollutants in tissues of Antarctic notothenioid fish. <i>Science of the Total Environment</i> , 2014, 499, 89-98.	8.0	50
56	A microextraction procedure based on an ionic liquid as an ion-pairing agent optimized using a design of experiments for chromium species separation and determination in water samples. <i>Analytical Methods</i> , 2013, 5, 5065.	2.7	19
57	Combined data mining strategy for the systematic identification of sport drug metabolites in urine by liquid chromatography time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2013, 761, 1-10.	5.4	16
58	An immobilized graphene oxide stationary phase for open-tubular capillary electrochromatography. <i>Electrophoresis</i> , 2013, 34, 1197-1202.	2.4	27
59	Ultrasound leaching-dispersive liquid-liquid microextraction based on solidification of floating organic droplet for determination of polybrominated diphenyl ethers in sediment samples by gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1285, 15-21.	3.7	36
60	Role and Importance of Hyphenated Techniques in Speciation Analysis. , 2013, , 250-270.		1
61	Dispersive liquid-liquid microextraction and preconcentration of thallium species in water samples by two ionic liquids applied as ion-pairing reagent and extractant phase. <i>Talanta</i> , 2012, 88, 277-283.	5.5	54
62	Selective extraction and determination of vitamin B12 in urine by ionic liquid-based aqueous two-phase system prior to high-performance liquid chromatography. <i>Talanta</i> , 2012, 97, 521-526.	5.5	46
63	Selective determination of inorganic cobalt in nutritional supplements by ultrasound-assisted temperature-controlled ionic liquid dispersive liquid phase microextraction and electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2012, 713, 56-62.	5.4	58
64	Determination of nitrotyrosine in <i>Arabidopsis thaliana</i> cell cultures with a mixed-mode solid-phase extraction cleanup followed by liquid chromatography time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1495-1503.	3.7	9
65	An online ionic liquid-based microextraction system coupled to electrothermal atomic absorption spectrometry for cobalt determination in environmental samples and pharmaceutical formulations. <i>Analytical Methods</i> , 2011, 3, 664.	2.7	51
66	Determination of inorganic selenium species in water and garlic samples with on-line ionic liquid dispersive microextraction and electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2011, 85, 2182-2188.	5.5	82
67	Development of an on-line temperature-assisted ionic liquid dispersive microextraction system for sensitive determination of vanadium in environmental and biological samples. <i>Journal of Hazardous Materials</i> , 2010, 176, 721-728.	12.4	81
68	Emerging ionic liquid-based techniques for total-metal and metal-speciation analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1184-1201.	11.4	90
69	Highly selective ionic liquid-based microextraction method for sensitive trace cobalt determination in environmental and biological samples. <i>Analytica Chimica Acta</i> , 2010, 662, 155-162.	5.4	84
70	Tetradecyl(trihexyl)phosphonium chloride ionic liquid single-drop microextraction for electrothermal atomic absorption spectrometric determination of lead in water samples. <i>Talanta</i> , 2010, 80, 2034-2040.	5.5	76
71	Trace mercury determination in drinking and natural water samples by room temperature ionic liquid based-preconcentration and flow injection-cold vapor atomic absorption spectrometry. <i>Journal of Hazardous Materials</i> , 2009, 167, 475-481.	12.4	91
72	Room temperature ionic liquid-based microextraction for vanadium species separation and determination in water samples by electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2009, 640, 40-46.	5.4	97