

Nicolas Papaiconomou

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.

51 papers	1,772 citations	23 h-index	41 g-index
54 ext. papers	1,963 ext. citations	5.2 avg, IF	4.71 L-index

#	Paper	IF	Citations
51	Toward a Critical Evaluation of DES-Based Organic Biphasic Systems: Are Deep Eutectic Solvents so Critical?. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9707-9716	8.3	1
50	Non-ionic hydrophobic eutectics Versatile solvents for tailored metal separation and valorisation. <i>Green Chemistry</i> , 2020 , 22, 2810-2820	10	30
49	A Comparison of Cobalt and Platinum Extraction in Hydrophobic and Hydrophilic Ionic Liquids: Implication for Proton Exchange Membrane Fuel Cell Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15865-15874	8.3	9
48	Selective Separation of Manganese, Cobalt, and Nickel in a Fully Aqueous System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12260-12269	8.3	7
47	Rh(III) Aqueous Speciation with Chloride as a Driver for Its Extraction by Phosphonium Based Ionic Liquids. <i>Molecules</i> , 2019 , 24,	4.8	15
46	Surface characterization of 1-butyl-1-ethylpiperidinium bromide by inverse gas chromatography. <i>Journal of Molecular Liquids</i> , 2019 , 287, 110945	6	5
45	Mechanisms of phase separation in temperature-responsive acidic aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7462-7473	3.6	14
44	Synergistic Aqueous Biphasic Systems: A New Paradigm for the One-Pot Hydrometallurgical Recovery of Critical Metals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1769-1777	8.3	18
43	Mechanism of ionic-liquid-based acidic aqueous biphasic system formation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9838-9846	3.6	18
42	Extraction of Polyoxometallate Anions Containing Tungsten Towards Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2018 , 47, 1339-1350	1.8	2
41	Understanding the fundamentals of acid-induced ionic liquid-based aqueous biphasic system. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16477-16484	3.6	8
40	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1563-1566	16.4	59
39	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie</i> , 2018 , 130, 1579-1582	3.6	6
38	Polyphenol, polysaccharide and lactate extraction from pulping factory black liquor by ionic liquids. <i>Separation and Purification Technology</i> , 2018 , 196, 140-148	8.3	7
37	Dicyanamide Ions as Complexing Agents of Co(II): From Weak Ligands in Water to Strong Ones in an Ionic Liquid. <i>Solvent Extraction and Ion Exchange</i> , 2018 , 36, 583-601	2.5	4
36	Recovery of metals from waste electrical and electronic equipment (WEEE) using unconventional solvents based on ionic liquids. <i>Critical Reviews in Environmental Science and Technology</i> , 2018 , 48, 859-922	11.1	43
35	Separation of cerium(III) from lanthanum(III), neodymium(III) and praseodymium(III) by oxidation and liquid-liquid extraction using ionic liquids. <i>Separation and Purification Technology</i> , 2017 , 178, 169-177	8.3	32

34	The role of association of ions in ionic liquid/molecular solvent mixtures on metal extraction. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28834-28840	3.6	10
33	Quantitative extraction of Rh(iii) using ionic liquids and its simple separation from Pd(ii). <i>Dalton Transactions</i> , 2016 , 45, 15162-15169	4.3	37
32	Rationale for the implementation of reference electrodes in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8148-57	3.6	10
31	Uncertainty Principle in the Elucidation of the Extraction Mechanism of Ions from Aqueous towards Ionic Liquid Phases. PtCl ₆ ²⁻ and [C1C8IM][NTf ₂] as a Textbook Case. <i>ChemistrySelect</i> , 2016 , 1, 3892-3900	1.8	9
30	Dramatic Changes in the Solubilities of Ions Induced by Ligand Addition in Biphasic System D ₂ O/DNO ₃ //[C1C4im][Tf ₂ N]: A Phenomenological Study. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7502-10	3.4	12
29	Aqueous solutions of ionic liquids. Description of osmotic coefficients within the Binding Mean Spherical Approximation. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 445-451	2.9	3
28	Thermophysical properties and acute toxicity towards green algae and <i>Vibrio fischeri</i> of amino acid-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2015 , 212, 352-359	6	30
27	Possibilities and limitations in separating Pt(IV) from Pd(II) combining imidazolium and phosphonium ionic liquids. <i>Dalton Transactions</i> , 2015 , 44, 20131-8	4.3	44
26	Task-specific ionic liquid for the depolymerisation of starch-based industrial waste into high reducing sugars. <i>Catalysis Today</i> , 2014 , 223, 11-17	5.3	22
25	Unusual electrochemical behaviour of AuBr ₄ ⁻ in ionic liquids. Towards a simple recovery of gold(III) after extraction into an ionic liquid. <i>RSC Advances</i> , 2014 , 4, 58910-58915	3.7	5
24	Extraction of iridium(IV) from aqueous solutions using hydrophilic/hydrophobic ionic liquids. <i>RSC Advances</i> , 2014 , 4, 48260-48266	3.7	45
23	Experimental connections between aqueous-aqueous and aqueous-ionic liquid biphasic systems. <i>RSC Advances</i> , 2014 , 4, 13371	3.7	44
22	Removal of platinum from water by precipitation or liquid-liquid extraction and separation from gold using ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 2493	10	57
21	Selective extraction of gold and platinum in water using ionic liquids. A simple two-step extraction process. <i>Dalton Transactions</i> , 2013 , 42, 1979-82	4.3	40
20	Toxicological consequences of extracting KNbO ₃ and BaTiO ₃ nanoparticles from water using ionic liquids. <i>RSC Advances</i> , 2013 , 3, 9223	3.7	2
19	The effect of position and length of alkyl substituents in pyridinium based ionic liquids on temperature dependent transport properties. <i>Electrochimica Acta</i> , 2012 , 70, 124-130	6.7	13
18	Adsorption of ionic liquids onto activated carbons: Effect of pH and temperature. <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 55-63	5.3	48
17	Correlating the structure and composition of ionic liquids with their toxicity on <i>Vibrio fischeri</i> : A systematic study. <i>Journal of Hazardous Materials</i> , 2012 , 215-216, 40-8	12.8	105

16	Solutions of Alkylammonium and Bulky Anions: Description of Osmotic Coefficients within the Binding Mean Spherical Approximation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9661-9668	3.9	5
15	Efficient removal of gold complexes from water by precipitation or liquid-liquid extraction using ionic liquids. <i>Green Chemistry</i> , 2012 , 14, 2050	10	88
14	Synthesis, Physicochemical Properties, and Toxicity Data of New Hydrophobic Ionic Liquids Containing Dimethylpyridinium and Trimethylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1971-1979	2.8	42
13	A new ozone denuder for aerosol sampling based on an ionic liquid coating. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 857-64	4.4	11
12	In vitro cytotoxicities of ionic liquids: effect of cation rings, functional groups, and anions. <i>Environmental Toxicology</i> , 2009 , 24, 388-95	4.2	120
11	Selective Extraction of Copper, Mercury, Silver, and Palladium Ions from Water Using Hydrophobic Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 5080-5086	3.9	133
10	Room-temperature ionic liquid for lanthanum electrodeposition. <i>Electrochemistry Communications</i> , 2008 , 10, 1661-1664	5.1	63
9	Description of dilution enthalpies and heat capacities for aqueous solutions within the MSA-NRTL model with ion solvation. <i>Fluid Phase Equilibria</i> , 2008 , 264, 211-219	2.5	8
8	Physicochemical Properties of Hydrophobic Ionic Liquids Containing 1-Octylpyridinium, 1-Octyl-2-methylpyridinium, or 1-Octyl-4-methylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 833-840	2.8	84
7	Physicochemical properties and toxicities of hydrophobic piperidinium and pyrrolidinium ionic liquids. <i>Fluid Phase Equilibria</i> , 2007 , 261, 421-426	2.5	149
6	Synthesis and Properties of Seven Ionic Liquids Containing 1-Methyl-3-octylimidazolium or 1-Butyl-4-methylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1389-1393	2.8	114
5	Vapor Pressures, Osmotic and Activity Coefficients of Electrolytes in Protic Solvents at Different Temperatures. 1. Lithium Bromide in Methanol. <i>Journal of Solution Chemistry</i> , 2004 , 33, 227-245	1.8	20
4	New approaches to the calculation of thermodynamic properties of electrolyte solutions. <i>Journal of Molecular Liquids</i> , 2004 , 113, 5-8	6	4
3	Description of Vapor-Liquid Equilibria for CO ₂ in Electrolyte Solutions Using the Mean Spherical Approximation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5948-5957	3.4	7
2	Thermodynamics of the LiCl + H ₂ O System. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1331-1336	13.6	66
1	MSA-NRTL model for the description of the thermodynamic properties of electrolyte solutions. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4435-4443	3.6	43