Nicolas Papaiconomou

List of Publications by Citations

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	Physicochemical properties and toxicities of hydrophobic piperidinium and pyrrolidinium ionic liquids. *Fluid Phase Equilibria*, **2007**, 261, 421-426	2.5	149
50	Selective Extraction of Copper, Mercury, Silver, and Palladium Ions from Water Using Hydrophobic Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2008**, 47, 5080-5086	3.9	133
49	In vitro cytotoxicities of ionic liquids: effect of cation rings, functional groups, and anions. *Environmental Toxicology*, **2009**, 24, 388-95	4.2	120
48	Synthesis and Properties of Seven Ionic Liquids Containing 1-Methyl-3-octylimidazolium or 1-Butyl-4-methylpyridinium Cations. *Journal of Chemical & Engineering Data*, **2006**, 51, 1389-1393	2.8	114
47	Correlating the structure and composition of ionic liquids with their toxicity on Vibrio fischeri: A systematic study. *Journal of Hazardous Materials*, **2012**, 215-216, 40-8	12.8	105
46	Efficient removal of gold complexes from water by precipitation or liquid–liquid extraction using ionic liquids. *Green Chemistry*, **2012**, 14, 2050	10	88
45	Physicochemical Properties of Hydrophobic Ionic Liquids Containing 1-Octylpyridinium, 1-Octyl-2-methylpyridinium, or 1-Octyl-4-methylpyridinium Cations. *Journal of Chemical & Engineering Data*, **2007**, 52, 833-840	2.8	84
44	Thermodynamics of the LiCl + H2O System. *Journal of Chemical & Engineering Data*, **2002**, 47, 1331-1336	2.8	66
43	Room-temperature ionic liquid for lanthanum electrodeposition. *Electrochemistry Communications*, **2008**, 10, 1661-1664	5.1	63
42	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. *Angewandte Chemie - International Edition*, **2018**, 57, 1563-1566	16.4	59
41	Removal of platinum from water by precipitation or liquid–liquid extraction and separation from gold using ionic liquids. *Green Chemistry*, **2013**, 15, 2493	10	57
40	Adsorption of ionic liquids onto activated carbons: Effect of pH and temperature. *Microporous and Mesoporous Materials*, **2012**, 158, 55-63	5.3	48
39	Extraction of iridium(IV) from aqueous solutions using hydrophilic/hydrophobic ionic liquids. *RSC Advances*, **2014**, 4, 48260-48266	3.7	45
38	Possibilities and limitations in separating Pt(IV) from Pd(II) combining imidazolium and phosphonium ionic liquids. *Dalton Transactions*, **2015**, 44, 20131-8	4.3	44
37	Experimental connections between aqueous–aqueous and aqueous–ionic liquid biphasic systems. *RSC Advances*, **2014**, 4, 13371	3.7	44
36	MSA-NRTL model for the description of the thermodynamic properties of electrolyte solutions. *Physical Chemistry Chemical Physics*, **2002**, 4, 4435-4443	3.6	43
35	Recovery of metals from waste electrical and electronic equipment (WEEE) using unconventional solvents based on ionic liquids. *Critical Reviews in Environmental Science and Technology*, **2018**, 48, 859-922	11.1	43

34	Synthesis, Physicochemical Properties, and Toxicity Data of New Hydrophobic Ionic Liquids Containing Dimethylpyridinium and Trimethylpyridinium Cations *Journal of Chemical & Engineering Data*, **2010**, 55, 1971-1979	2.8	42
33	Selective extraction of gold and platinum in water using ionic liquids. A simple two-step extraction process. *Dalton Transactions*, **2013**, 42, 1979-82	4.3	40
32	Quantitative extraction of Rh(iii) using ionic liquids and its simple separation from Pd(ii). *Dalton Transactions*, **2016**, 45, 15162-15169	4.3	37
31	Separation of cerium(III) from lanthanum(III), neodymium(III) and praseodymium(III) by oxidation and liquid-liquid extraction using ionic liquids. *Separation and Purification Technology*, **2017**, 178, 169-177	8.3	32
30	Thermophysical properties and acute toxicity towards green algae and Vibrio fischeri of amino acid-based ionic liquids. *Journal of Molecular Liquids*, **2015**, 212, 352-359	6	30
29	Non-ionic hydrophobic eutectics versatile solvents for tailored metal separation and valorisation. *Green Chemistry*, **2020**, 22, 2810-2820	10	30
28	Task-specific ionic liquid for the depolymerisation of starch-based industrial waste into high reducing sugars. *Catalysis Today*, **2014**, 223, 11-17	5.3	22
27	Vapor Pressures, Osmotic and Activity Coefficients of Electrolytes in Protic Solvents at Different Temperatures. 1. Lithium Bromide in Methanol. *Journal of Solution Chemistry*, **2004**, 33, 227-245	1.8	20
26	Mechanism of ionic-liquid-based acidic aqueous biphasic system formation. *Physical Chemistry Chemical Physics*, **2018**, 20, 9838-9846	3.6	18
25	Synergistic Aqueous Biphasic Systems: A New Paradigm for the One-Pot Hydrometallurgical Recovery of Critical Metals. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1769-1777	8.3	18
24	Rh(III) Aqueous Speciation with Chloride as a Driver for Its Extraction by Phosphonium Based Ionic Liquids. *Molecules*, **2019**, 24,	4.8	15
23	Mechanisms of phase separation in temperature-responsive acidic aqueous biphasic systems. *Physical Chemistry Chemical Physics*, **2019**, 21, 7462-7473	3.6	14
22	The effect of position and length of alkyl substituents in pyridinium based ionic liquids on temperature dependent transport properties. *Electrochimica Acta*, **2012**, 70, 124-130	6.7	13
21	Dramatic Changes in the Solubilities of Ions Induced by Ligand Addition in Biphasic System D2O/DNO3//[C1C4im][Tf2N]: A Phenomenological Study. *Journal of Physical Chemistry B*, **2016**, 120, 7502-10	3.4	12
20	A new ozone denuder for aerosol sampling based on an ionic liquid coating. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 857-64	4.4	11
19	The role of association of ions in ionic liquid/molecular solvent mixtures on metal extraction. *Physical Chemistry Chemical Physics*, **2017**, 19, 28834-28840	3.6	10
18	Rationale for the implementation of reference electrodes in ionic liquids. *Physical Chemistry Chemical Physics*, **2016**, 18, 8148-57	3.6	10
17	A Comparison of Cobalt and Platinum Extraction in Hydrophobic and Hydrophilic Ionic Liquids: Implication for Proton Exchange Membrane Fuel Cell Recycling. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15865-15874	8.3	9

16	Uncertainty Principle in the Elucidation of the Extraction Mechanism of Ions from Aqueous towards Ionic Liquid Phases. PtCl62− and [C1C8IM][NTf2] as a Textbook Case. *ChemistrySelect*, **2016**, 1, 3892-3900	1.8	9
15	Understanding the fundamentals of acid-induced ionic liquid-based aqueous biphasic system. *Physical Chemistry Chemical Physics*, **2018**, 20, 16477-16484	3.6	8
14	Description of dilution enthalpies and heat capacities for aqueous solutions within the MSA−NRTL model with ion solvation. *Fluid Phase Equilibria*, **2008**, 264, 211-219	2.5	8
13	Description of Vapor−Liquid Equilibria for CO2 in Electrolyte Solutions Using the Mean Spherical Approximation. *Journal of Physical Chemistry B*, **2003**, 107, 5948-5957	3.4	7
12	Selective Separation of Manganese, Cobalt, and Nickel in a Fully Aqueous System. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12260-12269	8.3	7
11	Polyphenol, polysaccharide and lactate extraction from pulping factory black liquor by ionic liquids. *Separation and Purification Technology*, **2018**, 196, 140-148	8.3	7
10	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. *Angewandte Chemie*, **2018**, 130, 1579-1582	3.6	6
9	Surface characterization of 1-butyl-1-ethylpiperidinium bromide by inverse gas chromatography. *Journal of Molecular Liquids*, **2019**, 287, 110945	6	5
8	Unusual electrochemical behaviour of AuBr4− in ionic liquids. Towards a simple recovery of gold(III) after extraction into an ionic liquid. *RSC Advances*, **2014**, 4, 58910-58915	3.7	5
7	Solutions of Alkylammonium and Bulky Anions: Description of Osmotic Coefficients within the Binding Mean Spherical Approximation. *Industrial & Engineering Chemistry Research*, **2012**, 51, 9661-9668	3.8	5
6	New approaches to the calculation of thermodynamic properties of electrolyte solutions. *Journal of Molecular Liquids*, **2004**, 113, 5-8	6	4
5	Dicyanamide Ions as Complexing Agents of Co(II): From Weak Ligands in Water to Strong Ones in an Ionic Liquid. *Solvent Extraction and Ion Exchange*, **2018**, 36, 583-601	2.5	4
4	Aqueous solutions of ionic liquids. Description of osmotic coefficients within the Binding Mean Spherical Approximation. *Journal of Chemical Thermodynamics*, **2015**, 91, 445-451	2.9	3
3	Extraction of Polyoxometallate Anions Containing Tungsten Towards Ionic Liquids. *Journal of Solution Chemistry*, **2018**, 47, 1339-1350	1.8	2
2	Toxicological consequences of extracting KNbO3 and BaTiO3 nanoparticles from water using ionic liquids. *RSC Advances*, **2013**, 3, 9223	3.7	2
1	Toward a Critical Evaluation of DES-Based Organic Biphasic Systems: Are Deep Eutectic Solvents so Critical?. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9707-9716	8.3	1