

Alexandre Chagnes

List of Publications by Year in descending order

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times ranked

2894
citing authors

#	ARTICLE	IF	CITATIONS
1	Antisolvent Precipitation for Metal Recovery from Citric Acid Solution in Recycling of NMC Cathode Materials. <i>Metals</i> , 2022, 12, 607.	1.0	12
2	Application of Electrodialysis for the Selective Lithium Extraction Towards Cobalt, Nickel and Manganese from Leach Solutions Containing High Divalent Cations/Li Ratio. <i>Recycling</i> , 2022, 7, 14.	2.3	8
3	Development of a Novel Solvent Extraction Process to Recover Cobalt, Nickel, Manganese, and Lithium from Cathodic Materials of Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 582-593.	3.2	16
4	New insights in the leaching kinetics of cathodic materials in acidic chloride media for lithium-ion battery recycling. <i>Hydrometallurgy</i> , 2021, 204, 105705.	1.8	23
5	New insights for titanium(IV) speciation in acidic media based on UV-visible and ^{31}P NMR spectroscopies and molecular modeling. <i>RSC Advances</i> , 2021, 11, 27059-27073.	1.7	6
6	Physico-Chemical Characteristics of Spodumene Concentrate and Its Thermal Transformations. <i>Materials</i> , 2021, 14, 7423.	1.3	8
7	The Future of Scandium Recovery from Wastes. , 2021, 5, .		4
8	Simulation of Solvent Extraction Flowsheets by a Global Model Combining Physicochemical and Engineering Approaches—Application to Cobalt(II) Extraction by D2EHPA. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 3-13.	0.8	9
9	Recovery of Metal Values from Ni-Cd Cake Waste Residue of an Iranian Zinc Plant by Hydrometallurgical Route. <i>Metals</i> , 2020, 10, 655.	1.0	5
10	Effect of the Addition of Amine in Organophosphorus Compounds on Molecular Structuration of Ionic Liquids—Application to Solvent Extraction. <i>Molecules</i> , 2020, 25, 2584.	1.7	6
11	Literature Review and Thermodynamic Modelling of Roasting Processes for Lithium Extraction from Spodumene. <i>Metals</i> , 2020, 10, 1312.	1.0	20
12	Development of a Physicochemical Model Combined with an Engineering Model for Predicting Solvent Extraction Performances Within the Context of Lithium-Ion Battery Recycling. <i>Minerals, Metals and Materials Series</i> , 2020, , 3-9.	0.3	0
13	Recent advances on electrodialysis for the recovery of lithium from primary and secondary resources. <i>Hydrometallurgy</i> , 2019, 189, 105124.	1.8	71
14	In silico Design, Virtual Screening and Synthesis of Novel Electrolytic Solvents. <i>Molecular Informatics</i> , 2019, 38, 1900014.	1.4	5
15	Advances in Hydrometallurgy. <i>Metals</i> , 2019, 9, 211.	1.0	5
16	Investigation of the leaching mechanism of NMC 811 ($\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$) by hydrochloric acid for recycling lithium ion battery cathodes. <i>RSC Advances</i> , 2019, 9, 38612-38618.	1.7	45
17	Liquid-Liquid Extraction of Cobalt(II), Nickel(II) and Manganese(II) from Acidic Chloride Media. <i>Minerals, Metals and Materials Series</i> , 2018, , 2027-2032.	0.3	0
18	New cationic exchangers for the recovery of cobalt(II), nickel(II) and manganese(II) from acidic chloride solutions: Modelling of extraction curves. <i>Hydrometallurgy</i> , 2018, 180, 96-103.	1.8	10

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19	Chemical Degradation of a Mixture of tri-n-Octylamine and 1-Tridecanol in the Presence of Chromium(VI) in Acidic Sulfate Media. <i>Metals</i> , 2018, 8, 57.	1.0	10
20	Characterization of palladium species after β -irradiation of a TBP-alkane-Pd(NO ₃) ₂ system. <i>RSC Advances</i> , 2018, 8, 21513-21527.	1.7	9
21	Phosphoric acid recovery from concentrated aqueous feeds by a mixture of di-isopropyl ether (DiPE) and tri-n-butylphosphate (TBP): extraction data and modelling. <i>RSC Advances</i> , 2017, 7, 6922-6930.	1.7	25
22	A review on clogging of recirculating steam generators in Pressurized-Water Reactors. <i>Progress in Nuclear Energy</i> , 2017, 97, 182-196.	1.3	35
23	Sustainable extraction and separation of precious metals from hydrochloric media using novel ionic liquid-in-water microemulsion. <i>Hydrometallurgy</i> , 2017, 171, 344-354.	1.8	27
24	Guidelines to design organic electrolytes for lithium-ion batteries: environmental impact, physicochemical and electrochemical properties. <i>Green Chemistry</i> , 2017, 19, 1828-1849.	4.6	83
25	Effects of structural changes of new organophosphorus cationic exchangers on a solvent extraction of cobalt, nickel and manganese from acidic chloride media. <i>RSC Advances</i> , 2017, 7, 5660-5668.	1.7	36
26	Experimental Determination and Modeling of the Speciation of Uranium(VI) in Phosphoric Acid Medium. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 241-259.	0.8	11
27	Multinuclear Solid-State NMR Investigation of Hexaniobate and Hexatantalate Compounds. <i>Inorganic Chemistry</i> , 2016, 55, 5946-5956.	1.9	19
28	Highly selective separation of individual platinum group metals (Pd, Pt, Rh) from acidic chloride media using phosphonium-based ionic liquid in aromatic diluent. <i>RSC Advances</i> , 2016, 6, 62717-62728.	1.7	49
29	Development of a capillary electrophoresis method for the analysis in alkaline media as polyoxoanions of two strategic metals: Niobium and tantalum. <i>Journal of Chromatography A</i> , 2016, 1437, 210-218.	1.8	14
30	Modelling of uranium(VI) extraction by D2EHPA/TOPO from phosphoric acid within a wide range of concentrations. <i>Hydrometallurgy</i> , 2016, 165, 57-63.	1.8	23
31	Solubility of niobium(V) and tantalum(V) under mild alkaline conditions. <i>Hydrometallurgy</i> , 2015, 156, 99-106.	1.8	48
32	Extraction of Gold(III) from Acidic Chloride Media Using Phosphonium-based Ionic Liquid as an Anion Exchanger. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1350-1358.	1.8	75
33	First investigation of polyoxoniobate and polyoxotantalate aqueous speciation by capillary zone electrophoresis. <i>RSC Advances</i> , 2015, 5, 64119-64124.	1.7	19
34	Fundamentals in Electrochemistry and Hydrometallurgy. , 2015, , 41-80.		8
35	Physicochemical properties of novel cholinium ionic liquids for the recovery of silver from nitrate media. <i>RSC Advances</i> , 2015, 5, 78268-78277.	1.7	4
36	Separation of Co(II) and Ni(II) from aqueous solutions by bis(2,4,4-trimethylpentyl)phosphinic acid (Cyanex 272) using trihexyl(tetradecyl)phosphonium chloride (Cyphos IL 101) as solvent. <i>Journal of Molecular Liquids</i> , 2015, 209, 203-208.	2.3	27

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37	Highly Selective Solvent Extraction of Zn(II) and Cu(II) from Acidic Aqueous Chloride Solutions with Mixture of Cyanex 272 and Aliquat 336. <i>Separation Science and Technology</i> , 2015, 50, 1302-1309.	1.3	20
38	Pysicochemical Phenomena Involved in the Recovery of Uranium from Phosphate by BiDiBOPP/di-n-HMOPO and Development of New Cationic Extractants. <i>Procedia Engineering</i> , 2014, 83, 259-264.	1.2	3
39	Insight into the Solid Electrolyte Interphase on Si Nanowires in Lithium-Ion Battery: Chemical and Morphological Modifications upon Cycling. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2919-2928.	1.5	42
40	Investigation of the speciation of uranium(VI) in concentrated phosphoric acid and in synergistic extraction systems by time-resolved laser-induced fluorescence spectroscopy (TRLFS). <i>Journal of Molecular Liquids</i> , 2014, 190, 42-49.	2.3	27
41	Electrochemical behavior of sebaconitrile as a cosolvent in the formulation of electrolytes at high potentials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 115, 223-233.	2.6	34
42	Recovery of Uranium from Wet Phosphoric Acid by Solvent Extraction Processes. <i>Chemical Reviews</i> , 2014, 114, 12002-12023.	23.0	151
43	Solvent extraction studies of uranium(VI) from phosphoric acid: Role of synergistic reagents in mixture with bis(2-ethylhexyl) phosphoric acid. <i>Hydrometallurgy</i> , 2014, 144-145, 207-214.	1.8	34
44	Chemical properties of trihexyl(tetradecyl)phosphonium chloride and bis(2,4,4-trimethylpentyl)phosphinic acid mixtures: Interaction study by FT-IR and NMR spectroscopies. <i>Journal of Molecular Liquids</i> , 2013, 187, 165-170.	2.3	47
45	Development of New Cationic Exchangers for the Recovery of Uranium (VI) from Concentrated Phosphoric Acid. <i>Separation Science and Technology</i> , 2013, 48, 480-486.	1.3	27
46	A brief review on hydrometallurgical technologies for recycling spent lithium-ion batteries. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1191-1199.	1.6	384
47	Recovery of uranium (VI) from concentrated phosphoric acid by mixtures of new bis(1,3-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 28-33.	1.8	28
48	Interphase chemistry of Si electrodes used as anodes in Li-ion batteries. <i>Applied Surface Science</i> , 2013, 266, 5-16.	3.1	134
49	On the Metal Ion Selectivity of Oxoacid Extractants. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 95-105.	0.8	4
50	<i>In-Silico</i> Calculations as a Helpful Tool for Designing New Extractants in Liquid-Liquid Extraction. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 499-518.	0.8	5
51	Modeling of the extraction of uranium (VI) from concentrated phosphoric acid by synergistic mixtures of bis-(2-ethylhexyl)-phosphoric acid and tri-n-octylphosphine oxide. <i>Hydrometallurgy</i> , 2012, 129-130, 118-125.	1.8	35
52	Influence of Phase Modifiers on the Degradation of Tri-<i>n</i>-octylamine/dodecane Extracting Mixture by an Acidic Solution of Vanadium (V). <i>Solvent Extraction and Ion Exchange</i> , 2012, 30, 67-76.	0.8	7
53	In Vitro Biomineralization and Bulk Characterization of Chitosan/Hydroxyapatite Composite Microparticles Prepared by Emulsification Cross-Linking Method: Orthopedic Use. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1459-1475.	1.4	8
54	Morphology and antimicrobial properties of Luffa cylindrica fibers/chitosan biomaterial as micro-reservoirs for silver delivery. <i>Materials Letters</i> , 2012, 79, 238-241.	1.3	21

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55	Rheological behaviour of binary mixtures containing hexyl(tetradecyl)phosphonium chloride (Cyphos) Tj ETQq1 1 0.784314 rgBT /Ove Molecular Liquids, 2012, 169, 27-32.	2.3	18
56	A density functional theory study of uranium(vi) nitrate monoamide complexes. Physical Chemistry Chemical Physics, 2011, 13, 19371.	1.3	15
57	XPS, XRD and SEM characterization of a thin ceria layer deposited onto graphite electrode for application in lithium-ion batteries. Applied Surface Science, 2011, 257, 9110-9119.	3.1	106
58	Chemical degradation of trioctylamine and 1-tridecanol phase modifier in acidic sulfate media in the presence of vanadium (V). Hydrometallurgy, 2011, 105, 328-333.	1.8	24
59	Speciation of vanadium (V) extracted from acidic sulfate media by trioctylamine in n-dodecane modified with 1-tridecanol. Hydrometallurgy, 2010, 104, 20-24.	1.8	42
60	IR Fingerprints of U(VI) Nitrate Monoamides Complexes: A Joint Experimental and Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 10878-10884.	1.1	12
61	Solvent extraction of uranium from acidic sulfate media by Alamine [®] 336: computer simulation and optimization of the flow-sheets. Journal of Chemical Technology and Biotechnology, 2009, 84, 1331-1337.	1.6	19
62	Computer simulation of flow sheets for the solvent extraction of uranium: a new route to delay the effect of chemical degradation of the organic phase during uranium recovery from acidic sulfate media. Journal of Chemical Technology and Biotechnology, 2009, 84, 1899-1907.	1.6	9
63	Is 3-methyl-2-oxazolidinone a suitable solvent for lithium-ion batteries?. Journal of Power Sources, 2006, 156, 634-644.	4.0	21
64	Imidazolium-organic solvent mixtures as electrolytes for lithium batteries. Journal of Power Sources, 2005, 145, 82-88.	4.0	115
65	Mixed ionic liquid as electrolyte for lithium batteries. Journal of Power Sources, 2005, 146, 682-684.	4.0	134
66	Thermal analysis of $\hat{1}^3$ -butyrolactone+1 butyl-3-methyl-imidazolium ionic liquids mixtures. Solid State Ionics, 2005, 176, 1419-1427.	1.3	35
67	X-ray powder diffraction structure determination of $\hat{1}^3$ -butyrolactone at 180 \hat{a} ...K: phase-problem solution from the lattice energy minimization with two independent molecules. Acta Crystallographica Section B: Structural Science, 2005, 61, 312-320.	1.8	16
68	Physicochemical properties of fluorine-containing electrolytes for lithium batteries. , 2005, , 137-171.		4
69	Abnormal Temperature Dependence of the Viscosity of Ethylammonium Nitrate \hat{a} €“Methanol Ionic Mixtures. Journal of Solution Chemistry, 2004, 33, 247-255.	0.6	29
70	Experimental and computational investigation of the electrocatalytic hydrogenation of phenol in an electrochemical cell. Canadian Journal of Chemistry, 2004, 82, 641-648.	0.6	8
71	Rational Design of Original Materials for the Electrocatalytic Hydrogenation Reactions: \hat{A} Concept, Preparation, Characterization, and Theoretical Analysis. Langmuir, 2004, 20, 6365-6373.	1.6	28
72	Ion-Dipole Interactions in Concentrated Organic Electrolytes. ChemPhysChem, 2003, 4, 559-566.	1.0	18

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73	Cycling Ability of $\hat{\text{I}}^3$ -Butyrolactone-Ethylene Carbonate Based Electrolytes. Journal of the Electrochemical Society, 2003, 150, A1255.	1.3	46
74	Excess thermodynamic properties of binary liquid mixtures containing dimethylcarbonate and $\hat{\text{I}}^3$ -butyrolactone. Journal of Chemical Thermodynamics, 2002, 34, 1847-1856.	1.0	35
75	Phase diagram of $\hat{\text{I}}^3$ -butyrolactone-dimethyl-carbonate mixtures. European Physical Journal Special Topics, 2001, 11, Pr10-27-Pr10-33.	0.2	8