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Solubility of Double Alkali Metal (Na, K) Rare-Earth (La, Ce) Sulfates in Sulfuric-Phosphoric Acid Solutions at 20°C

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Russian Journal of Applied Chemistry, 2005, 78, 1058-1063.

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#	Paper	IF	Citations
34	Influence of complexation on the composition of equilibrium phases in the system of $Ce_2(SO_4)_3-La_2(SO_4)_3$. <i>Open Chemistry</i> , 2007 , 5, 13-19	1.6	1
33	Redox-Based Separation of Americium from Lanthanides in Sulfate Media. <i>Separation Science and Technology</i> , 2010 , 45, 1743-1752	2.5	13
32	Conversion Kinetics of Cerium Oxide into Sodium Cerium Sulfate in $Na_2SO_4-H_2SO_4-H_2O$ Solutions. <i>Materials Transactions</i> , 2012 , 53, 1992-1996	1.3	4
31	Synthesis of Sodium Cerium Sulfate ($NaCe(SO_4)_2 \cdot H_2O$) from Cerium Oxide in Sulfuric Acid Solutions. <i>Green Energy and Technology</i> , 2012 , 171-176	0.6	1
30	Extraction of Rare Earth Sulfates Using Saponified HEH (EHP) with Mg^{2+} Ion as Barrier Agent. <i>Separation Science and Technology</i> , 2013 , 48, 1572-1576	2.5	1
29	Leachability of rare-earth, calcium and minor metal ions from natural Fluorapatite in perchloric, hydrochloric, nitric and phosphoric acid solutions: Effect of proton activity and anion participation. <i>Hydrometallurgy</i> , 2015 , 153, 179-189	4	33
28	Recovery of yttrium and lanthanides from sulfate solutions with high concentration of iron and low rare earth content. <i>Hydrometallurgy</i> , 2015 , 157, 356-362	4	44
27	A hydrometallurgical method of energy saving type for separation of rare earth elements from rare earth polishing powder wastes with middle fraction of ceria. <i>Journal of Rare Earths</i> , 2016 , 34, 536-542	3.7	21
26	Rare earth metal ion solubility in sulphate-phosphate solutions of pH range 0.5 to 5.0 relevant to processing fluorapatite rich concentrates: Effect of calcium, aluminium, iron and sodium ions and temperature up to 80 °C. <i>Minerals Engineering</i> , 2016 , 98, 169-176	4.9	26
25	Leaching of rare earth elements from eudialyte concentrate by suppressing silica gel formation. <i>Minerals Engineering</i> , 2017 , 108, 115-122	4.9	53
24	Recoveries of Valuable Metals from Spent Nickel Metal Hydride Vehicle Batteries via Sulfation, Selective Roasting, and Water Leaching. <i>Journal of Sustainable Metallurgy</i> , 2018 , 4, 313-325	2.7	18
23	Simultaneous recovery of rare earths and uranium from wet process phosphoric acid using solvent extraction with D2EHPA. <i>Hydrometallurgy</i> , 2018 , 175, 109-116	4	59
22	Sustainable Hydrometallurgical Recovery of Valuable Elements from Spent Nickel Metal Hydride HEV Batteries. <i>Metals</i> , 2018 , 8, 1062	2.3	17
21	Upgrading of a rare earth phosphate concentrate within the nitrophosphate process. <i>Journal of Cleaner Production</i> , 2018 , 198, 551-563	10.3	7
20	Solubility of Rare Earth Salts in Sulphate-Phosphate Solutions of Hydrometallurgical Relevance. <i>Minerals, Metals and Materials Series</i> , 2018 , 1631-1643	0.3	
19	Innovative and Sustainable Valorization Process to Recover Scandium and Rare Earth Elements from Canadian Bauxite Residues. <i>Minerals, Metals and Materials Series</i> , 2018 , 2715-2722	0.3	
18	Synergistic Recovery of Valuable Metals from Spent Nickel Metal Hydride Batteries and Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16103-16111	8.3	25

17	Circulation of Sodium Sulfate Solution Produced During NiMH Battery Waste Processing. <i>Mining, Metallurgy and Exploration</i> , 2019 , 36, 979-991	1.1	5
16	Recovery of REEs, Zr(+Hf), Mn and Nb by H ₂ SO ₄ leaching of eudialyte concentrate. <i>Hydrometallurgy</i> , 2019 , 186, 176-186	4	14
15	Leaching Mechanisms of Industrial Powders of Spent Nickel Metal Hydride Batteries in a Pilot-Scale Reactor. <i>ChemSusChem</i> , 2020 , 13, 616-628	8.3	7
14	Effects of iron and temperature on solubility of light rare earth sulfates in multicomponent system of Fe ₂ (SO ₄) ₃ -H ₃ PO ₄ -H ₂ SO ₄ synthetic solution. <i>Journal of Rare Earths</i> , 2020 , 38, 1243-1250	3.7	2
13	Oxidative precipitation of cerium in acidic chloride solutions: Part II Oxidation in a mixed REE system. <i>Hydrometallurgy</i> , 2020 , 194, 105331	4	1
12	Nickel Metal Hydride Battery Waste: Mechano-hydrometallurgical Experimental Study on Recycling Aspects. <i>Journal of Sustainable Metallurgy</i> , 2020 , 6, 78-90	2.7	10
11	A critical review of bioleaching of rare earth elements: The mechanisms and effect of process parameters. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 378-427	11.1	28
10	BATCircle towards CO ₂ Low Battery Recycling. <i>Minerals, Metals and Materials Series</i> , 2021 , 91-97	0.3	
9	Selection of a hydrometallurgical process for rare earths extraction from a Brazilian monazite. <i>Hydrometallurgy</i> , 2021 , 200, 105556	4	3
8	High purity scandium extraction from red mud by novel simple technology. <i>Hydrometallurgy</i> , 2021 , 202, 105597	4	10
7	Thermodynamic Analysis of Precipitation Characteristics of Rare Earth Elements with Sulfate in Comparison with Other Common Precipitants. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 670	2.4	0
6	Pilot-Scale Lanthanide Precipitation from Sulfate-Based Spent Ni-MH Battery Leachates: Thermodynamic-Based Choice of Operating Conditions. <i>Crystal Growth and Design</i> ,	3.5	1
5	Selective recovery of rare earth elements (REEs) from spent NiMH batteries by two-stage acid leaching. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106084	6.8	8
4	Separation of rare earth elements from contaminants and valuable components by in-situ precipitation during the hydrometallurgical processing of eudialyte concentrate. <i>Hydrometallurgy</i> , 2020 , 194, 105345	4	6
3	Removal of Fluoride From Waste Acid Using Lanthanum Chloride: Defluoridation Behavior and Reaction Kinetics of Recovery Process. <i>SSRN Electronic Journal</i> ,	1	
2	Removal of fluoride from waste acid using lanthanum chloride: Defluoridation behavior and reaction kinetics of recovery process. 2022 , 167, 322-331		0
1	Chemical processes for the recovery of valuable metals from spent nickel metal hydride batteries: A review. 2022 , 170, 112983		2