

Antti HÄÄKkinen

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

940
citations

430754

18
h-index

501076

28
g-index

59
all docs

59
docs citations

59
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of sulfate from mining waters by electrocoagulation. Separation and Purification Technology, 2017, 182, 87-93.	3.9	73
2	Systematic study on sulfate removal from mining waters by electrocoagulation. Separation and Purification Technology, 2019, 216, 43-50.	3.9	56
3	IR spectroscopy together with multivariate data analysis as a process analytical tool for in-line monitoring of crystallization process and solid-state analysis of crystalline product. Journal of Pharmaceutical and Biomedical Analysis, 2005, 38, 275-284.	1.4	55
4	Acidic Dissolution of Magnetite: Experimental Study on the Effects of Acid Concentration and Temperature. Clays and Clay Minerals, 2011, 59, 136-146.	0.6	53
5	Separation, treatment and utilization of inorganic residues of chemical pulp mills. Journal of Cleaner Production, 2016, 133, 953-964.	4.6	47
6	Treatment of mining wastewater polluted with cyanide by coagulation processes: A mechanistic study. Separation and Purification Technology, 2020, 237, 116345.	3.9	46
7	DRIFT-IR for quantitative characterization of polymorphic composition of sulfathiazole. Analytica Chimica Acta, 2005, 544, 108-117.	2.6	34
8	The effect of crystallization conditions, crystal morphology and size on pressure filtration of l-glutamic acid and an aromatic amine. Separation and Purification Technology, 2009, 66, 549-558.	3.9	32
9	Acidic dissolution of hematite: Kinetic and thermodynamic investigations with oxalic acid. International Journal of Mineral Processing, 2012, 110-111, 121-125.	2.6	32
10	Ozonation of p-nitrophenol at different pH values of water and the influence of radicals at acidic conditions. Journal of Environmental Chemical Engineering, 2015, 3, 325-332.	3.3	27
11	Reduction of the width of particle size distribution to improve pressure filtration properties of slurries. Minerals Engineering, 2017, 102, 68-74.	1.8	24
12	Dynamic PCA-based MSPC charts for nucleation prediction in batch cooling crystallization processes. Chemometrics and Intelligent Laboratory Systems, 2006, 84, 126-133.	1.8	23
13	Efficient separation of hazardous trace metals and improvement of the filtration properties of green liquor dregs by a hydrocyclone. Journal of Cleaner Production, 2018, 183, 162-171.	4.6	23
14	Effect of mixing on enzymatic hydrolysis of cardboard waste: Saccharification yield and subsequent separation of the solid residue using a pressure filter. Bioresource Technology, 2012, 110, 405-411.	4.8	22
15	Dissolution of sodium, aluminum and caustic compounds from bauxite residues. Minerals Engineering, 2015, 79, 143-151.	1.8	21
16	Acidic dissolution of magnetite in mixtures of oxalic and sulfuric acid. Hydrometallurgy, 2016, 163, 91-98.	1.8	21
17	Specific energy consumption of cake dewatering with vacuum filters. Minerals Engineering, 2017, 100, 144-154.	1.8	21
18	Investigation of the parameters affecting the treatment of mining waters by electrocoagulation. Journal of Water Process Engineering, 2019, 32, 100929.	2.6	21

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19	ATR-FTIR in monitoring of crystallization processes: comparison of indirect and direct OSC methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 76, 25-35.	1.8	19
20	Wet grinding of CaCO ₃ with a stirred media mill: Influence of obtained particle size distributions on pressure filtration properties. <i>Powder Technology</i> , 2015, 273, 54-61.	2.1	19
21	Recovery of sodium from bauxite residue by pressure filtration and cake washing. <i>International Journal of Mineral Processing</i> , 2015, 141, 20-26.	2.6	18
22	Extraction of hazardous metals from green liquor dregs by ethylenediaminetetraacetic acid. <i>Journal of Environmental Management</i> , 2018, 212, 219-227.	3.8	18
23	Recovery of valuable metals from argon oxygen decarburization (AOD) dusts by leaching, filtration and solvent extraction. <i>Hydrometallurgy</i> , 2013, 140, 181-189.	1.8	14
24	Study on the filtration characteristics of green liquor dregs. <i>Chemical Engineering Journal</i> , 2017, 317, 471-480.	6.6	14
25	Improvement of the filtration characteristics of calcite slurry by hydrocyclone classification. <i>Minerals Engineering</i> , 2018, 128, 133-140.	1.8	14
26	Influence of enzyme loading on enzymatic hydrolysis of cardboard waste and size distribution of the resulting fiber residue. <i>Bioresource Technology</i> , 2014, 159, 136-142.	4.8	13
27	Enabling safe dry cake disposal of bauxite residue by deliquoring and washing with a membrane filter press. <i>Waste Management and Research</i> , 2015, 33, 258-266.	2.2	13
28	Batch cooling crystallization and pressure filtration of sulphathiazole: the influence of solvent composition. <i>Biotechnology and Applied Biochemistry</i> , 2005, 41, 17.	1.4	12
29	Removal of chloride from fly ash produced in hazardous waste incineration by leaching and displacement washing in a vertical filter press. <i>Waste Management and Research</i> , 2013, 31, 178-186.	2.2	12
30	Purification efficiency of natural freeze crystallization for urban wastewaters. <i>Cold Regions Science and Technology</i> , 2020, 170, 102953.	1.6	11
31	Use of Filter Aids to Improve the Filterability of Enzymatically Hydrolyzed Biomass Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14955-14964.	1.8	10
32	Empirical Modelling of Cake Washing in a Pressure Filter. <i>Separation Science and Technology</i> , 2012, 47, 1102-1112.	1.3	9
33	Solid-liquid separation of hydrolysates obtained from enzymatic hydrolysis of cardboard waste. <i>Industrial Crops and Products</i> , 2012, 38, 72-80.	2.5	9
34	The scaling and regeneration of the ceramic filter medium used in the dewatering of a magnetite concentrate. <i>International Journal of Mineral Processing</i> , 2013, 119, 21-26.	2.6	8
35	Specific energy consumption of vacuum filtration: Experimental evaluation using a pilot-scale horizontal belt filter. <i>Drying Technology</i> , 2020, 38, 460-475.	1.7	8
36	Dissolution kinetics of aluminosilicates from biomass ashes in alkaline solutions. <i>Ceramics International</i> , 2021, 47, 11714-11726.	2.3	8

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37	Experimental Study on the Influence of Selected Process Variables on the Separation of a Fine Particle Suspension with a Pilot Scale Decanter Centrifuge. <i>Particulate Science and Technology</i> , 2013, 31, 603-611.	1.1	7
38	Thermodynamic and Kinetic Studies of Dissolution of Hematite in Mixtures of Oxalic and Sulfuric Acid. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 69-80.	0.4	7
39	Removal of hazardous trace elements from recovery boiler fly ash with an ash dissolution method. <i>Journal of Cleaner Production</i> , 2019, 209, 1264-1273.	4.6	6
40	FORMATION OF HUMBOLDTINE DURING THE DISSOLUTION OF HEMATITE IN OXALIC ACID – DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS AND EXPERIMENTAL VERIFICATION. <i>Clays and Clay Minerals</i> , 2021, 69, 655-662.	0.6	6
41	Oxalic Acid Regeneration of Ceramic Filter Medium Used in the Dewatering of Iron Ore. <i>ISRN Chemical Engineering</i> , 2012, 2012, 1-6.	1.2	6
42	Effective removal of hazardous trace metals from recovery boiler fly ashes. <i>Journal of Hazardous Materials</i> , 2018, 344, 770-777.	6.5	5
43	Real-time monitoring of the moisture content of filter cakes in vacuum filters by a novel soft sensor. <i>Separation and Purification Technology</i> , 2019, 223, 282-291.	3.9	5
44	Pressure filtration properties of sludge generated in the electrochemical treatment of mining waters. <i>Water Research</i> , 2020, 181, 115922.	5.3	5
45	Characterisation of Industrial Side Streams and Their Application for the Production of Geopolymer Composites. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 593.	0.8	5
46	Steam Dewatering of Filter Cakes in a Vertical Filter Press. <i>Drying Technology</i> , 2013, 31, 1160-1169.	1.7	4
47	Removal of hazardous trace elements from green liquor dregs by mechanical separation methods. <i>Nordic Pulp and Paper Research Journal</i> , 2018, 33, 420-429.	0.3	4
48	Development of testing procedure for ceramic disc filters. <i>Minerals Engineering</i> , 2011, 24, 876-885.	1.8	3
49	Effect of Hydrodynamics During Crystallization on Mechanical Dewatering of Salicylic Acid. <i>Drying Technology</i> , 2013, 31, 1354-1361.	1.7	3
50	Prediction of pressure filtration characteristics of CaCO ₃ suspensions ground in a vertical stirred media mill. <i>Minerals Engineering</i> , 2015, 83, 201-204.	1.8	3
51	Performance comparison of anthracite filter media of different origin in the removal of organic traces from copper electrolyte. <i>International Journal of Mineral Processing</i> , 2017, 163, 24-34.	2.6	3
52	Analysis of Filtration Characteristics for Compressible Polycrystalline Particles by Partial Least Squares Regression. <i>Separation Science and Technology</i> , 2010, 45, 1196-1208.	1.3	2
53	Dissolution of Magnetite and Hematite in Mixtures of Oxalic and Nitric Acid: Mechanisms and Kinetics. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 560.	0.8	2
54	The Solubility of Two Magnetite Powders in Oxalic Acid: Applicability of Empirical Modelling. <i>Journal of Powder Technology</i> , 2013, 2013, 1-7.	0.4	1

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55	Challenges related to solute analysis of bauxite residue filter cakes. Minerals Engineering, 2018, 120, 1-6.	1.8	1
56	Local properties of filter cakes formed from pH-adjusted bauxite residue slurries. Separation and Purification Technology, 2018, 194, 1-9.	3.9	1
57	The effect of pH adjustment on the properties and pressure filtration characteristics of bauxite residue slurries. Separation and Purification Technology, 2019, 212, 289-298.	3.9	1
58	Influence of Water Quality on Corrosion of Multi-Oxide Engineering Ceramics. Ceramic Engineering and Science Proceedings, 0, , 51-57.	0.1	0