

# Antti Häkkinen

## List of Publications by Year in descending order

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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	Dissolution of Magnetite and Hematite in Mixtures of Oxalic and Nitric Acid: Mechanisms and Kinetics. Minerals (Basel, Switzerland), 2022, 12, 560.	0.8	2
2	Thermodynamic and Kinetic Studies of Dissolution of Hematite in Mixtures of Oxalic and Sulfuric Acid. Mining, Metallurgy and Exploration, 2021, 38, 69-80.	0.4	7
3	Dissolution kinetics of aluminosilicates from biomass ashes in alkaline solutions. Ceramics International, 2021, 47, 11714-11726.	2.3	8
4	Characterisation of Industrial Side Streams and Their Application for the Production of Geopolymer Composites. Minerals (Basel, Switzerland), 2021, 11, 593.	0.8	5
5	FORMATION OF HUMBOLDTINE DURING THE DISSOLUTION OF HEMATITE IN OXALIC ACID – DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS AND EXPERIMENTAL VERIFICATION. Clays and Clay Minerals, 2021, 69, 655-662.	0.6	6
6	Specific energy consumption of vacuum filtration: Experimental evaluation using a pilot-scale horizontal belt filter. Drying Technology, 2020, 38, 460-475.	1.7	8
7	Purification efficiency of natural freeze crystallization for urban wastewaters. Cold Regions Science and Technology, 2020, 170, 102953.	1.6	11
8	Treatment of mining wastewater polluted with cyanide by coagulation processes: A mechanistic study. Separation and Purification Technology, 2020, 237, 116345.	3.9	46
9	Pressure filtration properties of sludge generated in the electrochemical treatment of mining waters. Water Research, 2020, 181, 115922.	5.3	5
10	Investigation of the parameters affecting the treatment of mining waters by electrocoagulation. Journal of Water Process Engineering, 2019, 32, 100929.	2.6	21
11	Systematic study on sulfate removal from mining waters by electrocoagulation. Separation and Purification Technology, 2019, 216, 43-50.	3.9	56
12	Real-time monitoring of the moisture content of filter cakes in vacuum filters by a novel soft sensor. Separation and Purification Technology, 2019, 223, 282-291.	3.9	5
13	Removal of hazardous trace elements from recovery boiler fly ash with an ash dissolution method. Journal of Cleaner Production, 2019, 209, 1264-1273.	4.6	6
14	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
15	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
16	Challenges related to solute analysis of bauxite residue filter cakes. Minerals Engineering, 2018, 120, 1-6.	1.8	1
17	Extraction of hazardous metals from green liquor dregs by ethylenediaminetetraacetic acid. Journal of Environmental Management, 2018, 212, 219-227.	3.8	18
18	Local properties of filter cakes formed from pH-adjusted bauxite residue slurries. Separation and Purification Technology, 2018, 194, 1-9.	3.9	1

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19	Effective removal of hazardous trace metals from recovery boiler fly ashes. <i>Journal of Hazardous Materials</i> , 2018, 344, 770-777.	6.5	5
20	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
21	Improvement of the filtration characteristics of calcite slurry by hydrocyclone classification. <i>Minerals Engineering</i> , 2018, 128, 133-140.	1.8	14
22	Study on the filtration characteristics of green liquor dregs. <i>Chemical Engineering Journal</i> , 2017, 317, 471-480.	6.6	14
23	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
24	Removal of sulfate from mining waters by electrocoagulation. <i>Separation and Purification Technology</i> , 2017, 182, 87-93.	3.9	73
25	Reduction of the width of particle size distribution to improve pressure filtration properties of slurries. <i>Minerals Engineering</i> , 2017, 102, 68-74.	1.8	24
26	Specific energy consumption of cake dewatering with vacuum filters. <i>Minerals Engineering</i> , 2017, 100, 144-154.	1.8	21
27	Acidic dissolution of magnetite in mixtures of oxalic and sulfuric acid. <i>Hydrometallurgy</i> , 2016, 163, 91-98.	1.8	21
28	Separation, treatment and utilization of inorganic residues of chemical pulp mills. <i>Journal of Cleaner Production</i> , 2016, 133, 953-964.	4.6	47
29	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
30	Wet grinding of CaCO <sub>3</sub> 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
31	Dissolution of sodium, aluminum and caustic compounds from bauxite residues. <i>Minerals Engineering</i> , 2015, 79, 143-151.	1.8	21
32	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
33	Prediction of pressure filtration characteristics of CaCO <sub>3</sub> suspensions ground in a vertical stirred media mill. <i>Minerals Engineering</i> , 2015, 83, 201-204.	1.8	3
34	Ozonation of p-nitrophenol at different pH values of water and the influence of radicals at acidic conditions. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 325-332.	3.3	27
35	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
36	Steam Dewatering of Filter Cakes in a Vertical Filter Press. <i>Drying Technology</i> , 2013, 31, 1160-1169.	1.7	4

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37	Use of Filter Aids to Improve the Filterability of Enzymatically Hydrolyzed Biomass Suspensions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14955-14964.	1.8	10
38	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
39	Effect of Hydrodynamics During Crystallization on Mechanical Dewatering of Salicylic Acid. <i>Drying Technology</i> , 2013, 31, 1354-1361.	1.7	3
40	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
41	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
42	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
43	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
44	Empirical Modelling of Cake Washing in a Pressure Filter. <i>Separation Science and Technology</i> , 2012, 47, 1102-1112.	1.3	9
45	Acidic dissolution of hematite: Kinetic and thermodynamic investigations with oxalic acid. <i>International Journal of Mineral Processing</i> , 2012, 110-111, 121-125.	2.6	32
46	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
47	Effect of mixing on enzymatic hydrolysis of cardboard waste: Saccharification yield and subsequent separation of the solid residue using a pressure filter. <i>Bioresource Technology</i> , 2012, 110, 405-411.	4.8	22
48	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
49	Development of testing procedure for ceramic disc filters. <i>Minerals Engineering</i> , 2011, 24, 876-885.	1.8	3
50	Acidic Dissolution of Magnetite: Experimental Study on the Effects of Acid Concentration and Temperature. <i>Clays and Clay Minerals</i> , 2011, 59, 136-146.	0.6	53
51	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
52	The effect of crystallization conditions, crystal morphology and size on pressure filtration of l-glutamic acid and an aromatic amine. <i>Separation and Purification Technology</i> , 2009, 66, 549-558.	3.9	32
53	Dynamic PCA-based MSPC charts for nucleation prediction in batch cooling crystallization processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 84, 126-133.	1.8	23
54	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 275-284.	1.4	55

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55	DRIFT-IR for quantitative characterization of polymorphic composition of sulfathiazole. <i>Analytica Chimica Acta</i> , 2005, 544, 108-117.	2.6	34
56	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
57	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
58	Influence of Water Quality on Corrosion of Multi-Oxide Engineering Ceramics. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 51-57.	0.1	0