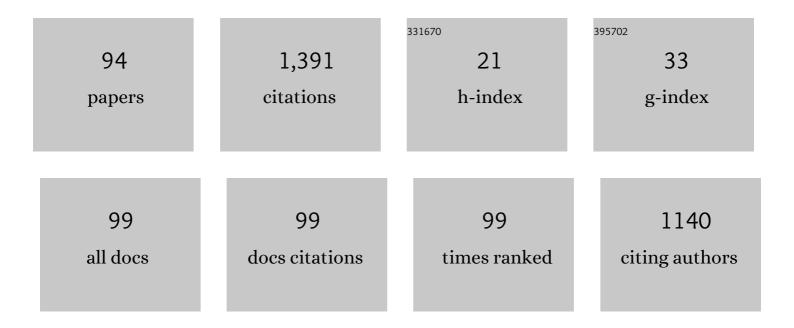
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of pre-dewatering on the success of cake washing. Separation Science and Technology, 2023, 58, 175-187.	2.5	1
2	Preparation strategy for statistically significant micrometer-sized particle systems suitable for correlative 3D imaging workflows on the example of X-ray microtomography. Powder Technology, 2022, 395, 235-242.	4.2	3
3	Influence of cell opening methods on organic solvent removal during pretreatment in lithium-ion battery recycling. Waste Management and Research, 2022, 40, 1015-1026.	3.9	7
4	A contribution to exploring the importance of surface air nucleation in froth flotation – The effects of dissolved air on graphite flotation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 633, 127866.	4.7	12
5	Decoating of Electrode Foils from EOL Lithium-Ion Batteries by Electrohydraulic Fragmentation. Metals, 2022, 12, 209.	2.3	8
6	PARROT: A Pilot Study on the Open Access Provision of Particle-Discrete Tomographic Datasets. Microscopy and Microanalysis, 2022, 28, 350-360.	0.4	5
7	Comprehensive Characterization of Shredded Lithiumâ€lon Battery Recycling Material. Chemistry - A European Journal, 2022, 28, .	3.3	8
8	Influence of Cell Opening Methods on Electrolyte Removal during Processing in Lithium-Ion Battery Recycling. Metals, 2022, 12, 663.	2.3	4
9	Review on Zigzag Air Classifier. Processes, 2022, 10, 764.	2.8	11
10	Mechanical and physical processes of battery recycling. , 2022, , 455-486.		0
11	Recycling battery casing materials. , 2022, , 349-370.		0
12	Neighborhood Relationships of Widely Distributed and Irregularly Shaped Particles in Partially Dewatered Filter Cakes. Transport in Porous Media, 2021, 138, 201-224.	2.6	1
13	Comprehensive, multidimensional and correlative particle characterization of a saxolite and talcum compound to support the understanding of complex separation processes. Microscopy and Microanalysis, 2021, 27, 934-937.	0.4	2
14	Displacement washing of filter cakes from porous particles. Separation and Purification Technology, 2021, 274, 118141.	7.9	0
15	Displacement washing of filter cakes from porous particles. Separation and Purification Technology, 2021, 274, 118129.	7.9	1
16	Electrochemical Stimulation of Water–Oil Interfaces by Nonionic–Cationic Block Copolymer Systems. Langmuir, 2021, 37, 1073-1081.	3.5	7
17	Preparation techniques for micron-sized particulate samples in X-ray microtomography. Powder Technology, 2020, 360, 989-997.	4.2	12
18	Experimental Investigations of the Depth Filtration inside Openâ€Cell Foam Filters Supported by Highâ€Resolution Computed Tomography Scanning and Poreâ€Scale Numerical Simulations. Advanced Engineering Materials, 2020, 22, 1900761.	3.5	4

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19	Self-constructed automated syringe for preparation of micron-sized particulate samples in x-ray microtomography. MethodsX, 2020, 7, 100757.	1.6	4
20	Temperature data during steam pressure filtration in combination with a water insoluble pore liquid. Data in Brief, 2020, 31, 105812.	1.0	1
21	On the Role of Hydrolyzable Metal Cations in the Adsorption of Anionic Surfactants on Negatively Charged Surfaces. Frontiers in Materials, 2020, 7, .	2.4	1
22	Evaluation of Recyclability of a WEEE Slag by Means of Integrative X-Ray Computer Tomography and SEM-Based Image Analysis. Minerals (Basel, Switzerland), 2020, 10, 309.	2.0	15
23	Efficient separation of fine coal assisted by surface nanobubbles. Separation and Purification Technology, 2020, 249, 117163.	7.9	27
24	Recycling Chain for Spent Lithium-Ion Batteries. Metals, 2020, 10, 316.	2.3	69
25	Multiscale Tomographic Analysis for Micron-Sized Particulate Samples. Microscopy and Microanalysis, 2020, 26, 676-688.	0.4	14
26	Multidimensional characterization of separation processes – Part 2: Comparability of separation efficiency. Minerals Engineering, 2020, 150, 106284.	4.3	12
27	Gaseous flow through coarse granular beds: The role of specific surface area. Powder Technology, 2020, 366, 821-831.	4.2	4
28	Corrosion of Carbon Free and Bonded Refractories for Application in Steel Ingot Casting: An Approach for Improving Steel Quality. Materials Science Forum, 2019, 959, 166-176.	0.3	2
29	Silicon Waste from the Photovoltaic Industry - A Material Source for the Next Generation Battery Technology?. Materials Science Forum, 2019, 959, 107-112.	0.3	2
30	A comparison of filtration characterisation devices for compressible suspensions using conventional filtration theory and compressional rheology. Powder Technology, 2019, 346, 49-56.	4.2	16
31	Processing and Characterization of Beads with Graded Layer Compositions Based on Zirconia and TRIP‣teel. Advanced Engineering Materials, 2019, 21, 1800615.	3.5	4
32	Stochastic Modeling of Multidimensional Particle Properties Using Parametric Copulas. Microscopy and Microanalysis, 2019, 25, 720-734.	0.4	18
33	Multidimensional characterization of separation processes – Part 1: Introducing kernel methods and entropy in the context of mineral processing using SEM-based image analysis. Minerals Engineering, 2019, 137, 78-86.	4.3	29
34	Influence of the Wetting Behavior on the Aluminum Melt Filtration. Minerals, Metals and Materials Series, 2019, , 1071-1079.	0.4	1
35	FilterkuchenwÄ <b>s</b> che makroporĶser Kieselgelpartikel. Chemie-Ingenieur-Technik, 2019, 91, 1842-1852.	0.8	5
36	Selective Separation Using Fluid-Liquid Interfaces. Materials Science Forum, 2019, 959, 113-124.	0.3	1

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37	Froth properties and entrainment in lab-scale flotation: A case of carbonaceous sedimentary phosphate ore. Chemical Engineering Research and Design, 2019, 142, 100-110.	5.6	26
38	Impact of flotation hydrodynamics on the optimization of fine-grained carbonaceous sedimentary apatite ore beneficiation. Powder Technology, 2019, 345, 223-233.	4.2	36
39	Crushing of large Li-ion battery cells. Waste Management, 2019, 85, 317-326.	7.4	61
40	Wettability of AlSi7Mg alloy on alumina, spinel, mullite and rutile and its influence on the aluminum melt filtration efficiency. Materials and Design, 2018, 150, 75-85.	7.0	27
41	Flotation study of fine grained carbonaceous sedimentary apatite ore – Challenges in process mineralogy and impact of hydrodynamics. Minerals Engineering, 2018, 121, 196-204.	4.3	52
42	Cake Filtration of Multicomponent Suspensions. Chemical Engineering and Technology, 2018, 41, 96-101.	1.5	4
43	Description of Ore Particles from X-Ray Microtomography (XMT) Images, Supported by Scanning Electron Microscope (SEM)-Based Image Analysis. Microscopy and Microanalysis, 2018, 24, 461-470.	0.4	32
44	Evaluation of Magnetic Separation Efficiency on a Cassiterite-Bearing Skarn Ore by Means of Integrative SEM-Based Image and XRF–XRD Data Analysis. Minerals (Basel, Switzerland), 2018, 8, 390.	2.0	25
45	Characterization of reticulated ceramic foams with mercury intrusion porosimetry and mercury probe atomic force microscopy. Ceramics International, 2018, 44, 22963-22975.	4.8	20
46	Measuring interactions between yeast cells and a micro-sized air bubble via atomic force microscopy. Journal of Colloid and Interface Science, 2018, 532, 689-699.	9.4	10
47	How gangue particle size can affect the recovery of ultrafine and fine particles during froth flotation. Minerals Engineering, 2017, 109, 1-9.	4.3	56
48	Impact of the Roughness of Alumina and Al <sub>2</sub> O <sub>3</sub> –C Substrates on the Adhesion Mechanisms in a Model System. Advanced Engineering Materials, 2017, 19, 1700088.	3.5	14
49	Nanobubble enhanced agglomeration of hydrophobic powders. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 530, 117-123.	4.7	50
50	Investigating the removal of particles from the air/water-interface – Modelling detachment forces using an energetic approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 215-222.	4.7	15
51	Cake Filtration of Multiphase Solidâ€Liquidâ€Liquid. Chemie-Ingenieur-Technik, 2017, 89, 1782-1787.	0.8	1
52	Influence of Wetting on Washing and Filtration Properties. Chemical Engineering and Technology, 2016, 39, 543-550.	1.5	7
53	Einfluss des Mischprozederes auf die Verfestigung von Glasgemenge. Chemie-Ingenieur-Technik, 2016, 88, 995-1001.	0.8	1
54	Zerkleinerung von polymeren Ionenaustauscherpartikeln durch Feinstmahlung. Chemie-Ingenieur-Technik, 2016, 88, 616-621.	0.8	0

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55	Modeling adhesive force distributions on highly rough surfaces. Powder Technology, 2016, 289, 88-94.	4.2	10
56	Modeling adhesive forces caused by nanobubble capillary bridging. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 509, 457-466.	4.7	13
57	A Special Issue of the International Journal of Mineral Processing honoring Prof. Dr. sc. techn. Drs. h.c. Heinrich Schubert. International Journal of Mineral Processing, 2016, 156, 1-2.	2.6	0
58	Viscosity function of a fast reactive polymerization-Aqueous solution of acrylic acid in a rheometer. Polymer Engineering and Science, 2016, 56, 874-888.	3.1	1
59	Study of nanobubbles on hydrophilic and hydrophobic alumina surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 497, 242-250.	4.7	33
60	The grinding of porous ion exchange particles. Powder Technology, 2016, 291, 14-19.	4.2	4
61	Polymerization in Sprays: Atomization and Product Design of Reactive Polymer Solutions. , 2016, , 795-841.		0
62	Wetting and its influence on the filtration ability of ceramic foam filters. Particuology, 2015, 18, 50-57.	3.6	21
63	Wetting and Adhesive Forces on Rough Surfaces – An Experimental and Theoretical Study. Procedia Engineering, 2015, 102, 45-53.	1.2	22
64	Viscous force — An important parameter for the modeling of deep bed filtration in liquid media. Powder Technology, 2015, 283, 190-198.	4.2	21
65	A review of rare earth minerals flotation: Monazite and xenotime. International Journal of Mining Science and Technology, 2015, 25, 877-883.	10.3	72
66	Process Development of a Liquid-Liquid Phase Transfer of Colloidal Particles for Production of High-Quality Organosols. , 2015, , 371-398.		0
67	Ressourcentechnologie des 21. Jahrhunderts. Chemie-Ingenieur-Technik, 2014, 86, 751-751.	0.8	0
68	Synthesis of Functionalized Magnetic Beads Using Spray Drying. Lecture Notes in Bioengineering, 2014, , 97-116.	0.4	0
69	Particle adhesion on highly rough hydrophobic surfaces: The distribution of interaction mechanisms. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 459, 166-171.	4.7	19
70	Effect of solvent exchange on the stability of sterically functionalized magnetite nanoparticles in poly(methyl methacrylate) solutions and resulting spray dried composites. Chemical Engineering Research and Design, 2014, 92, 2523-2533.	5.6	1
71	Mapping hydrophobicity combining AFM and Raman spectroscopy. Minerals Engineering, 2014, 66-68, 181-190.	4.3	18
72	Milling Result Prediction. Lecture Notes in Earth System Sciences, 2014, , 717-721.	0.6	0

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73	Application of a Particle Extraction Process at the Interface of Two Liquids in a Drop Column—Consideration of the Process Behavior and Kinetic Approach. Advances in Chemical Engineering and Science, 2014, 04, 149-160.	O.5	2
74	Liquid–liquid phase transfer of magnetite nanoparticles — Evaluation of surfactants. Powder Technology, 2013, 247, 265-269.	4.2	25
75	Impact of Wetting to the Agglomeration of Dispersed Particles in an Aqueous Medium. Advanced Engineering Materials, 2013, 15, 1299-1306.	3.5	21
76	Prediction of silo-vibrations using a modified lambdameter. , 2013, , .		3
77	Phase transfer of agglomerated nanoparticles: deagglomeration by adsorbing grafted molecules and colloidal stability in polymer solutions. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	15
78	Numerical investigation of sonochemical reactors considering the effect of inhomogeneous bubble clouds on ultrasonic wave propagation. Chemical Engineering Journal, 2012, 189-190, 364-375.	12.7	67
79	A TGA–FTIR perspective of fatty acid adsorbed on magnetite nanoparticles–Decomposition steps and magnetite reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 397, 16-23.	4.7	59
80	Magnetite core-shell nano-composites with chlorine functionality: preparation by miniemulsion polymerization and characterization. Journal of Polymer Research, 2011, 18, 79-88.	2.4	21
81	Trockene Desagglomeration von Nanopartikelagglomeraten in einer Sichtermühle. Chemie-Ingenieur-Technik, 2011, 83, 1262-1275.	0.8	Ο
82	Coagulation and stabilization of sterically functionalized magnetite nanoparticles in an organic solvent with different technical polymers. Journal of Colloid and Interface Science, 2011, 357, 292-299.	9.4	21
83	The Influence of Surface Energy on the Washing Quality of Filter Cakes. Advances in Chemical Engineering and Science, 2011, 01, 252-255.	0.5	2
84	Modular process for the flexible synthesis of magnetic beads—Process and product validation. Journal of Applied Polymer Science, 2009, 112, 2366-2373.	2.6	11
85	Liquid–liquid phase transfer of magnetite nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 348, 186-190.	4.7	39
86	A Mössbauer study of the chemical stability of iron oxide nanoparticles in PMMA and PVB beads. Journal of Magnetism and Magnetic Materials, 2008, 320, 2099-2105.	2.3	13
87	Characterization of Protein Capacity of Nanocation Exchanger Particles as Filling Material for Functional Magnetic Beads for Bioseparation Purposes. Biotechnology Progress, 2008, 24, 409-416.	2.6	21
88	Characterization of magnetic ion-exchange composites for protein separation from biosuspensions. Journal of Bioscience and Bioengineering, 2008, 105, 579-585.	2.2	31
89	Liquid-Liquid Interfacial Transport of Nanoparticles. Physical Separation in Science and Engineering, 2007, 2007, 1-7.	1.0	11
90	Interaction of liquid movement and steam condensation during steam centrifugation. International Journal of Mineral Processing, 2005, 76, 193-203.	2.6	2

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91	Scale-up of steam pressure filtration. Chemical Engineering and Processing: Process Intensification, 1999, 38, 611-619.	3.6	20
92	Hydrophilic Functionalized Bi-Layered Polymer Magnetic Core/Shell: Preparation and Characterization. Advanced Materials Research, 0, 622-623, 254-258.	0.3	1
93	Synthesis of High Performance Geopolymers by Wet Milling of Blast Furnace Slags. Materials Science Forum, 0, 959, 177-182.	0.3	4
94	Atomic Force Microscopy Investigation of the In Situâ€Formed Oxide Layer at the Interface of Al 2 O 3 â°`C/Steel Melt in Terms of Adhesion Force and Roughness in a Model System. Advanced Engineering Materials, 0, , 2100634.	3.5	0