

Thomas Leissner

List of Publications by Year in descending order

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docs citations

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times ranked

529
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the reprocessing of fine and ultrafine cassiterite from gravity tailing residues by using various flotation techniques. <i>Minerals Engineering</i> , 2016, 96-97, 94-98.	4.3	79
2	Crushing of large Li-ion battery cells. <i>Waste Management</i> , 2019, 85, 317-326.	7.4	61
3	Flotation study of fine grained carbonaceous sedimentary apatite ore – Challenges in process mineralogy and impact of hydrodynamics. <i>Minerals Engineering</i> , 2018, 121, 196-204.	4.3	52
4	Impact of flotation hydrodynamics on the optimization of fine-grained carbonaceous sedimentary apatite ore beneficiation. <i>Powder Technology</i> , 2019, 345, 223-233.	4.2	36
5	A mineral liberation study of grain boundary fracture based on measurements of the surface exposure after milling. <i>International Journal of Mineral Processing</i> , 2016, 156, 3-13.	2.6	35
6	MLA-based partition curves for magnetic separation. <i>Minerals Engineering</i> , 2016, 94, 94-103.	4.3	35
7	High voltage fragmentation of composites from secondary raw materials – Potential and limitations. <i>Waste Management</i> , 2018, 74, 123-134.	7.4	35
8	Automated mineralogy as a novel approach for the compositional and textural characterization of spent lithium-ion batteries. <i>Minerals Engineering</i> , 2021, 169, 106924.	4.3	34
9	Description of Ore Particles from X-Ray Microtomography (XMT) Images, Supported by Scanning Electron Microscope (SEM)-Based Image Analysis. <i>Microscopy and Microanalysis</i> , 2018, 24, 461-470.	0.4	32
10	3D ex-situ and in-situ X-ray CT process studies in particle technology – A perspective. <i>Advanced Powder Technology</i> , 2020, 31, 78-86.	4.1	31
11	Multidimensional characterization of separation processes – Part 1: Introducing kernel methods and entropy in the context of mineral processing using SEM-based image analysis. <i>Minerals Engineering</i> , 2019, 137, 78-86.	4.3	29
12	Evaluation of mineral processing by assessment of liberation and upgrading. <i>Minerals Engineering</i> , 2013, 53, 171-173.	4.3	28
13	Froth properties and entrainment in lab-scale flotation: A case of carbonaceous sedimentary phosphate ore. <i>Chemical Engineering Research and Design</i> , 2019, 142, 100-110.	5.6	26
14	Evaluation of Magnetic Separation Efficiency on a Cassiterite-Bearing Skarn Ore by Means of Integrative SEM-Based Image and XRF/XRD Data Analysis. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 390.	2.0	25
15	Stochastic Modeling of Multidimensional Particle Properties Using Parametric Copulas. <i>Microscopy and Microanalysis</i> , 2019, 25, 720-734.	0.4	18
16	Recovery potential of flotation tailings assessed by spatial modelling of automated mineralogy data. <i>Minerals Engineering</i> , 2018, 116, 143-151.	4.3	17
17	Optimal sensor selection for sensor-based sorting based on automated mineralogy data. <i>Journal of Cleaner Production</i> , 2019, 234, 1144-1152.	9.3	17
18	Breakage and liberation characteristics of low grade sulphide gold ore blends. <i>Minerals Engineering</i> , 2018, 115, 33-40.	4.3	15

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19	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
20	Study on the influence of solids volume fraction on filter cake structures using micro tomography. Powder Technology, 2020, 363, 286-299.	4.2	14
21	Multiscale Tomographic Analysis for Micron-Sized Particulate Samples. Microscopy and Microanalysis, 2020, 26, 676-688.	0.4	14
22	Preparation techniques for micron-sized particulate samples in X-ray microtomography. Powder Technology, 2020, 360, 989-997.	4.2	12
23	Multidimensional characterization of separation processes – Part 2: Comparability of separation efficiency. Minerals Engineering, 2020, 150, 106284.	4.3	12
24	Study of the relationship between zinnwaldite chemical composition and magnetic susceptibility. Minerals Engineering, 2015, 72, 27-30.	4.3	11
25	Computing single-particle flotation kinetics using automated mineralogy data and machine learning. Minerals Engineering, 2021, 170, 107054.	4.3	10
26	R as an environment for data mining of process mineralogy data: A case study of an industrial rougher flotation bank. Minerals Engineering, 2020, 146, 106111.	4.3	9
27	Characterizing material liberation of multi-material lightweight structures from shredding experiments and finite element simulations. Minerals Engineering, 2021, 172, 107142.	4.3	7
28	PARROT: A Pilot Study on the Open Access Provision of Particle-Discrete Tomographic Datasets. Microscopy and Microanalysis, 2022, 28, 350-360.	0.4	5
29	Processing and Characterization of Beads with Graded Layer Compositions Based on Zirconia and TRIP-Steel. Advanced Engineering Materials, 2019, 21, 1800615.	3.5	4
30	Liberation Measurements Used in Upgrading Curves. Chemie-Ingenieur-Technik, 2014, 86, 899-905.	0.8	3
31	Impact of Sodium Hexametaphosphate on the Flotation of Ultrafine Magnesite from Dolomite-Rich Desliming Tailings. Minerals (Basel, Switzerland), 2021, 11, 499.	2.0	3
32	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
33	Co-localized (colloidal probe) atomic force microscopy/Raman spectroscopy measurements for hydrophobicity characterization. Minerals Engineering, 2019, 141, 105838.	4.3	2
34	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
35	Breakage characterization of gold ore components. Minerals Engineering, 2020, 151, 106314.	4.3	1
36	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

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37	Bewertung der Magnetscheidung Lithium-haltiger Glimmer am Beispiel von Zinnwaldit. Chemie-Ingenieur-Technik, 2012, 84, 1382-1382.	0.8	0
38	Mehrdimensionale Eigenschaften von Partikelsystemen - ganzheitliche Eigenschaftsfunktion (PE). Chemie-Ingenieur-Technik, 2018, 90, 1209-1210.	0.8	0
39	Milling Result Prediction. Lecture Notes in Earth System Sciences, 2014, , 717-721.	0.6	0