

Aubrey N Mainza

List of Publications by Year in descending order

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665
citing authors

#	ARTICLE	IF	CITATIONS
1	Different perspectives of dynamics in comminution processes. Minerals Engineering, 2022, 176, 107326.	4.3	7
2	Development of a mechanistic model of granular flow on vibrating screens. Minerals Engineering, 2021, 163, 106771.	4.3	9
3	SIMULATION-DRIVEN DEVELOPMENT FOR COARSE COMMUNITION PROCESS - A CASE STUDY OF GEITA GOLD MINE, TANZANIA USING PLANTSMITH PROCESS SIMULATOR. Proceedings of the Design Society, 2021, 1, 2681-2690.	0.8	2
4	Axial Segregation of Polydisperse Granular Mixtures in Rotating Drum Flows. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 622	2.0	1
5	Study on the particle interaction in a hydrocyclone classifier with multi-component feed blend at a high solids content. Powder Technology, 2021, 393, 380-396.	4.2	14
6	Computational modelling of particle-fluid dynamics in comminution and classification: a review. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 145-156.	0.2	4
7	The Robustness of the Gray Level Co-Occurrence Matrices and X-Ray Computed Tomography Method for the Quantification of 3D Mineral Texture. Minerals (Basel, Switzerland), 2020, 10, 334.	2.0	10
8	Multiple particle tracking in PEPT using Voronoi tessellations. Chemical Engineering Science, 2019, 207, 780-789.	3.8	10
9	Asymmetric dynamics in a horizontally stirred mill using DEM. Minerals Engineering, 2019, 134, 232-240.	4.3	3
10	Geometric features of tumbling mill flows: A positron emission particle tracking investigation. Chemical Engineering Science, 2019, 206, 41-49.	3.8	6
11	Using two-way coupled DEM-SPH to model an industrial scale Stirred Media Detritor. Minerals Engineering, 2019, 137, 259-276.	4.3	19
12	Fine grinding: How mill type affects particle shape characteristics and mineral liberation. Minerals Engineering, 2017, 111, 148-157.	4.3	43
13	PGM converter matte mineral characteristics and effects on downstream processing. International Journal of Mineral Processing, 2017, 166, 89-101.	2.6	0
14	A positron emission particle tracking investigation of the scaling law governing free surface flows in tumbling mills. AIChE Journal, 2017, 63, 903-913.	3.6	7
15	Using mineralogical and particle shape analysis to investigate enhanced mineral liberation through phase boundary fracture. Powder Technology, 2016, 301, 794-804.	4.2	39
16	The shape and behaviour of a granular bed in a rotating drum using Eulerian flow fields obtained from PEPT. Chemical Engineering Science, 2016, 152, 186-198.	3.8	35
17	Testing of a new dynamic Ergun equation for transport with positron emission particle tracking. AIChE Journal, 2016, 62, 939-946.	3.6	5
18	Development of a novel methodology to determine mill power draw. International Journal of Mineral Processing, 2016, 149, 94-103.	2.6	14

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19	Auto-SEM particle shape characterisation: Investigating fine grinding of UG2 ore. Minerals Engineering, 2015, 82, 92-100.	4.3	35
20	A semi-mechanistic model of hydrocyclones â€” Developed from industrial data and inputs from CFD. International Journal of Mineral Processing, 2014, 133, 1-12.	2.6	60
21	Comparisons of PEPT derived charge features in wet milling environments with a friction-adjusted DEM model. Chemical Engineering Science, 2013, 97, 162-175.	3.8	47
22	Investigation of the effect of mineralogy as rate-limiting factors in large particle leaching. Minerals Engineering, 2013, 52, 38-51.	4.3	24
23	Ceramic Media Selection for Optimization of Energy Efficiency in IsaMillsâ„¢. Chemical Engineering and Technology, 2012, 35, 1949-1953.	1.5	2
24	CFDâ€”DEM modelling of particle flow in IsaMills â€” Comparison between simulations and PEPT measurements. Minerals Engineering, 2011, 24, 181-187.	4.3	62
25	Tracking the motion of media particles inside an IsaMillâ„¢ using PEPT. Minerals Engineering, 2011, 24, 195-204.	4.3	14
26	Measurement of shear rates in a laboratory tumbling mill. Minerals Engineering, 2011, 24, 225-229.	4.3	16
27	Towards a mechanistic model for slurry transport in tumbling mills. Minerals Engineering, 2011, 24, 230-235.	4.3	11
28	Characterising porosity of multi-component mixtures in rotary mills. Minerals Engineering, 2011, 24, 276-281.	4.3	6
29	Circulation rate modelling of mill charge using position emission particle tracking. Minerals Engineering, 2011, 24, 282-289.	4.3	6
30	Power draw estimations in experimental tumbling mills using PEPT. Minerals Engineering, 2011, 24, 319-324.	4.3	20
31	Optimisation of the secondary ball mill using an on-line ball and pulp load sensor â€” The Sensomag. Minerals Engineering, 2011, 24, 325-334.	4.3	15
32	Large particle effects in chemical/biochemical heap leach processes â€” A review. Minerals Engineering, 2011, 24, 1172-1184.	4.3	94
33	Use of X-ray computed tomography to investigate crack distribution and mineral dissemination in sphalerite ore particles. Minerals Engineering, 2011, 24, 1249-1257.	4.3	77
34	Understanding the influence of HPGR on PGM flotation behavior using mineralogy. Minerals Engineering, 2011, 24, 1370-1377.	4.3	17
35	Applying grindcurves to mill operation and optimisation. Minerals Engineering, 2009, 22, 625-632.	4.3	25
36	Quantifying the influence of classification with the 3 product cyclone on liberation and recovery of PGMs in UG2 ore. Minerals Engineering, 2008, 21, 549-558.	4.3	11

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37	Study of flow behaviour in a three-product cyclone using computational fluid dynamics. Minerals Engineering, 2006, 19, 1048-1058.	4.3	28
38	Extended grinding curves are essential to the comparison of milling performance. Minerals Engineering, 2006, 19, 1487-1494.	4.3	9
39	Differential classification of dense material in a three-product cyclone. Minerals Engineering, 2004, 17, 573-579.	4.3	28
40	Evaluating the performance of new collectors on feed to Nkana concentrator's flotation circuit. Minerals Engineering, 1999, 12, 571-577.	4.3	3
41	Effect of different collector dose rates on cobalt segregation. Minerals Engineering, 1999, 12, 1033-1040.	4.3	0