

Yosef Ghorbani

List of Publications by Year in descending order

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56
papers

1,699
citations

304743

22
h-index

302126

39
g-index

58
all docs

58
docs citations

58
times ranked

1609
citing authors

#	ARTICLE	IF	CITATIONS
1	E-waste in the international context – A review of trade flows, regulations, hazards, waste management strategies and technologies for value recovery. <i>Waste Management</i> , 2018, 82, 258-275.	7.4	335
2	Effect of Pretreatment on Leaching Primary Copper Sulfide in Acid-Chloride Media. <i>Minerals (Basel)</i> , 2019, 9, 138.	2.0	138
3	Large particle effects in chemical/biochemical heap leach processes – A review. <i>Minerals Engineering</i> , 2011, 24, 1172-1184.	4.3	94
4	Use of X-ray computed tomography to investigate crack distribution and mineral dissemination in sphalerite ore particles. <i>Minerals Engineering</i> , 2011, 24, 1249-1257.	4.3	77
5	Heap leaching technology – current state, innovations and future directions: A review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 0, .	5.0	66
6	A review of sustainable development in the Chilean mining sector: past, present and future. <i>International Journal of Mining, Reclamation and Environment</i> , 2017, 31, 137-165.	2.8	58
7	X-ray Microcomputed Tomography (µCT) for Mineral Characterization: A Review of Data Analysis Methods. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 183.	2.0	49
8	The effect of seawater based media on copper dissolution from low-grade copper ore. <i>Minerals Engineering</i> , 2015, 71, 139-145.	4.3	46
9	A comparative study on the effects of dry and wet grinding on mineral flotation separation – a review. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5004-5011.	5.8	45
10	Investigation of particles with high crack density produced by HPGR and its effect on the redistribution of the particle size fraction in heaps. <i>Minerals Engineering</i> , 2013, 43-44, 44-51.	4.3	44
11	Variation in microbial community from predominantly mesophilic to thermotolerant and moderately thermophilic species in an industrial copper heap bioleaching operation. <i>Hydrometallurgy</i> , 2014, 150, 281-289.	4.3	42
12	Modification of nano-clays with ionic liquids for the removal of Cd (II) ion from aqueous phase. <i>Applied Clay Science</i> , 2018, 158, 236-245.	5.2	34
13	Chalcopyrite dissolution using seawater-based acidic media in the presence of oxidants. <i>Hydrometallurgy</i> , 2015, 157, 325-332.	4.3	32
14	Leaching of Chalcopyrite in Acidified Nitrate Using Seawater-Based Media. <i>Minerals (Basel)</i> , 2019, 9, 222.	2.0	32
15	Integrating biometallurgical recovery of metals with biogenic synthesis of nanoparticles. <i>Chemosphere</i> , 2021, 263, 128306.	8.2	32
16	Investigation and modelling of the progression of zinc leaching from large sphalerite ore particles. <i>Hydrometallurgy</i> , 2013, 131-132, 8-23.	4.3	30
17	Application of machine learning techniques in mineral phase segmentation for X-ray microcomputed tomography (µCT) data. <i>Minerals Engineering</i> , 2019, 142, 105882.	4.3	30
18	Towards integrated geometallurgical approach: Critical review of current practices and future trends. <i>Minerals Engineering</i> , 2020, 145, 106072.	4.3	30

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19	Designing of an environmental assessment algorithm for surface mining projects. Journal of Environmental Management, 2009, 90, 2422-2435.	7.8	28
20	An experimental study of the long-term bioleaching of large sphalerite ore particles in a circulating fluid fixed-bed reactor. Hydrometallurgy, 2012, 129-130, 161-171.	4.3	26
21	The minerals industry in the era of digital transition: An energy-efficient and environmentally conscious approach. Resources Policy, 2022, 78, 102851.	9.6	25
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	Leaching manganese nodules with iron-reducing agents – A critical review. Minerals Engineering, 2021, 163, 106748.	4.3	24
24	Valorisation of mine waste - Part I: Characteristics of, and sampling methodology for, consolidated mineralised tailings by using Witwatersrand gold mines (South Africa) as an example. Journal of Environmental Management, 2021, 295, 113013.	7.8	24
25	Evaluation and comparison of different machine-learning methods to integrate sparse process data into a spatial model in geometallurgy. Minerals Engineering, 2019, 134, 156-165.	4.3	23
26	A Process Mineralogy Approach to Gravity Concentration of Tantalum Bearing Minerals. Minerals (Basel, Switzerland), 2017, 7, 194.	2.0	21
27	A process mineralogy approach to optimize molybdenite flotation in copper – molybdenum processing plants. Minerals Engineering, 2020, 157, 106557.	4.3	21
28	Development and experimental validation of a texture-based 3D liberation model. Minerals Engineering, 2021, 164, 106828.	4.3	21
29	Leaching behaviour and the solution consumption of uranium–vanadium ore in alkali carbonate–bicarbonate column leaching. Hydrometallurgy, 2016, 161, 127-137.	4.3	20
30	Process mineralogy as a key factor affecting the flotation kinetics of copper sulfide minerals. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 430-439.	4.9	19
31	Soil salinity mapping by remote sensing south of Urmia Lake, Iran. Geoderma Regional, 2020, 22, e00317.	2.1	19
32	Use of Seawater/Brine and Caliche™s Salts as Clean and Environmentally Friendly Sources of Chloride and Nitrate Ions for Chalcopyrite Concentrate Leaching. Minerals (Basel, Switzerland), 2020, 10, 477.	2.0	17
33	Narrowing the gap between local standards and global best practices in bauxite mining: A case study in Malaysia. Resources Policy, 2020, 66, 101636.	9.6	17
34	Geometallurgical Approach for Implications of Ore Blending on Cyanide Leaching and Adsorption Behavior of Witwatersrand Gold Ores, South Africa. Natural Resources Research, 2020, 29, 1007-1030.	4.7	16
35	Isolation and removal of cyanide from tailing dams in gold processing plant using natural bitumen. Journal of Environmental Management, 2020, 262, 110286.	7.8	16
36	Valorisation of mine waste - Part II: Resource evaluation for consolidated and mineralised mine waste using the Central African Copperbelt as an example. Journal of Environmental Management, 2021, 299, 113553.	7.8	14

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37	Combined Effect of Operating Parameters on Separation Efficiency and Kinetics of Copper Flotation. Mining, Metallurgy and Exploration, 2019, 36, 409-421.	0.8	13
38	Cupric and Chloride Ions: Leaching of Chalcopyrite Concentrate with Low Chloride Concentration Media. Minerals (Basel, Switzerland), 2019, 9, 639.	2.0	12
39	Textural Quantification and Classification of Drill Cores for Geometallurgy: Moving Toward 3D with X-ray Microcomputed Tomography (ÅµCT). Natural Resources Research, 2020, 29, 3547-3565.	4.7	11
40	Simulation-based training and learning: A review on technology-enhanced education for the minerals industry. Minerals Engineering, 2022, 175, 107272.	4.3	10
41	Design and Evaluation of an Expert System in a Crushing Plant. Minerals (Basel, Switzerland), 2018, 8, 469.	2.0	8
42	Gangues and Clays Minerals as Rate-Limiting Factors in Copper Heap Leaching: A Review. Metals, 2021, 11, 1539.	2.3	7
43	Ore mineral characteristics as rate-limiting factors in sphalerite flotation: Comparison of the mineral chemistry (iron and manganese content), grain size, and liberation. Minerals Engineering, 2022, 185, 107705.	4.3	7
44	The beneficiation of tailing of coal preparation plant by heavy-medium cyclone. International Journal of Coal Science and Technology, 2018, 5, 374-384.	6.0	6
45	Systematic Framework toward a Highly Reliable Approach in Metal Accounting. Mineral Processing and Extractive Metallurgy Review, 2022, 43, 664-678.	5.0	6
46	Joule Heating Effects in Electrokinetic Remediation: Role of Non-Uniform Soil Environments: Temperature Profile Behavior and Hydrodynamics. Environments - MDPI, 2018, 5, 92.	3.3	5
47	Repurposing legacy metallurgical data Part I: A move toward dry laboratories and data bank. Minerals Engineering, 2020, 159, 106646.	4.3	5
48	Constraints on the Geometry and Gold Distribution in the Black Reef Formation of South Africa Using 3D Reflection Seismic Data and Micro-X-ray Computed Tomography. Natural Resources Research, 2022, 31, 1225-1244.	4.7	5
49	Repurposing legacy metallurgical data part II: Case studies of plant performance optimisation and process simulation. Minerals Engineering, 2021, 160, 106667.	4.3	4
50	Framework components for data-centric dry laboratories in the minerals industry: A path to science-and-technology-led innovation. The Extractive Industries and Society, 2022, 10, 101089.	1.2	4
51	A geometallurgical study of flotation performance in supergene and hypogene zones of Sungun copper deposit. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2021, 130, 126-135.	0.2	2
52	Oxidation-reduction effects in the flotation of copper sulfide minerals and molybdenite "A proof of concept at industrial scale. Minerals Engineering, 2022, 180, 107505.	4.3	2
53	3D Ore Characterization as a Paradigm Shift for Process Design and Simulation in Mineral Processing. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2021, 166, 384-389.	1.0	1
54	Development of surface reaction of nano-colloid minerals using novel ionic liquids and assessing their removal ability for Pb(II) and Hg(II). Arabian Journal of Geosciences, 2020, 13, 1.	1.3	1

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55	The Order of Kinetic Models, Rate Constant Distribution, and Maximum Combustible Recovery in Gilsonite Flotation. Mining, Metallurgy and Exploration, 2019, 36, 1101-1114.	0.8	0
56	The Evaluation of Starch-Based Flocculant on the Thickener Operation in the Molybdenum Processing Plant and Competency of Molybdenite Flotation. Mining, Metallurgy and Exploration, 0, , 1.	0.8	0