

Mehdi Irannajad

List of Publications by Year in descending order

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84
papers

2,395
citations

196777

29
h-index

263392

45
g-index

94
all docs

94
docs citations

94
times ranked

1807
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of froth surface monitoring as an aid for grade and recovery prediction of flotation process. Part B: Texture and dynamic features. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 7812-7834.	1.2	6
2	Sulfur content reduction of iron concentrate by reverse flotation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 9552-9568.	1.2	5
3	A comprehensive review of froth surface monitoring as an aid for grade and recovery prediction of flotation process. Part A: structural features. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 2587-2605.	1.2	6
4	Roadmap for recycling of germanium from various resources: reviews on recent developments and feasibility views. Environmental Science and Pollution Research, 2022, 29, 48126-48151.	2.7	13
5	Removal of Heavy Metals from Polluted Solutions by Zeolitic Adsorbents: a Review. Environmental Processes, 2021, 8, 7-35.	1.7	56
6	Thermodynamic and kinetic studies of heavy metal adsorption by modified nano-zeolite. Geosystem Engineering, 2021, 24, 101-113.	0.7	3
7	Surface modification of ilmenite and its accompanied gangue minerals by thermal pretreatment: Application in flotation process. Transactions of Nonferrous Metals Society of China, 2021, 31, 2836-2851.	1.7	6
8	Fractal dimension of crushing products: effects of feed size distribution and feed rate. Particulate Science and Technology, 2021, 39, 877-886.	1.1	4
9	New Solvent Extraction Process of Nickel and Copper by D2EHPA in the Presence of Carboxylates. Transactions of the Indian Institute of Metals, 2020, 73, 1053-1063.	0.7	2
10	Reagent adsorption on modified mineral surfaces: isotherm, kinetic and thermodynamic aspects. Journal of Molecular Liquids, 2019, 291, 111311.	2.3	12
11	Germanium transport across supported liquid membrane with Cyanex 923: Mathematical modeling. Transactions of Nonferrous Metals Society of China, 2019, 29, 1956-1966.	1.7	4
12	Non-Dispersive Extraction of Ge(IV) from Aqueous Solutions by Cyanex 923: Transport and Modeling Studies. Metals, 2019, 9, 676.	1.0	6
13	Effect of surface dissolution by oxalic acid on flotation behavior of minerals. Journal of Materials Research and Technology, 2019, 8, 2336-2349.	2.6	24
14	Selective separation of Germanium(IV) from simulated industrial leachates containing heavy metals by non-dispersive ionic extraction. Minerals Engineering, 2019, 137, 344-353.	1.8	12
15	Removal of ferricyanide ions from aqueous solutions using modified red mud with cetyl trimethylammonium bromide. Environmental Earth Sciences, 2019, 78, 1.	1.3	0
16	Surface dissolution-assisted mineral flotation: A review. Journal of Environmental Chemical Engineering, 2019, 7, 103050.	3.3	45
17	Effect of surface dissolution on kinetic parameters in flotation of ilmenite from different gangue minerals. Transactions of Nonferrous Metals Society of China, 2019, 29, 2615-2626.	1.7	11
18	Investigations on Bioleaching of Copper and Zinc Oxide Ores. Transactions of the Indian Institute of Metals, 2019, 72, 609-611.	0.7	6

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19	Non-dispersive selective extraction of germanium from fly ash leachates using membrane-based processes. <i>Separation Science and Technology</i> , 2019, 54, 2879-2894.	1.3	7
20	Investigation of effective operating parameters on carrying capacity in column flotation of copper sulfide minerals. <i>Particulate Science and Technology</i> , 2019, 37, 677-684.	1.1	5
21	Prediction of removal percentage and adsorption capacity of activated red mud for removal of cyanide by artificial neural network. <i>Geosystem Engineering</i> , 2018, 21, 273-281.	0.7	3
22	Characterization studies of red mud modification processes as adsorbent for enhancing ferricyanide removal. <i>Journal of Environmental Management</i> , 2018, 206, 266-275.	3.8	63
23	Reagents types in flotation of iron oxide minerals: A review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2018, 39, 89-124.	2.6	81
24	Mathematical modeling for facilitated transport of Ge(IV) through supported liquid membrane containing Alamine 336. <i>Chemical Papers</i> , 2018, 72, 955-970.	1.0	12
25	Permeation and modeling studies on Ge(IV) facilitated transport using trioctylamine through supported liquid membrane. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 53-60.	1.2	14
26	Recovery of germanium from leach solutions of fly ash using solvent extraction with various extractants. <i>Hydrometallurgy</i> , 2018, 175, 164-169.	1.8	50
27	Solvent Extraction of Copper Using TBP, D2EHPA and MIBK. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 605-611.	0.2	7
28	Mathematical modeling on non-dispersive extraction of germanium from aqueous solutions using Aliquat 336. <i>Water Science and Technology</i> , 2018, 78, 2489-2499.	1.2	4
29	Equilibrium and kinetic studies of ferricyanide adsorption from aqueous solution by activated red mud. <i>Journal of Environmental Management</i> , 2018, 227, 277-285.	3.8	18
30	Evaluation of column flotation froth behavior by image analysis: effects of operational factors in desulfurization of iron ore concentrate. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2286-2306.	1.2	11
31	Sulphur removal of iron ore tailings by flotation. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 1755-1763.	1.3	18
32	Removal of Co^{2+} , Ni^{2+} , and Pb^{2+} by Manganese Oxide-Coated Zeolite: Equilibrium, Thermodynamics, and Kinetics Studies. <i>Clays and Clay Minerals</i> , 2017, 65, 52-62.	0.6	32
33	Microwave irradiation consequences on chemical reagent consumption in ilmenite flotation. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2017, 51, 93-105.	0.4	4
34	Removal of Ni and Cd ions from aqueous solution using iron dust-zeolite composite: Analysis by thermodynamic, kinetic and isotherm studies. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 318-326.	1.3	18
35	Effective factors and kinetics study of zinc ion removal from synthetic wastewater by ion flotation. <i>Separation Science and Technology</i> , 2017, 52, 892-902.	1.3	28
36	Effects of sodium carbonate and calcium chloride on calcite depression in cationic flotation of pyrolusite. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 1831-1840.	1.7	11

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37	Comparative studies of two cationic collectors in the flotation of pyrolusite and calcite. International Journal of Mineral Processing, 2017, 167, 103-112.	2.6	8
38	Effect of acid surface dissolution pretreatment on the selective flotation of ilmenite from olivine and pyroxene. International Journal of Mineral Processing, 2017, 167, 49-60.	2.6	36
39	Estimation of selectivity index and separation efficiency of copper flotation process using ANN model. Geosystem Engineering, 2017, 20, 41-50.	0.7	19
40	Development of kinetic and equilibrium models for removal of Cd^{2+} and Zn^{2+} ions from aqueous solutions by clinoptilolite. Environmental Progress and Sustainable Energy, 2016, 35, 633-641.	1.3	9
41	Modification of ilmenite surface properties by superficial dissolution method. Minerals Engineering, 2016, 92, 160-167.	1.8	54
42	Kinetic, thermodynamic and equilibrium studies on the removal of copper ions from aqueous solutions by natural and modified clinoptilolites. Korean Journal of Chemical Engineering, 2016, 33, 1629-1639.	1.2	8
43	Optimization of ilmenite flotation process in the presence of microwave irradiation. Russian Journal of Applied Chemistry, 2016, 89, 1328-1335.	0.1	1
44	Heavy metals adsorption by nanozeolites: effect of sodium hexametaphosphate. Environmental Earth Sciences, 2016, 75, 1.	1.3	7
45	Flotation column performance optimisation based on imperialist competitive algorithm. International Journal of Mining and Mineral Engineering, 2016, 7, 1.	0.1	5
46	Comparison of microwave irradiation and oxidation roasting as pretreatment methods for modification of ilmenite physicochemical properties. Journal of Industrial and Engineering Chemistry, 2016, 33, 59-72.	2.9	34
47	Effect of crystal chemistry and surface properties on ilmenite flotation behavior. International Journal of Mineral Processing, 2015, 137, 71-81.	2.6	59
48	Numerical simulation of high voltage electric pulse comminution of phosphate ore. International Journal of Mining Science and Technology, 2015, 25, 473-478.	4.6	27
49	Application and comparison of RNN, RBFNN and MNLN approaches on prediction of flotation column performance. International Journal of Mining Science and Technology, 2015, 25, 983-990.	4.6	13
50	Ion flotation for removal of Ni(II) and Zn(II) ions from wastewaters. International Journal of Mineral Processing, 2015, 143, 131-137.	2.6	67
51	Improvement in estimation of soil water retention using fractal parameters and multiobjective group method of data handling. Archives of Agronomy and Soil Science, 2015, 61, 257-273.	1.3	14
52	Chemical and mineralogical composition of ilmenite: Effects on physical and surface properties. Minerals Engineering, 2015, 70, 64-76.	1.8	39
53	Evaluation of pyrolusite flotation behavior using a cationic collector. Journal of Mining Science, 2014, 50, 982-993.	0.1	11
54	A review of zinc oxide mineral beneficiation using flotation method. Advances in Colloid and Interface Science, 2014, 206, 68-78.	7.0	176

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55	Investigation of the influence of acetate ions on cadmium extraction with D2EHPA. <i>Hydrometallurgy</i> , 2014, 144-145, 129-132.	1.8	11
56	Smithsonite Flotation from Zinc Oxide Ore using Alkyl Amine Acetate Collectors. <i>Separation Science and Technology</i> , 2014, 49, 445-457.	1.3	47
57	Investigation on pre-weakening and crushing of phosphate ore using high voltage electric pulses. <i>Advanced Powder Technology</i> , 2014, 25, 1672-1678.	2.0	39
58	Influence of microwave irradiation on ilmenite surface properties. <i>Applied Surface Science</i> , 2014, 311, 27-32.	3.1	44
59	Influence of microwave irradiation on ilmenite flotation behavior in the presence of different gangue minerals. <i>Separation and Purification Technology</i> , 2014, 132, 401-412.	3.9	67
60	OPTIMIZATION OF CADMIUM DISSOLUTION FROM A HAZARDOUS WASTE BY STATISTICAL DESIGN OF EXPERIMENTS. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2963-2970.	0.2	6
61	Effects of mineralogical and textural characteristics of ilmenite concentrate on synthetic rutile production. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3865-3876.	0.6	19
62	Improving water content estimations using penetration resistance and principal component analysis. <i>Soil and Tillage Research</i> , 2013, 129, 83-92.	2.6	14
63	Effect of chemical composition and crystal chemistry on the zeta potential of ilmenite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 428, 111-119.	2.3	58
64	Solvent extraction recovery and separation of cadmium and copper from sulphate solution. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 1269-1274.	3.3	30
65	Bioleaching of copper oxide ore by <i>Pseudomonas aeruginosa</i> . <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 1130-1133.	2.4	15
66	Combination of artificial neural networks and fractal theory to predict soil water retention curve. <i>Computers and Electronics in Agriculture</i> , 2013, 92, 92-103.	3.7	33
67	Leaching kinetics of nickel extraction from hazardous waste by sulphuric acid and optimization dissolution conditions. <i>Chemical Engineering Research and Design</i> , 2013, 91, 325-331.	2.7	82
68	Process optimization of nickel extraction from hazardous waste. <i>Archives of Environmental Protection</i> , 2012, 38, 29-40.	1.1	0
69	Recycling of hazardous waste as a new resource for nickel extraction. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 1569-1576.	1.2	4
70	Selective Sulphide Precipitation of Heavy Metals from Acidic Polymetallic Aqueous Solution by Thioacetamide. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 954-963.	1.8	86
71	Flotation of zinc oxide ores by cationic and mixed collectors. <i>Minerals Engineering</i> , 2012, 36-38, 331-334.	1.8	34
72	Investigation on leaching of malachite by citric acid. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 782-786.	2.4	34

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73	Role of dissolved mineral species in selective flotation of smithsonite from quartz using oleate as collector. International Journal of Mineral Processing, 2012, 114-117, 40-47.	2.6	75
74	Leaching behavior of cadmium from hazardous waste. Separation and Purification Technology, 2012, 86, 9-18.	3.9	36
75	Influence of important factors on flotation of zinc oxide mineral using cationic, anionic and mixed (cationic/anionic) collectors. Minerals Engineering, 2011, 24, 1402-1408.	1.8	108
76	A review of the beneficiation of calcareous phosphate ores using organic acid leaching. Hydrometallurgy, 2010, 103, 96-107.	1.8	105
77	Estimating the discount rate for projects of a mining complex. International Journal of Mining and Mineral Engineering, 2010, 2, 277.	0.1	3
78	Tailings Management and Leaching Kinetics in Iron Removal from Kaolin Washing Plants Tailings. Separation Science and Technology, 2010, 45, 427-432.	1.3	2
79	The effect of reagents on selective flotation of smithsonite and calcite-quartz. Minerals Engineering, 2009, 22, 766-771.	1.8	132
80	Selective leaching kinetics of low-grade calcareous phosphate ore in acetic acid. Hydrometallurgy, 2009, 95, 341-345.	1.8	57
81	The Structural Imaging in Offshore Area of Strait of Hormuz Based on 3D-Seismic Data. Journal of Applied Sciences, 2008, 8, 2725-2731.	0.1	3
82	Spreadsheet-based simulation of closed ball milling circuits. Minerals Engineering, 2006, 19, 1495-1504.	1.8	9
83	An approach of the whiteness quantification of crushed and floated talc concentrate. Powder Technology, 1999, 105, 106-112.	2.1	16
84	Modification of natural zeolite for Cu removal from waste waters. Desalination and Water Treatment, 0, , 1-8.	1.0	4