Ilhwan Park

List of Publications by Year
in descending order

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Version: 2024-02-01

52 papers	2,256 citations	257450 24 h-index	214800 47 g-index
53 all docs	53 docs citations	53 times ranked	1221 citing authors

#	Article	IF	Citations
1	A simple and efficient recovery technique for gold ions from ammonium thiosulfate medium by galvanic interactions of zero-valent aluminum and activated carbon: A parametric and mechanistic study of cementation. Hydrometallurgy, 2022, 208, 105815.	4.3	15
2	Advances in Selective Flotation and Leaching Process in Metallurgy. Metals, 2022, 12, 144.	2.3	2
3	A Kinetic Study on Enhanced Cementation of Gold Ions by Galvanic Interactions between Aluminum (Al) as an Electron Donor and Activated Carbon (AC) as an Electron Mediator in Ammonium Thiosulfate System. Minerals (Basel, Switzerland), 2022, 12, 91.	2.0	6
4	Recovery of Rare Earth Metals (REMs) from Nickel Metal Hydride Batteries of Electric Vehicles. Minerals (Basel, Switzerland), 2022, 12, 34.	2.0	14
5	Alkaline Leaching and Concurrent Cementation of Dissolved Pb and Zn from Zinc Plant Leach Residues. Minerals (Basel, Switzerland), 2022, 12, 393.	2.0	5
6	Heterogenous carrier flotation technique for recovering finely ground chalcopyrite particles using coarse pyrite particles as a carrier. Minerals Engineering, 2022, 180, 107518.	4.3	10
7	The Challenges and Prospects of Recovering Fine Copper Sulfides from Tailings Using Different Flotation Techniques: A Review. Minerals (Basel, Switzerland), 2022, 12, 586.	2.0	11
8	Geochemical audit of a historical tailings storage facility in Japan: Acid mine drainage formation, zinc migration and mitigation strategies. Journal of Hazardous Materials, 2022, 438, 129453.	12.4	25
9	Development of a Sustainable Process for Complex Sulfide Ores Containing Anglesite: Effect of Anglesite on Sphalerite Floatability, Enhanced Depression of Sphalerite by Extracting Anglesite, and Recovery of Extracted Pb2+ as Zero-Valent Pb by Cementation Using Zero-Valent Fe. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Ove	2.0	4
10	Flotation of Seafloor Massive Sulfide Ores: Combination of Surface Cleaning and Deactivation of Lead-Activated Sphalerite to Improve the Separation Efficiency of Chalcopyrite and Sphalerite. Metals, 2021, 11, 253.	2.3	12
11	Enhanced Cementation of Co2+ and Ni2+ from Sulfate and Chloride Solutions Using Aluminum as an Electron Donor and Conductive Particles as an Electron Pathway. Metals, 2021, 11, 248.	2.3	8
12	Effects of coarse chalcopyrite on flotation behavior of fine chalcopyrite. Minerals Engineering, 2021, 163, 106776.	4.3	20
13	Flotation Separation of Chalcopyrite and Molybdenite Assisted by Microencapsulation Using Ferrous and Phosphate Ions: Part II. Flotation. Metals, 2021, 11, 439.	2.3	10
14	Suppression of arsenopyrite oxidation by microencapsulation using ferric-catecholate complexes and phosphate. Chemosphere, 2021, 269, 129413.	8.2	38
15	Synthesis and characterization of coal fly ash and palm oil fuel ash modified artisanal and small-scale gold mine (ASGM) tailings based geopolymer using sugar mill lime sludge as Ca-based activator. Heliyon, 2021, 7, e06654.	3.2	49
16	Enhanced cementation of Cd2+, Co2+, Ni2+, and Zn2+ on Al from sulfate solutions by activated carbon addition. Hydrometallurgy, 2021, 201, 105580.	4.3	18
17	Development of a restraining wall and screw-extractor discharge system for continuous jig separation of mixed plastics. Minerals Engineering, 2021, 168, 106918.	4.3	9
18	Copper and critical metals production from porphyry ores and E-wastes: A review of resource availability, processing/recycling challenges, socio-environmental aspects, and sustainability issues. Resources, Conservation and Recycling, 2021, 170, 105610.	10.8	144

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19	Enhanced pyrite passivation by carrier-microencapsulation using Fe-catechol and Ti-catechol complexes. Journal of Hazardous Materials, 2021, 416, 126089.	12.4	28
20	The Effects of Coexisting Copper, Iron, Cobalt, Nickel, and Zinc Ions on Gold Recovery by Enhanced Cementation via Galvanic Interactions between Zero-Valent Aluminum and Activated Carbon in Ammonium Thiosulfate Systems. Metals, 2021, 11, 1352.	2.3	10
21	Agglomeration-flotation of finely ground chalcopyrite using surfactant-stabilized oil emulsions: Effects of co-existing minerals and ions. Minerals Engineering, 2021, 171, 107076.	4.3	19
22	A novel arsenic immobilization strategy via a two-step process: Arsenic concentration from dilute solution using schwertmannite and immobilization in Caâ€“Feâ€“AsO4 compounds. Journal of Environmental Management, 2021, 295, 113052.	7.8	19
23	Repurposing of aluminum scrap into magnetic Al0/ZVI bimetallic materials: Two-stage mechanical-chemical synthesis and characterization of products. Journal of Cleaner Production, 2021, 317, 128285.	9.3	20
24	Simultaneous extraction and recovery of lead using citrate and micro-scale zero-valent iron for decontamination of polluted shooting range soils. Environmental Advances, 2021, 5, 100115.	4.8	11
25	Addition of Fe3O4 as electron mediator for enhanced cementation of Cd2+ and Zn2+ on aluminum powder from sulfate solutions and magnetic separation to concentrate cemented metals from cementation products. Journal of Environmental Chemical Engineering, 2021, 9, 106699.	6.7	6
26	Development of Hydrometallurgical Process for Recovery of Rare Earth Metals (Nd, Pr, and Dy) from Nd-Fe-B Magnets. Metals, 2021, 11, 1987.	2.3	11
27	Beneficiation of Low-Grade Rare Earth Ore from Khalzan Buregtei Deposit (Mongolia) by Magnetic Separation. Minerals (Basel, Switzerland), 2021, 11, 1432.	2.0	20
28	Ammonium thiosulfate extraction of gold from printed circuit boards (PCBs) of end-of-life mobile phones and its recovery from pregnant leach solution by cementation. Hydrometallurgy, 2020, 191, 105214.	4.3	62
29	Enhanced cementation of gold via galvanic interactions using activated carbon and zero-valent aluminum: A novel approach to recover gold ions from ammonium thiosulfate medium. Hydrometallurgy, 2020, 191, 105165.	4.3	42
30	A Review of Recent Advances in Depression Techniques for Flotation Separation of Cuâ€“Mo Sulfides in Porphyry Copper Deposits. Metals, 2020, 10, 1269.	2.3	34
31	Agglomerationâ€“Flotation of Finely Ground Chalcopyrite Using Emulsified Oil Stabilized by Emulsifiers: Implications for Porphyry Copper Ore Flotation. Metals, 2020, 10, 912.	2.3	22
32	Flotation Separation of Chalcopyrite and Molybdenite Assisted by Microencapsulation Using Ferrous and Phosphate Ions: Part I. Selective Coating Formation. Metals, 2020, 10, 1667.	2.3	13
33	Redox potential-dependent chalcopyrite leaching in acidic ferric chloride solutions: Leaching experiments. Hydrometallurgy, 2020, 194, 105299.	4.3	21
34	Detoxification of lead-bearing zinc plant leach residues from Kabwe, Zambia by coupled extraction-cementation method. Journal of Environmental Chemical Engineering, 2020, 8, 104197.	6.7	49
35	Carrier-microencapsulation of arsenopyrite using Al-catecholate complex: nature of oxidation products, effects on anodic and cathodic reactions, and coating stability under simulated weathering conditions. Heliyon, 2020, 6, e03189.	3.2	50
36	Recovery of Lead and Zinc from Zinc Plant Leach Residues by Concurrent Dissolution-Cementation Using Zero-Valent Aluminum in Chloride Medium. Metals, 2020, 10, 531.	2.3	43

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37	Agglomeration-Flotation of Finely Ground Chalcopyrite and Quartz: Effects of Agitation Strength during Agglomeration Using Emulsified Oil on Chalcopyrite. Minerals (Basel, Switzerland), 2020, 10, 380.	2.0	26
38	Depression of lead-activated sphalerite by pyrite via galvanic interactions: Implications to the selective flotation of complex sulfide ores. Minerals Engineering, 2020, 152, 106367.	4.3	59
39	Kinetic Analysis for Agglomeration-Flotation of Finely Ground Chalcopyrite: Comparison of First Order Kinetic Model and Experimental Results. Materials Transactions, 2020, 61, 1940-1948.	1.2	21
40	Improvement of flotation and suppression of pyrite oxidation using phosphate-enhanced galvanic microencapsulation (GME) in a ball mill with steel ball media. Minerals Engineering, 2019, 143, 105931.	4.3	27
41	Carrier-microencapsulation using Al-catecholate complex to suppress arsenopyrite oxidation: Evaluation of the coating stability under simulated weathering conditions. MATEC Web of Conferences, 2019, 268, 06002.	0.2	2
42	A physical separation scheme to improve ammonium thiosulfate leaching of gold by separation of base metals in crushed mobile phones. Minerals Engineering, 2019, 138, 168-177.	4.3	49
43	Formation of surface protective coatings on arsenopyrite using Al-catecholate complex and its mode of inhibition of arsenopyrite oxidation. MATEC Web of Conferences, 2019, 268, 06015.	0.2	1
44	A review of recent strategies for acid mine drainage prevention and mine tailings recycling. Chemosphere, 2019, 219, 588-606.	8.2	429
45	Suppression of the release of arsenic from arsenopyrite by carrier-microencapsulation using Ti-catechol complex. Journal of Hazardous Materials, 2018, 344, 322-332.	12.4	65
46	Interference of coexisting copper and aluminum on the ammonium thiosulfate leaching of gold from printed circuit boards of waste mobile phones. Waste Management, 2018, 81, 148-156.	7.4	48
47	Gold recovery from shredder light fraction of E-waste recycling plant by flotation-ammonium thiosulfate leaching. Waste Management, 2018, 77, 195-202.	7.4	70
48	Arsenic, selenium, boron, lead, cadmium, copper, and zinc in naturally contaminated rocks: A review of their sources, modes of enrichment, mechanisms of release, and mitigation strategies. Science of the Total Environment, 2018, 645, 1522-1553.	8.0	321
49	Simultaneous suppression of acid mine drainage formation and arsenic release by Carrier-microencapsulation using aluminum-catecholate complexes. Chemosphere, 2018, 205, 414-425.	8.2	72
50	Simultaneous leaching of arsenite, arsenate, selenite and selenate, and their migration in tunnel-excavated sedimentary rocks: II. Kinetic and reactive transport modeling. Chemosphere, 2017, 188, 444-454.	8.2	60
51	Simultaneous leaching of arsenite, arsenate, selenite and selenate, and their migration in tunnel-excavated sedimentary rocks: I. Column experiments under intermittent and unsaturated flow. Chemosphere, 2017, 186, 558-569.	8.2	86
52	The Effect of Grinding and Roasting Conditions on the Selective Leaching of Nd and Dy from NdFeB Magnet Scraps. Metals, 2015, 5, 1306-1314.	2.3	39