

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
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214800

47
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53
all docs

53
docs citations

53
times ranked

1221
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of recent strategies for acid mine drainage prevention and mine tailings recycling. <i>Chemosphere</i> , 2019, 219, 588-606.	8.2	429
2	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. <i>Science of the Total Environment</i> , 2018, 645, 1522-1553.	8.0	321
3	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. <i>Resources, Conservation and Recycling</i> , 2021, 170, 105610.	10.8	144
4	Simultaneous leaching of arsenite, arsenate, selenite and selenate, and their migration in tunnel-excavated sedimentary rocks: I. Column experiments under intermittent and unsaturated flow. <i>Chemosphere</i> , 2017, 186, 558-569.	8.2	86
5	Simultaneous suppression of acid mine drainage formation and arsenic release by Carrier-microencapsulation using aluminum-catechol complexes. <i>Chemosphere</i> , 2018, 205, 414-425.	8.2	72
6	Gold recovery from shredder light fraction of E-waste recycling plant by flotation-ammonium thiosulfate leaching. <i>Waste Management</i> , 2018, 77, 195-202.	7.4	70
7	Suppression of the release of arsenic from arsenopyrite by carrier-microencapsulation using Ti-catechol complex. <i>Journal of Hazardous Materials</i> , 2018, 344, 322-332.	12.4	65
8	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. <i>Hydrometallurgy</i> , 2020, 191, 105214.	4.3	62
9	Simultaneous leaching of arsenite, arsenate, selenite and selenate, and their migration in tunnel-excavated sedimentary rocks: II. Kinetic and reactive transport modeling. <i>Chemosphere</i> , 2017, 188, 444-454.	8.2	60
10	Depression of lead-activated sphalerite by pyrite via galvanic interactions: Implications to the selective flotation of complex sulfide ores. <i>Minerals Engineering</i> , 2020, 152, 106367.	4.3	59
11	Carrier-microencapsulation of arsenopyrite using Al-catechol complex: nature of oxidation products, effects on anodic and cathodic reactions, and coating stability under simulated weathering conditions. <i>Heliyon</i> , 2020, 6, e03189.	3.2	50
12	A physical separation scheme to improve ammonium thiosulfate leaching of gold by separation of base metals in crushed mobile phones. <i>Minerals Engineering</i> , 2019, 138, 168-177.	4.3	49
13	Detoxification of lead-bearing zinc plant leach residues from Kabwe, Zambia by coupled extraction-cementation method. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104197.	6.7	49
14	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. <i>Heliyon</i> , 2021, 7, e06654.	3.2	49
15	Interference of coexisting copper and aluminum on the ammonium thiosulfate leaching of gold from printed circuit boards of waste mobile phones. <i>Waste Management</i> , 2018, 81, 148-156.	7.4	48
16	Recovery of Lead and Zinc from Zinc Plant Leach Residues by Concurrent Dissolution-Cementation Using Zero-Valent Aluminum in Chloride Medium. <i>Metals</i> , 2020, 10, 531.	2.3	43
17	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. <i>Hydrometallurgy</i> , 2020, 191, 105165.	4.3	42
18	The Effect of Grinding and Roasting Conditions on the Selective Leaching of Nd and Dy from NdFeB Magnet Scraps. <i>Metals</i> , 2015, 5, 1306-1314.	2.3	39

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19	Suppression of arsenopyrite oxidation by microencapsulation using ferric-catecholate complexes and phosphate. <i>Chemosphere</i> , 2021, 269, 129413.	8.2	38
20	A Review of Recent Advances in Depression Techniques for Flotation Separation of Cu–Mo Sulfides in Porphyry Copper Deposits. <i>Metals</i> , 2020, 10, 1269.	2.3	34
21	Enhanced pyrite passivation by carrier-microencapsulation using Fe-catechol and Ti-catechol complexes. <i>Journal of Hazardous Materials</i> , 2021, 416, 126089.	12.4	28
22	Improvement of flotation and suppression of pyrite oxidation using phosphate-enhanced galvanic microencapsulation (GME) in a ball mill with steel ball media. <i>Minerals Engineering</i> , 2019, 143, 105931.	4.3	27
23	Agglomeration-Flotation of Finely Ground Chalcopyrite and Quartz: Effects of Agitation Strength during Agglomeration Using Emulsified Oil on Chalcopyrite. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 380.	2.0	26
24	Geochemical audit of a historical tailings storage facility in Japan: Acid mine drainage formation, zinc migration and mitigation strategies. <i>Journal of Hazardous Materials</i> , 2022, 438, 129453.	12.4	25
25	Agglomeration–Flotation of Finely Ground Chalcopyrite Using Emulsified Oil Stabilized by Emulsifiers: Implications for Porphyry Copper Ore Flotation. <i>Metals</i> , 2020, 10, 912.	2.3	22
26	Redox potential-dependent chalcopyrite leaching in acidic ferric chloride solutions: Leaching experiments. <i>Hydrometallurgy</i> , 2020, 194, 105299.	4.3	21
27	Kinetic Analysis for Agglomeration-Flotation of Finely Ground Chalcopyrite: Comparison of First Order Kinetic Model and Experimental Results. <i>Materials Transactions</i> , 2020, 61, 1940-1948.	1.2	21
28	Effects of coarse chalcopyrite on flotation behavior of fine chalcopyrite. <i>Minerals Engineering</i> , 2021, 163, 106776.	4.3	20
29	Repurposing of aluminum scrap into magnetic Al ₀ /ZVI bimetallic materials: Two-stage mechanical-chemical synthesis and characterization of products. <i>Journal of Cleaner Production</i> , 2021, 317, 128285.	9.3	20
30	Beneficiation of Low-Grade Rare Earth Ore from Khalzan Buregtei Deposit (Mongolia) by Magnetic Separation. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1432.	2.0	20
31	Agglomeration-flotation of finely ground chalcopyrite using surfactant-stabilized oil emulsions: Effects of co-existing minerals and ions. <i>Minerals Engineering</i> , 2021, 171, 107076.	4.3	19
32	A novel arsenic immobilization strategy via a two-step process: Arsenic concentration from dilute solution using schwertmannite and immobilization in Ca–Fe–AsO ₄ compounds. <i>Journal of Environmental Management</i> , 2021, 295, 113052.	7.8	19
33	Enhanced cementation of Cd ²⁺ , Co ²⁺ , Ni ²⁺ , and Zn ²⁺ on Al from sulfate solutions by activated carbon addition. <i>Hydrometallurgy</i> , 2021, 201, 105580.	4.3	18
34	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. <i>Hydrometallurgy</i> , 2022, 208, 105815.	4.3	15
35	Recovery of Rare Earth Metals (REMs) from Nickel Metal Hydride Batteries of Electric Vehicles. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 34.	2.0	14
36	Flotation Separation of Chalcopyrite and Molybdenite Assisted by Microencapsulation Using Ferrous and Phosphate Ions: Part I. Selective Coating Formation. <i>Metals</i> , 2020, 10, 1667.	2.3	13

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37	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. <i>Metals</i> , 2021, 11, 253.	2.3	12
38	Simultaneous extraction and recovery of lead using citrate and micro-scale zero-valent iron for decontamination of polluted shooting range soils. <i>Environmental Advances</i> , 2021, 5, 100115.	4.8	11
39	Development of Hydrometallurgical Process for Recovery of Rare Earth Metals (Nd, Pr, and Dy) from Nd-Fe-B Magnets. <i>Metals</i> , 2021, 11, 1987.	2.3	11
40	The Challenges and Prospects of Recovering Fine Copper Sulfides from Tailings Using Different Flotation Techniques: A Review. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 586.	2.0	11
41	Flotation Separation of Chalcopyrite and Molybdenite Assisted by Microencapsulation Using Ferrous and Phosphate Ions: Part II. Flotation. <i>Metals</i> , 2021, 11, 439.	2.3	10
42	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. <i>Metals</i> , 2021, 11, 1352.	2.3	10
43	Heterogenous carrier flotation technique for recovering finely ground chalcopyrite particles using coarse pyrite particles as a carrier. <i>Minerals Engineering</i> , 2022, 180, 107518.	4.3	10
44	Development of a restraining wall and screw-extractor discharge system for continuous jig separation of mixed plastics. <i>Minerals Engineering</i> , 2021, 168, 106918.	4.3	9
45	Enhanced Cementation of Co ²⁺ and Ni ²⁺ from Sulfate and Chloride Solutions Using Aluminum as an Electron Donor and Conductive Particles as an Electron Pathway. <i>Metals</i> , 2021, 11, 248.	2.3	8
46	Addition of Fe ₃ O ₄ as electron mediator for enhanced cementation of Cd ²⁺ and Zn ²⁺ on aluminum powder from sulfate solutions and magnetic separation to concentrate cemented metals from cementation products. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106699.	6.7	6
47	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. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 91.	2.0	6
48	Alkaline Leaching and Concurrent Cementation of Dissolved Pb and Zn from Zinc Plant Leach Residues. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 393.	2.0	5
49	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 Pb ²⁺ as Zero-Valent Pb by Cementation Using Zero-Valent Fe. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 393.	2.0	4
50	Carrier-microencapsulation using Al-catecholate complex to suppress arsenopyrite oxidation: Evaluation of the coating stability under simulated weathering conditions. <i>MATEC Web of Conferences</i> , 2019, 268, 06002.	0.2	2
51	Advances in Selective Flotation and Leaching Process in Metallurgy. <i>Metals</i> , 2022, 12, 144.	2.3	2
52	Formation of surface protective coatings on arsenopyrite using Al-catecholate complex and its mode of inhibition of arsenopyrite oxidation. <i>MATEC Web of Conferences</i> , 2019, 268, 06015.	0.2	1