

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	5,204 citations	34 h-index	71 g-index
109 ext. papers	6,006 ext. citations	5.9 avg, IF	6.2 L-index

#	Paper	IF	Citations
97	Acid Mine Drainage (AMD): causes, treatment and case studies. <i>Journal of Cleaner Production</i> , 2006 , 14, 1139-1145	10.3	879
96	Aqueous metal recovery techniques from e-scrap: Hydrometallurgy in recycling. <i>Minerals Engineering</i> , 2012 , 25, 28-37	4.9	468
95	A review of approaches and techniques used in aquatic contaminated sediments: metal removal and stabilization by chemical and biotechnological processes. <i>Journal of Cleaner Production</i> , 2015 , 86, 24-36	10.3	254
94	Precious metal recovery from waste printed circuit boards using cyanide and non-cyanide lixiviants--A review. <i>Waste Management</i> , 2015 , 45, 258-71	8.6	247
93	Destruction of cyanide in gold mill effluents: biological versus chemical treatments. <i>Biotechnology Advances</i> , 2003 , 21, 501-11	17.8	192
92	A review of technologies for the recovery of metals from spent alkaline and zinc-carbon batteries. <i>Hydrometallurgy</i> , 2009 , 97, 158-166	4	190
91	Cyanide and removal options from effluents in gold mining and metallurgical processes. <i>Minerals Engineering</i> , 2013 , 50-51, 13-29	4.9	175
90	A review of metal recovery from spent petroleum catalysts and ash. <i>Waste Management</i> , 2015 , 45, 420-336	3.6	159
89	Current scenario of chalcopryrite bioleaching: a review on the recent advances to its heap-leach technology. <i>Bioresource Technology</i> , 2015 , 196, 694-706	11	139
88	Biotechnological strategies for the recovery of valuable and critical raw materials from waste electrical and electronic equipment (WEEE) - A review. <i>Journal of Hazardous Materials</i> , 2019 , 362, 467-481	12.8	135
87	Recent advances on hydrometallurgical recovery of critical and precious elements from end of life electronic wastes - a review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019 , 49, 212-275	11.1	127
86	Microbial destruction of cyanide wastes in gold mining: process review. <i>Biotechnology Letters</i> , 2003 , 25, 445-50	3	111
85	Bioleaching of complex zinc sulphides using mesophilic and thermophilic bacteria: comparative importance of pH and iron. <i>Hydrometallurgy</i> , 2004 , 73, 293-303	4	111
84	Biohydrometallurgy techniques of low grade ores: A review on black shale. <i>Hydrometallurgy</i> , 2012 , 117-118, 1-12	4	98
83	Biohydrometallurgy of secondary metal resources: a potential alternative approach for metal recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 2115-2132	3.5	95
82	Biological treatment of cyanide by natural isolated bacteria (<i>Pseudomonas</i> sp.). <i>Minerals Engineering</i> , 2003 , 16, 643-649	4.9	95
81	Role and contribution of pure and mixed cultures of mesophiles in bioleaching of a pyritic chalcopryrite concentrate. <i>Minerals Engineering</i> , 2007 , 20, 310-318	4.9	79

80	Biodegradation of cyanide containing effluents by <i>Scenedesmus obliquus</i> . <i>Journal of Hazardous Materials</i> , 2009 , 162, 74-9	12.8	76
79	Overview On Extraction and Separation of Rare Earth Elements from Red Mud: Focus on Scandium. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2018 , 39, 145-151	3.1	73
78	Environmentally sustainable acid mine drainage remediation: Research developments with a focus on waste/by-products. <i>Minerals Engineering</i> , 2018 , 126, 207-220	4.9	73
77	Heterogeneous catalytic degradation of cyanide using copper-impregnated pumice and hydrogen peroxide. <i>Water Research</i> , 2005 , 39, 1652-62	12.5	64
76	A greener approach for resource recycling: Manganese bioleaching. <i>Chemosphere</i> , 2016 , 154, 628-639	8.4	57
75	Non-cyanide Leaching Processes in Gold Hydrometallurgy and Iodine-Iodide Applications: A Review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015 , 36, 198-212	3.1	53
74	Potential bioleaching developments towards commercial reality: Turkish metal mining's future. <i>Minerals Engineering</i> , 2004 , 17, 477-480	4.9	50
73	Microbial detoxification of cyanide solutions: a new biotechnological approach using algae. <i>Hydrometallurgy</i> , 2004 , 72, 167-176	4	50
72	Metal extraction from spent sulfuric acid catalyst through alkaline and acidic leaching. <i>Hydrometallurgy</i> , 2009 , 100, 20-28	4	48
71	Recovery of vanadium from spent catalysts of sulfuric acid plant by using inorganic and organic acids: Laboratory and semi-pilot tests. <i>Waste Management</i> , 2016 , 49, 455-461	8.6	47
70	Reductive dissolution by waste newspaper for enhanced meso-acidophilic bioleaching of copper from low grade chalcopyrite: A new concept of biohydrometallurgy. <i>Hydrometallurgy</i> , 2015 , 153, 98-105	4	45
69	Effect of biooxidation conditions on cyanide consumption and gold recovery from a refractory gold concentrate. <i>Hydrometallurgy</i> , 2010 , 104, 142-149	4	42
68	Reductive leaching of manganese and zinc from spent alkaline and zinc-carbon batteries in acidic media. <i>Hydrometallurgy</i> , 2009 , 97, 73-79	4	40
67	Acidophilic bioleaching: A Review on the Process and Effect of Organic-Inorganic Reagents and Materials on its Efficiency. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2019 , 40, 87-107	3.1	38
66	Destruction of cyanide by hydrogen peroxide in tailings slurries from low bearing sulphidic gold ores. <i>Minerals Engineering</i> , 2005 , 18, 353-362	4.9	37
65	An integrated biological approach for treatment of cyanidation wastewater. <i>Science of the Total Environment</i> , 2016 , 571, 711-20	10.2	34
64	Biodegradation of dibenzothiophene and its application in the production of clean coal. <i>Fuel Processing Technology</i> , 2016 , 152, 325-342	7.2	34
63	Metals recovery from multimetal sulphide concentrates (CuFeS ₂ PbS ₂ ZnS): combination of thermal process and pressure leaching. <i>International Journal of Mineral Processing</i> , 2003 , 71, 233-246		33

62	Valorization of waste LCD and recovery of critical raw material for circular economy: A review. <i>Resources, Conservation and Recycling</i> , 2019 , 149, 622-637	11.9	32
61	First application of cyanidation process in Turkish gold mining and its environmental impacts. <i>Minerals Engineering</i> , 2002 , 15, 695-699	4.9	32
60	Bioleaching of high grade Zn/Bi bearing ore by mixed moderate thermophilic microorganisms. <i>Separation and Purification Technology</i> , 2014 , 136, 241-249	8.3	30
59	Synergistic effect of biogenic Fe coupled to S ⁰ oxidation on simultaneous bioleaching of Cu, Co, Zn and As from hazardous Pyrite Ash Waste. <i>Journal of Hazardous Materials</i> , 2017 , 325, 59-70	12.8	28
58	Gallium and vanadium extraction from red mud of Turkish alumina refinery plant: Hydrogarnet process. <i>Hydrometallurgy</i> , 2015 , 157, 72-77	4	26
57	Recovery of rare earth metals as critical raw materials from phosphorus slag of long-term storage. <i>Hydrometallurgy</i> , 2017 , 173, 271-282	4	25
56	A preliminary research on acid pressure leaching of pyritic copper ore in Kure Copper Mine, Turkey. <i>Minerals Engineering</i> , 2002 , 15, 1193-1197	4.9	25
55	Recovery of vanadium and gallium from solid waste by-products of Bayer process. <i>Minerals Engineering</i> , 2015 , 74, 91-98	4.9	23
54	Recovery of rare earth metals and precipitated silicon dioxide from phosphorus slag. <i>Minerals Engineering</i> , 2015 , 77, 159-166	4.9	21
53	Factorial experiments for iron removal from kaolin by using single and two-step leaching with sulfuric acid. <i>Hydrometallurgy</i> , 2013 , 134-135, 80-86	4	21
52	Prediction and optimization studies for bioleaching of molybdenite concentrate using artificial neural networks and genetic algorithm. <i>Minerals Engineering</i> , 2019 , 130, 24-35	4.9	21
51	Managing cyanide: health, safety and risk management practices at Turkey's Ovacik gold/silver mine. <i>Journal of Cleaner Production</i> , 2006 , 14, 727-735	10.3	20
50	Thermodynamic and kinetic of iodine/bismuth leaching in gold hydrometallurgy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3774-3783	3.3	19
49	COVID-19 disruptions to tech-metals supply are a wake-up call. <i>Nature</i> , 2020 , 587, 365-367	50.4	19
48	A New Global Approach of Cyanide Management: International Cyanide Management Code for the Manufacture, Transport, and Use of Cyanide in the Production of Gold. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2010 , 31, 135-149	3.1	18
47	Removal of Iron From Quartz Ore Using Different Acids: A Laboratory-Scale Reactor Study. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2014 , 35, 217-228	3.1	17
46	Bioremediation of acidic mine effluents and the role of sulfidogenic biosystems: a mini-review. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2016 , 1, 1	1.7	16
45	A Multi-stage Process for Recovery of Neodymium (Nd) and Dysprosium (Dy) from Spent Hard Disc Drives (HDDs). <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021 , 42, 90-101	3.1	16

44	Iron removal in production of purified quartz by hydrometallurgical process. <i>International Journal of Mineral Processing</i> , 2016 , 153, 44-50		15
43	Kinetic study of gallium electrochemical reduction in alkaline solution. <i>Hydrometallurgy</i> , 2013 , 140, 95-101		15
42	Effect of parameters on vanadium recovery from by-products of the Bayer process. <i>Hydrometallurgy</i> , 2015 , 152, 76-83	4	15
41	Biodesulphurization of Turkish lignite by <i>Leptospirillum ferriphilum</i> : Effect of ferrous iron, Span-80 and ultrasonication. <i>Hydrometallurgy</i> , 2018 , 176, 166-175	4	14
40	Intensified acidophilic bioleaching of multi-metals from waste printed circuit boards (WPCBs) of spent mobile phones. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2272-2285	3.5	13
39	Effect of Span-80 and ultrasonication on biodesulphurization of lignite by <i>Rhodococcus erythropolis</i> : Lab to semi-pilot scale tests. <i>Minerals Engineering</i> , 2018 , 119, 183-190	4.9	13
38	Hydrometallurgical recycling strategies for recovery of rare earth elements from consumer electronic scraps: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 1785-1797	3.5	12
37	Metal Recovery from Bottom Ash of an Incineration Plant: Laboratory Reactor Tests. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2017 , 38, 199-206	3.1	11
36	Experimental process analysis and mathematical modeling for selective gold leaching from slag through wet chlorination. <i>Hydrometallurgy</i> , 2014 , 144-145, 170-185	4	11
35	A Potential Alternative for Precious Metal Recovery from E-waste: Iodine Leaching. <i>Separation Science and Technology</i> , 2015 , 150629132750004	2.5	11
34	Microbial Dissolution of Zn-Pb Sulfide Minerals Using Mesophilic Iron and Sulfur-Oxidizing Acidophiles. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015 , 36, 112-122	3.1	11
33	Biohydrometallurgy in Turkish gold mining: First shake flask and bioreactor studies. <i>Minerals Engineering</i> , 2013 , 46-47, 25-33	4.9	11
32	Coal-Gold Agglomeration: An Alternative Separation Process in Gold Recovery. <i>Separation and Purification Reviews</i> , 2009 , 38, 173-201	7.3	11
31	Red mud valorization an industrial waste circular economy challenge; review over processes and their chemistry. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-51	11.1	11
30	A novel bioreactor system for simultaneous multi-metal leaching from industrial pyrite ash: Effect of agitation and sulphur dosage. <i>Journal of Hazardous Materials</i> , 2018 , 342, 454-463	12.8	10
29	Copper and cobalt recovery from pyrite ashes of a sulphuric acid plant. <i>Waste Management and Research</i> , 2016 , 34, 527-33	4	10
28	Combined oxidative leaching and electrowinning process for mercury recovery from spent fluorescent lamps. <i>Waste Management</i> , 2016 , 57, 215-219	8.6	10
27	Biotechnological trends and market impact on the recovery of rare earth elements from bauxite residue (red mud) [A review. <i>Resources, Conservation and Recycling</i> , 2021 , 171, 105645	11.9	10

26	Regularities of Rhenium and Uranium Sorption from Mixed Solutions with Weakly Basic Anion Exchange Resin. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015 , 36, 391-398	3.1	9
25	Sequential bioleaching and bioleaching-chemical leaching hybrid tests for enhanced copper recovery from a concentrator ball mill reject sample. <i>Hydrometallurgy</i> , 2015 , 157, 171-177	4	9
24	Recovery of rare earth metals (REMs) from primary raw material: sulphatization-leaching-precipitation-extraction. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2018 , 39, 319-338	3.1	9
23	A study of the selective leaching of complex sulphides from the Eastern Black Sea Region, Turkey. <i>Minerals Engineering</i> , 2002 , 15, 457-459	4.9	9
22	Microalgal potential for nutrient-energy-wastewater nexus: Innovations, current trends and future directions. <i>Energy and Environment</i> , 2021 , 32, 604-634	2.4	9
21	Laboratory and Semipilot Bioreactor Feasibility Tests for Desulphurization of Turkish Lignite using <i>Leptospirillum ferriphilum</i> . <i>Energy & Fuels</i> , 2018 , 32, 2869-2877	4.1	8
20	A Review on the Use of Constructed Wetlands for the Treatment of Acid Mine Drainage 2018 , 249-262		6
19	Separation of hafnium and zirconium using TBP modified ferromagnetic nanoparticles: Effects of acid and metals concentrations. <i>Hydrometallurgy</i> , 2014 , 146, 72-75	4	6
18	A novel approach based on solvent displacement crystallisation for iron removal and copper recovery from solutions of semi-pilot scale bioleaching of WPCBs. <i>Journal of Cleaner Production</i> , 2021 , 294, 126346	10.3	6
17	Sulphur-oxidising bacteria isolated from deep caves improve the removal of arsenic from contaminated harbour sediments. <i>Chemistry and Ecology</i> , 2017 , 33, 103-113	2.3	4
16	Bioleaching of waste mobile phone printed circuit board in controlled redox potential compared to non-controlled redox potential. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 3165-3176	3.3	4
15	Recovery of Gallium and Aluminum from Electrofilter Dust of Alumina Calcination Plant in Bayer Process. <i>Separation Science and Technology</i> , 2015 , 150629134219000	2.5	3
14	Technological trends, emerging applications and metallurgical strategies in antimony recovery from stibnite. <i>Minerals Engineering</i> , 2022 , 175, 107304	4.9	3
13	BIO-MECHANICAL LEACHING OF URANIUM FROM LOW GRADE BLACK SHALE. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 2939-2946	0.6	3
12	Techno-economic Analysis of Boric Acid Production from Colemanite Mineral and Sulfuric Acid. <i>Mineral Processing and Extractive Metallurgy Review</i> , 1-9	3.1	3
11	Purification of Ammonium Perrhenate Solutions from Potassium by Ion Exchange. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2017 , 38, 284-291	3.1	2
10	Processing of Phosphorus Slag with Recovery of Rare Earth Metals and Obtaining Silicon Containing Cake. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 44, 052003	0.3	2
9	Direct cyanidation and roasting combination of a semi-refractory massive sulfide ore. <i>Mining, Metallurgy and Exploration</i> , 2015 , 32, 161-169	1.1	2

8	A Comparative Assessment on the Effect of Different Supplemental Iron Sources on the Bio-dissolution of Zn, Pb, Cd, and As from a High-grade ZnBb Ore. <i>Mining, Metallurgy and Exploration</i> , 2019 , 36, 363-374	1.1	2
7	Indispensable role of coal as an energy source in Turkey with focus on biodesulphurization studies and advances. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100139	7.5	2
6	Acidic Leaching with Chlorate as Oxidizing Agent to Extract Mo and Re from Molybdenite Flotation Concentrate in a Copper Plant. <i>Separation Science and Technology</i> , 2015 , 150623140516001	2.5	1
5	Biotechnological Avenues in Mineral Processing: Fundamentals, Applications and Advances in Bioleaching and Bio-beneficiation. <i>Mineral Processing and Extractive Metallurgy Review</i> , 1-30	3.1	1
4	A Review on Chemical versus Microbial Leaching of Electronic Wastes with Emphasis on Base Metals Dissolution. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1255	2.4	1
3	Rare Earth Element Preconcentration from Various Primary and Secondary Sources by Polymeric Ion Exchange Resins. <i>Separation and Purification Reviews</i> , 1-16	7.3	1
2	Experimental design and process analysis for acidic leaching of metal-rich glass wastes. <i>Waste Management and Research</i> , 2010 , 28, 445-54	4	
1	Letter to the Editor Fuel - Volume 85, Issue 9. <i>Fuel</i> , 2006 , 85, 1309-1309	7.1	