Fereshteh Rashchi

List of Publications by Year
in descending order

99 papers	3,662 citations	126907 33 h-index	149698 56 g-index
104 all docs	104 docs citations	104 times ranked	2696 citing authors

#	Article	IF	Citations
1	Recovery of lithium and cobalt from spent lithium ion batteries (LIBs) using organic acids as leaching reagents: A review. Resources, Conservation and Recycling, 2018, 136, 418-435.	10.8	282
2	Recovery of lithium and cobalt from spent lithium-ion batteries using organic acids: Process optimization and kinetic aspects. Waste Management, 2017, 64, 244-254.	7.4	248
3	Leaching of vanadium from LD converter slag using sulfuric acid. Hydrometallurgy, 2010, 102, 14-21.	4.3	172
4	Hydrometallurgical treatment of tailings with high zinc content. Hydrometallurgy, 2006, 82, 54-62.	4.3	166
5	A shrinking particleâ€"shrinking core model for leaching of a zinc ore containing silica. International Journal of Mineral Processing, 2009, 93, 79-83.	2.6	159
6	Review of the hydrometallurgical processing of non-sulfide zinc ores. Hydrometallurgy, 2014, 149, 153-167.	4.3	152
7	Polyphosphates: A review their chemistry and application with particular reference to mineral processing. Minerals Engineering, 2000, 13, 1019-1035.	4.3	125
8	Separation of oxidized zinc minerals from tailings: Influence of flotation reagents. Minerals Engineering, 2008, 21, 967-972.	4.3	120
9	Fungal bioleaching of WPCBs using Aspergillus niger: Observation, optimization and kinetics. Journal of Environmental Management, 2018, 217, 775-787.	7.8	114
10	Recovery of zinc from an industrial zinc leach residue by solvent extraction using D2EHPA. Minerals Engineering, 2009, 22, 204-206.	4.3	86
11	Vanadium removal from roasted LD converter slag: Optimization of parameters by response surface methodology (RSM). Separation and Purification Technology, 2013, 116, 175-183.	7.9	73
12	Brine leaching of lead-bearing zinc plant residues: Process optimization using orthogonal array design methodology. Hydrometallurgy, 2009, 95, 316-324.	4.3	72
13	Recovery of ultra fine grained silver and copper from PC board scraps. Separation and Purification Technology, 2012, 92, 36-42.	7.9	68
14	Kinetics of leaching: a review. Reviews in Chemical Engineering, 2022, 38, 113-148.	4.4	66
15	Anglesite flotation: a study for lead recovery from zinc leach residue. Minerals Engineering, 2005, 18, 205-212.	4.3	62
16	Stoichiometry and structural studies of Fe(III) and Zn(II) solvent extraction using D2EHPA/TBP. Separation and Purification Technology, 2016, 171, 197-205.	7.9	55
17	Vanadium removal from LD converter slag using bacteria and fungi. Journal of Environmental Management, 2015, 153, 144-151.	7.8	53
18	An environmentally friendly method for recovery of lithium and cobalt from spent lithium-ion batteries using gluconic and lactic acids. Journal of Environmental Chemical Engineering, 2019, 7, 102794.	6.7	49

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19	A new approach for identifying the rate controlling step applied to the leaching of nickel from spent catalyst. International Journal of Mineral Processing, 2011, 100, 21-26.	2.6	46
20	Selective separation of nickel and cadmium from sulfate solutions of spent nickelâ€“cadmium batteries using mixtures of D2EHPA and Cyanex 302. Journal of Power Sources, 2014, 247, 127-133.	7.8	46
21	A new approach for direct leaching of vanadium from LD converter slag. Chemical Engineering Research and Design, 2015, 94, 131-140.	5.6	45
22	Simultaneous recovery of vanadium and nickel from power plant fly-ash: Optimization of parameters using response surface methodology. Waste Management, 2014, 34, 2687-2696.	7.4	44
23	Hydrometallurgical digestion and leaching of Iranian monazite concentrate containing rare earth elements Th, Ce, La and Nd. International Journal of Mineral Processing, 2017, 159, 7-15.	2.6	44
24	Chlorideâ€“hypochlorite leaching of gold from a mechanically activated refractory sulfide concentrate. Hydrometallurgy, 2013, 138, 59-64.	4.3	43
25	Recovery of Titanium from Blast Furnace Slag. Industrial & Engineering Chemistry Research, 2013, 52, 1723-1730.	3.7	42
26	Selective recovery and separation of nickel and vanadium in sulfate media using mixtures of D2EHPA and Cyanex 272. Separation and Purification Technology, 2014, 136, 265-273.	7.9	41
27	Effect of organic additives on synthesis of copper nano powders by pulsing electrolysis. Powder Technology, 2013, 237, 554-561.	4.2	39
28	Chlorideâ€“hypochlorite leaching and hydrochloric acid washing in multi-stages for extraction of gold from a refractory concentrate. Hydrometallurgy, 2014, 142, 56-59.	4.3	39
29	Preparation of nanostructured nickel aluminate spinel powder from spent NiO/Al2O3 catalyst by mechano-chemical synthesis. Advanced Powder Technology, 2012, 23, 833-838.	4.1	38
30	Photocatalytic performance of coupled semiconductor ZnOâ€“CuO nanocomposite coating prepared by a facile brass anodization process. Materials Science in Semiconductor Processing, 2021, 135, 106083.	4.0	38
31	Sphalerite activation and surface Pb ion concentration. International Journal of Mineral Processing, 2002, 67, 43-58.	2.6	37
32	Photocatalytic degradation of methylene blue by nanostructured Fe/FeS powder under visible light. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 244-252.	4.9	37
33	A modified sulfation-roasting-leaching process for recovering Se, Cu, and Ag from copper anode slimes at a lower temperature. Journal of Environmental Management, 2019, 235, 303-309.	7.8	37
34	Recovery of manganese from electric arc furnace dust of ferromanganese production units by reductive leaching. Minerals Engineering, 2011, 24, 174-176.	4.3	35
35	Optimization and kinetics of the cementation of lead with aluminum powder. Hydrometallurgy, 2009, 98, 81-85.	4.3	34
36	Modification and photocatalytic activity of open channel TiO2 nanotubes array synthesized by anodization process. Applied Surface Science, 2020, 534, 147581.	6.1	34

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37	Reductive leaching of zinc, cobalt and manganese from zinc plant residue. Hydrometallurgy, 2016, 161, 185-192.	4.3	31
38	Bioleaching of manganese from a low-grade pyrolusite ore using Aspergillus niger: Process optimization and kinetic studies. Journal of Environmental Management, 2021, 285, 112153.	7.8	30
39	Synergistic Effect of D2EHPA and Cyanex 272 on Separation of Zinc and Manganese by Solvent Extraction. Separation Science and Technology, 2011, 46, 2305-2312.	2.5	29
40	Using design of experiments in synthesis of ultra-fine copper particles by electrolysis. Powder Technology, 2013, 237, 165-171.	4.2	27
41	Interactions in the sphaleriteî—¸Caî—¸SO4î—¸CO3 systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 69-77.	4.7	26
42	Determination of the Optimum Conditions for the Leaching of Lead from Zinc Plant Residues in NaClâ€“H₂SO₄â€“Ca(OH)₂ Media by the Taguchi Method. Industrial & Engineering Chemistry Research, 2012, 51, 3887-3894.	3.7	26
43	Copper nanopowder synthesis by electrolysis method in nitrate and sulfate solutions. Powder Technology, 2013, 250, 91-96.	4.2	25
44	Parameters optimization and kinetics of direct atmospheric leaching of Angouran sphalerite. International Journal of Mineral Processing, 2017, 162, 58-68.	2.6	24
45	Recovery of gallium from waste LEDs by oxidation and subsequent leaching. Hydrometallurgy, 2020, 191, 105230.	4.3	24
46	Electrochemical study and XPS analysis of chalcopyrite dissolution in sulfuric acid in the presence of ethylene glycol. Electrochimica Acta, 2021, 369, 137663.	5.2	24
47	Diagnostic pre-treatment procedure for simultaneous cyanide leaching of gold and silver from a refractory gold/silver ore. Minerals Engineering, 2011, 24, 1703-1709.	4.3	23
48	Modeling and optimization of synergistic effect of Cyanex 302 and D2EHPA on separation of zinc and manganese. Hydrometallurgy, 2011, 105, 277-283.	4.3	23
49	Simultaneous sulfide oxidation and gold leaching of a refractory gold concentrate by chlorideâ€“hypochlorite solution. Minerals Engineering, 2013, 50-51, 140-142.	4.3	23
50	Adsorption on silica in Pb and CaSO4CO3 systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 132, 159-171.	4.7	20
51	Investigating the Synergistic Effect of D2EHPA and Cyanex 302 on Zinc and Manganese Separation. Separation Science and Technology, 2010, 45, 1158-1164.	2.5	20
52	SYNTHESIS OF MAGNETITE NANO-PARTICLES BY REVERSE CO-PRECIPITATION. International Journal of Modern Physics Conference Series, 2012, 05, 160-167.	0.7	20
53	Action of DETA, dextrin and carbonate on lead-contaminated sphalerite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 245, 21-27.	4.7	18
54	The mechanism of electrochemical dissolution of sphalerite in sulfuric acid media. Electrochimica Acta, 2017, 253, 47-58.	5.2	18

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55	Synergistic extraction and separation of Fe(III) and Zn(II) using TBP and D2EHPA. Separation Science and Technology, 2017, 52, 476-486.	2.5	18
56	Mechano-thermal synthesis and characterization of nano-structured Fe/FeS for application in photocatalysis. Particuology, 2018, 37, 72-80.	3.6	18
57	Separation and solvent extraction of rare earth elements (Pr, Nd, Sm, Eu, Tb, and Er) using TBP and Cyanex 572 from a chloride medium. Minerals Engineering, 2021, 161, 106694.	4.3	18
58	Proposal of a New Hf(IV)/Zr(IV) Separation System by the Solvent Extraction Method. Chinese Journal of Chemistry, 2008, 26, 2067-2072.	4.9	17
59	Kinetics of Fe(III)-Fe(II) redox half-reactions on sphalerite surface. Electrochimica Acta, 2018, 281, 624-637.	5.2	17
60	Tellurium, from Copper Anode Slime to High Purity Product: A Review Paper. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2555-2575.	2.1	17
61	The effect of chloride ions on copper solvent extraction from sulfate-chloride medium using LIX 984N. Minerals Engineering, 2020, 156, 106498.	4.3	17
62	Recovery of zinc from leach residues with minimum iron dissolution using oxidative leaching. Waste Management and Research, 2011, 29, 165-171.	3.9	15
63	Synthesis of copper and zinc oxides nanostructures by brass anodization in alkaline media. Surface and Coatings Technology, 2015, 275, 245-251.	4.8	15
64	Photocatalytic activity of the visible-light-driven spherical Ag2S modifying the CdS synthesized by the facile chemical methods for the degradation of methylene blue and rhodamine B. Materials Chemistry and Physics, 2022, 285, 126174.	4.0	15
65	Recovery of nickel from spent NiO/Al₂O₃ catalyst through sulfuric acid leaching, precipitation and solvent extraction. Waste Management and Research, 2012, 30, 492-497.	3.9	14
66	Phyto-extraction of zinc, lead, nickel, and cadmium from a zinc leach residue. Journal of Cleaner Production, 2020, 266, 121539.	9.3	14
67	Deactivation of Pb-contaminated sphalerite by polyphosphate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 276, 87-94.	4.7	13
68	In Situ Synthesis of Silica-Coated Magnetite Nanoparticles by Reverse Coprecipitation Method. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2803-2808.	1.8	12
69	Synthesis of Nanostructured Zinc Oxide Thin Films by Anodic Oxidation Method. Advanced Materials Research, 2013, 829, 347-351.	0.3	12
70	Phyto-extraction of zinc, lead, nickel, and cadmium from zinc leach residue by a halophyte: Salicornia europaea. Ecological Engineering, 2020, 148, 105797.	3.6	12
71	Purification of the leaching solution of recycling zinc from the hazardous electric arc furnace dust through an as-bearing jarosite. Ecotoxicology and Environmental Safety, 2020, 202, 110893.	6.0	12
72	Mechano-chemical processing and characterization of nano-structured FeS powder. Advanced Powder Technology, 2016, 27, 557-563.	4.1	11

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73	Kinetic modeling of copper bioleaching from low-grade ore from the Shahrbabak Copper Complex. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 611-620.	4.9	10
74	Anodizing Pb Electrode for Synthesis of Î²-PbO₂ÂNanoparticles: Optimization of Electrochemical Parameters. Journal of the Electrochemical Society, 2019, 166, D617-D625.	2.9	10
75	Recovery of Zn(II), Mn(II) and Co(II) from the zinc plant residue using the solvent extraction with CYANEX 302 and D2EHPA/TBP: Stoichiometry and structural studies. Minerals Engineering, 2021, 169, 106944.	4.3	10
76	Effect of a Synthesized Pulsed Electrodeposited Ti/PbO₂â€“RuO₂ Nanocomposite on Zinc Electrowinning. Industrial & Engineering Chemistry Research, 2021, 60, 11737-11748.	3.7	10
77	The Influence of Anode Composition on Energy Consumption and Current Efficiency in Zinc Electrowinning. Journal of the Electrochemical Society, 2017, 164, E166-E172.	2.9	8
78	The effect of the chloride ion on chemical degradation of LIX 984N extractant. Minerals Engineering, 2020, 159, 106628.	4.3	8
79	Recovery of manganese from a low-grade waste and valorization via the synthesis of a nanostructured magnetic manganese ferrite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 269, 115177.	3.5	8
80	The Evaluation of Sphalerite Surface Formed During Oxidative Leaching in Acidic Ferric Sulfate Media. Journal of Sustainable Metallurgy, 2021, 7, 1304-1313.	2.3	8
81	Synergistic effects of Ionquest 801 and Cyanex 572 on the solvent extraction of rare earth elements (Pr, Nd, Sm, Eu, Tb, and Er) from a chloride medium. Separation and Purification Technology, 2021, 279, 119797.	7.9	7
82	Selective Separation and Recovery of Tellurium from Copper Anode Slime Using Acidic Leaching and Precipitation with Cuprous Ion. Journal of Sustainable Metallurgy, 2021, 7, 1886-1898.	2.3	6
83	Characterization and Ethanol-Sensing Behavior of Nanostructured Vanadium Pentoxide Recovered from Oil Fly Ash. International Journal of Environmental Research, 2021, 15, 985-999.	2.3	5
84	Lead-Polyphosphate Complexes. Canadian Metallurgical Quarterly, 2002, 41, 1-6.	1.2	4
85	Optimization and dissolution kinetics of vanadium recovery from LD converter slag in alkaline media. Russian Journal of Non-Ferrous Metals, 2016, 57, 395-404.	0.6	4
86	Ti leaching from activated ilmeniteâ€“Fe mixture at different milling energy levels. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 1263-1274.	4.9	4
87	Effect of Additives on Kinetics of Liquid-Liquid Extraction in a ZnSO4/D2EHPA/Kerosene System. Canadian Metallurgical Quarterly, 2010, 49, 235-240.	1.2	3
88	Synergistic Extraction and Separation of Cobalt and Lithium Using D2EHPA and CYANEX 272. Mining, Metallurgy and Exploration, 2022, 39, 777-792.	0.8	3
89	Effect of drying environment on grain size of titanium dioxide nano-powder synthesized via sol-gel method. AIP Conference Proceedings, 2018, , .	0.4	2
90	Modeling of synergistic effect of Cyanex 302 and D2EHPA on separation of nickel and cadmium from sulfate leach liquors of spent Ni-Cd batteries. , 2013, , 262-271.		2

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91	Comparison of Cyanide and Chloride-Hypochlorite Leaching of a Ball Milled Refractory Gold Concentrate with Ultra-Fine Particles. Advanced Materials Research, 2013, 829, 869-873.	0.3	1
92	Characterization of Nano-Structured Tin Oxide Film Prepared by Anodic Oxidation Process. Advanced Materials Research, 0, 829, 366-370.	0.3	1
93	Optimization of Ni, Cu and Zn Recovery in Bioleaching of Electronic Scrap. Solid State Phenomena, 0, 262, 692-695.	0.3	1
94	Preparation of Cu2ZnSnS4 nano-crystalline powder by mechano-chemical method. AIP Conference Proceedings, 2018, , .	0.4	1
95	Effect of Additives on Kinetics of Liquid-Liquid Extraction in a ZnSO₄/D2EHPA/Kerosene System. Canadian Metallurgical Quarterly, 2010, 49, 235-240.	1.2	1
96	Molecular identification of thermoacidophilic bacteria and its performance in bio-extraction of copper from mineral tailings. International Journal of Environmental Science and Technology, 2022, 19, 8397-8406.	3.5	1
97	ESTIMATION OF REAGENT CONSUMPTION IN LEAD FLOTATION OF A ZINC LEACH RESIDUE. Canadian Metallurgical Quarterly, 2005, 44, 483-488.	1.2	0
98	Characterization of Nanostructured Nickel Aluminate Formation during Mechano-Chemical Recycling of Spent NiO/Al₂O₃ Catalyst. Advanced Materials Research, 2011, 364, 186-190.	0.3	0
99	Effect of pulsing current on ZnO thin films microstructure synthesized by anodization. AIP Conference Proceedings, 2018, , .	0.4	0