

Dr Abhilash

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,589
citations

394286

19
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315616

38
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57
all docs

57
docs citations

57
times ranked

1406
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental impact of spent lithium ion batteries and green recycling perspectives by organic acids – A review. Chemosphere, 2020, 242, 125291.	4.2	166
2	Overview On Extraction and Separation of Rare Earth Elements from Red Mud: Focus on Scandium. Mineral Processing and Extractive Metallurgy Review, 2018, 39, 145-151.	2.6	112
3	Extraction of lanthanum and cerium from Indian red mud. International Journal of Mineral Processing, 2014, 127, 70-73.	2.6	102
4	Advanced Review on Extraction of Nickel from Primary and Secondary Sources. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 157-193.	2.6	102
5	Microbial synthesis of iron-based nanomaterials – A review. Bulletin of Materials Science, 2011, 34, 191-198.	0.8	99
6	Comparison of Different Reductants in Leaching of Spent Lithium Ion Batteries. Jom, 2016, 68, 2613-2623.	0.9	88
7	Metallurgical processes for the recovery and recycling of lanthanum from various resources – A review. Hydrometallurgy, 2016, 160, 47-59.	1.8	79
8	Acid baking of spent lithium ion batteries for selective recovery of major metals: A two-step process. Journal of Industrial and Engineering Chemistry, 2016, 43, 117-126.	2.9	76
9	Microbially Assisted Leaching of Uranium – A Review. Mineral Processing and Extractive Metallurgy Review, 2013, 34, 81-113.	2.6	57
10	Perspective of availability and sustainable recycling prospects of metals in rechargeable batteries – A resource overview. Resources Policy, 2019, 60, 9-22.	4.2	53
11	Two stage leaching process for selective metal extraction from spent nickel metal hydride batteries. Journal of Cleaner Production, 2017, 157, 322-332.	4.6	51
12	Dissolution of uranium from silicate-apatite ore by Acidithiobacillus ferrooxidans. Hydrometallurgy, 2009, 95, 70-75.	1.8	43
13	Hydrometallurgical recycling strategies for recovery of rare earth elements from consumer electronic scraps: a review. Journal of Chemical Technology and Biotechnology, 2021, 96, 1785-1797.	1.6	41
14	Mechanism elucidation and adsorbent characterization for removal of Cr(VI) by native fungal adsorbent. Sustainable Environment Research, 2018, 28, 289-297.	2.1	39
15	Prediction and analysis of process failures by ANN classification during wire-EDM of Inconel 718. Advances in Manufacturing, 2020, 8, 519-536.	3.2	38
16	Recovery and Recycling of Cerium from Primary and Secondary Resources- a Critical Review. Mineral Processing and Extractive Metallurgy Review, 2020, 41, 279-310.	2.6	36
17	Synthesis of zinc-based nanomaterials: a biological perspective. IET Nanobiotechnology, 2012, 6, 144-148.	1.9	35
18	Bioleaching - An Alternate Uranium Ore Processing Technology for India. Energy Procedia, 2011, 7, 158-162.	1.8	25

#	ARTICLE	IF	CITATIONS
19	Role of ferric ions in bioleaching of uranium from low tenor Indian ore. Canadian Metallurgical Quarterly, 2011, 50, 102-112.	0.4	23
20	Extraction of Ce and Th from Monazite Using REE Tolerant <i>Aspergillus niger</i> . Mineral Processing and Extractive Metallurgy Review, 2017, 38, 312-320.	2.6	22
21	Sustainability improvement of WEDM process by analysing and classifying wire rupture using kernel-based naive Bayes classifier. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	18
22	Multi-response Optimization of Wire EDM of Inconel 718 Using a Hybrid Entropy Weighted GRA-TOPSIS Method. Process Integration and Optimization for Sustainability, 2022, 6, 61-72.	1.4	18
23	Distribution of scandium in red mud and extraction using <i>Gluconobacter oxydans</i> . Hydrometallurgy, 2021, 202, 105621.	1.8	17
24	Organic acid leaching of base metals from copper granulated slag and evaluation of mechanism. Canadian Metallurgical Quarterly, 2017, 56, 168-178.	0.4	16
25	Processing of Waste Copper Converter Slag Using Organic Acids for Extraction of Copper, Nickel, and Cobalt. Minerals (Basel, Switzerland), 2020, 10, 290.	0.8	16
26	Column Bioleaching of a Low-Grade Silicate Ore of Uranium. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 224-235.	2.6	15
27	Phosphonomethyl iminodiacetic acid functionalized metal organic framework supported PAN composite beads for selective removal of La(III) from wastewater: Adsorptive performance and column separation studies. Journal of Hazardous Materials, 2022, 425, 127802.	6.5	15
28	Bioreactor leaching of uranium from a low grade Indian silicate ore. Biochemical Engineering Journal, 2013, 71, 111-117.	1.8	14
29	Bioleaching of low grade granitic chalcopyrite ore by hyperthermophiles: Elucidation of kinetics-mechanism. Metallurgical Research and Technology, 2015, 112, 506.	0.4	14
30	Recycling of plastic wastes generated from COVID-19: A comprehensive illustration of type and properties of plastics with remedial options. Science of the Total Environment, 2022, 838, 155895.	3.9	13
31	Comparative Performance of Uranium Bioleaching from Low Grade Indian Apatite Rock in Column and Bioreactor. Energy Procedia, 2013, 39, 20-32.	1.8	12
32	Removal of Hexavalent Chromium from Mine Effluents by Ion Exchange Resins-Comparative Study of Amberlite IRA 400 and IRA 900. Russian Journal of Non-Ferrous Metals, 2018, 59, 533-542.	0.2	12
33	Bioleaching of apatite rich low grade Indian uranium ore. Canadian Metallurgical Quarterly, 2012, 51, 390-402.	0.4	11
34	Bacterial leaching kinetics for copper dissolution from a lowgrade Indian chalcopyrite ore. Revista Escola De Minas, 2013, 66, 245-250.	0.1	11
35	Microbial Processing of Waste Shredded PCBs for Copper Extraction Cum Separation—Comparing the Efficacy of Bacterial and Fungal Leaching Kinetics and Yields. Metals, 2021, 11, 317.	1.0	11
36	Process optimization for bio-beneficiation of a chromite concentrate by a Cr(VI) reducing native microbe (<i>Bacillus</i> sp.). International Journal of Mineral Processing, 2013, 123, 129-136.	2.6	10

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37	Microbial processing of apatite rich low grade Indian uranium ore in bioreactor. <i>Bioresource Technology</i> , 2013, 128, 619-623.	4.8	8
38	Exploring blast furnace slag as a secondary resource for extraction of rare earth elements. <i>Minerals and Metallurgical Processing</i> , 2017, 34, 178-182.	0.7	8
39	Ferritization of industrial waste water and microbial synthesis of iron-based magnetic nanomaterials from sediments. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1407-1414.	1.3	7
40	Chloride leaching of lanthanum and cerium from Indian red mud and metal separation studies. <i>Metallurgical Research and Technology</i> , 2019, 116, 210.	0.4	7
41	Bioreduction of Hexavalent Chromium by <i>Bacillus cereus</i> Isolated from Chromite Mine Overburden Soil. <i>Advanced Materials Research</i> , 0, 828, 81-91.	0.3	6
42	An overview on chemical processes for synthesis of graphene from waste carbon resources. <i>Carbon Letters</i> , 2022, 32, 653-669.	3.3	6
43	Strategies for Recycling of Primary and Secondary Resources for Germanium Extraction. <i>Mining, Metallurgy and Exploration</i> , 2022, 39, 689-707.	0.4	5
44	Extraction of REEs from Blast Furnace Slag by <i>Gluconobacter oxydans</i> . <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 701.	0.8	5
45	Extraction of vanadium and synthesis of vanadium pentoxide from Bayer's sludge. <i>Russian Journal of Non-Ferrous Metals</i> , 2016, 57, 338-346.	0.2	4
46	Green process for recovery of vanadium from hazardous spent contact process catalyst by oxalic acid: kinetics and mechanism. <i>Separation Science and Technology</i> , 2021, 56, 3183-3200.	1.3	3
47	Efficacy of Bacterial Adaptation on Copper Biodissolution from a Low Grade Chalcopyrite Ore by <i>A. ferrooxidans</i> . <i>International Journal of Nonferrous Metallurgy</i> , 2012, 01, 1-7.	0.5	3
48	Physical, mechanical and metallurgical characteristics of banded hematite jasper of Ghatkuri (Gua), Jharkhand. <i>Journal of the Geological Society of India</i> , 2017, 90, 623-627.	0.5	2
49	Application of Hydrodynamics Using CFD in Evaluating Efficacy of External Loop Air-lift Reactor Biochemical Leaching of Sea Nodules. <i>Mineral Processing and Extractive Metallurgy Review</i> , 0, , 1-7.	2.6	2
50	Microbial Sorption Studies for Removal of Trivalent Chromium from Model Tanning Bath. <i>Advanced Materials Research</i> , 2013, 828, 33-44.	0.3	1
51	Microbial Variants from Iron Ore Slimes: Mineral Specificity and pH Tolerance. <i>Indian Journal of Microbiology</i> , 2015, 55, 430-439.	1.5	1
52	Corrigendum to "Distribution of scandium in red mud and extraction using <i>Gluconobacter oxydans</i> " [Hydrometallurgy 202 (2021) 105621]. <i>Hydrometallurgy</i> , 2021, 203, 105696.	1.8	0