Dr Abhilash

List of Publications by Year
in descending order

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52	1,589	394286	315616
papers	citations	19 h-index	38 g-index

57	57	57	1406
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Strategies for Recycling of Primary and Secondary Resources for Germanium Extraction. Mining, Metallurgy and Exploration, 2022, 39, 689-707.	0.4	5
4	An overview on chemical processes for synthesis of graphene from waste carbon resources. Carbon Letters, 2022, 32, 653-669.	3.3	6
5	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
6	Extraction of REEs from Blast Furnace Slag by Gluconobacter oxydans. Minerals (Basel, Switzerland), 2022, 12, 701.	0.8	5
7	Green process for recovery of vanadium from hazardous spent contact process catalyst by oxalic acid: kinetics and mechanism. Separation Science and Technology, 2021, 56, 3183-3200.	1.3	3
8	Microbial Processing of Waste Shredded PCBs for Copper Extraction Cum Separationâ€"Comparing the Efficacy of Bacterial and Fungal Leaching Kinetics and Yields. Metals, 2021, 11, 317.	1.0	11
9	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
10	Distribution of scandium in red mud and extraction using Gluconobacter oxydans. Hydrometallurgy, 2021, 202, 105621.	1.8	17
11	Corrigendum to â€œDistribution of scandium in red mud and extraction using Gluconobacter oxydansâ€• [Hydrometallurgy 202 (2021) 105621]. Hydrometallurgy, 2021, 203, 105696.	1.8	0
12	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
13	Environmental impact of spent lithium ion batteries and green recycling perspectives by organic acids â€“ A review. Chemosphere, 2020, 242, 125291.	4.2	166
14	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
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	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
17	Chloride leaching of lanthanum and cerium from Indian red mud and metal separation studies. Metallurgical Research and Technology, 2019, 116, 210.	0.4	7
18	Perspective of availability and sustainable recycling prospects of metals in rechargeable batteriesÂâ€“ A resource overview. Resources Policy, 2019, 60, 9-22.	4.2	53

#	Article	IF	Citations
19	Advanced Review on Extraction of Nickel from Primary and Secondary Sources. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 157-193.	2.6	102
20	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
21	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
22	Mechanism elucidation and adsorbent characterization for removal of Cr(VI) by native fungal adsorbent. Sustainable Environment Research, 2018, 28, 289-297.	2.1	39
23	Organic acid leaching of base metals from copper granulated slag and evaluation of mechanism. Canadian Metallurgical Quarterly, 2017, 56, 168-178.	0.4	16
24	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
25	Extraction of Ce and Th from Monazite Using REE Tolerant Aspergillus niger. Mineral Processing and Extractive Metallurgy Review, 2017, 38, 312-320.	2.6	22
26	Physical, mechanical and metallurgical characteristics of banded hematite jasper of Ghatkuri (Gua), Jharkhand. Journal of the Geological Society of India, 2017, 90, 623-627.	0.5	2
27	Exploring blast furnace slag as a secondary resource for extraction of rare earth elements. Minerals and Metallurgical Processing, 2017, 34, 178-182.	0.7	8
28	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
29	Comparision of Different Reductants in Leaching of Spent Lithium Ion Batteries. Jom, 2016, 68, 2613-2623.	0.9	88
30	Extraction of vanadium and synthesis of vanadium pentaoxide from Bayerâ€™s sludge. Russian Journal of Non-Ferrous Metals, 2016, 57, 338-346.	0.2	4
31	Ferritization of industrial waste water and microbial synthesis of ironâ€based magnetic nanomaterials from sediments. Environmental Progress and Sustainable Energy, 2016, 35, 1407-1414.	1.3	7
32	Metallurgical processes for the recovery and recycling of lanthanum from various resourcesâ€”A review. Hydrometallurgy, 2016, 160, 47-59.	1.8	79
33	Bioleaching of low grade granitic chalcopyrite ore by hyperthermophiles: Elucidation of kinetics-mechanism. Metallurgical Research and Technology, 2015, 112, 506.	0.4	14
34	Microbial Variants from Iron Ore Slimes: Mineral Specificity and pH Tolerance. Indian Journal of Microbiology, 2015, 55, 430-439.	1.5	1
35	Extraction of lanthanum and cerium from Indian red mud. International Journal of Mineral Processing, 2014, 127, 70-73.	2.6	102
36	Microbially Assisted Leaching of Uraniumâ€”A Review. Mineral Processing and Extractive Metallurgy Review, 2013, 34, 81-113.	2.6	57

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37	Process optimization for bio-beneficiation of a chromite concentrate by a Cr(VI) reducing native microbe (Bacillus sp.). International Journal of Mineral Processing, 2013, 123, 129-136.	2.6	10
38	Microbial processing of apatite rich low grade Indian uranium ore in bioreactor. Bioresource Technology, 2013, 128, 619-623.	4.8	8
39	Comparative Performance of Uranium Bioleaching from Low Grade Indian Apatite Rock in Column and Bioreactor. Energy Procedia, 2013, 39, 20-32.	1.8	12
40	Bioreactor leaching of uranium from a low grade Indian silicate ore. Biochemical Engineering Journal, 2013, 71, 111-117.	1.8	14
41	Microbial Sorption Studies for Removal of Trivalent Chromium from Model Tanning Bath. Advanced Materials Research, 2013, 828, 33-44.	0.3	1
42	Bacterial leaching kinetics for copper dissolution from a lowgrade Indian chalcopyrite ore. Revista Escola De Minas, 2013, 66, 245-250.	0.1	11
43	Bioleaching of apatite rich low grade Indian uranium ore. Canadian Metallurgical Quarterly, 2012, 51, 390-402.	0.4	11
44	Synthesis of zinc-based nanomaterials: a biological perspective. IET Nanobiotechnology, 2012, 6, 144-148.	1.9	35
45	Efficacy of Bacterial Adaptation on Copper Biodissolution from a Low Grade Chalcopyrite Ore by A. ferrooxidans. International Journal of Nonferrous Metallurgy, 2012, 01, 1-7.	0.5	3
46	Bioleaching - An Alternate Uranium Ore Processing Technology for India. Energy Procedia, 2011, 7, 158-162.	1.8	25
47	Microbial synthesis of iron-based nanomaterialsâ€”A review. Bulletin of Materials Science, 2011, 34, 191-198.	0.8	99
48	Role of ferric ions in bioleaching of uranium from low tenor Indian ore. Canadian Metallurgical Quarterly, 2011, 50, 102-112.	0.4	23
49	Column Bioleaching of a Low-Grade Silicate Ore of Uranium. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 224-235.	2.6	15
50	Dissolution of uranium from silicate-apatite ore by Acidithiobacillus ferrooxidans. Hydrometallurgy, 2009, 95, 70-75.	1.8	43
51	Bioreduction of Hexavalent Chromium by <i>Bacillus cereus</i> Isolated from Chromite Mine Overburden Soil. Advanced Materials Research, 0, 828, 81-91.	0.3	6
52	Application of Hydrodynamics Using CFD in Evaluating Efficacy of External Loop Air-lift Reactor Biochemical Leaching of Sea Nodules. Mineral Processing and Extractive Metallurgy Review, 0, , 1-7.	2.6	2