

# Nikhil Dhawan

## 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.

88

papers

845

citations

16

h-index

24

g-index

92

ext. papers

1,071

ext. citations

3.2

avg, IF

5.55

L-index

#	Paper	IF	Citations
88	Beneficiation studies of a difficult to treat iron ore using conventional and microwave roasting. <i>Powder Technology</i> , <b>2016</b> , 301, 1016-1024	5.2	57
87	Recent advances in the application of X-ray computed tomography in the analysis of heap leaching systems. <i>Minerals Engineering</i> , <b>2012</b> , 35, 75-86	4.9	52
86	Crushed ore agglomeration and its control for heap leach operations. <i>Minerals Engineering</i> , <b>2013</b> , 41, 53-70	4.9	50
85	Particle damage and exposure analysis in HPGR crushing of selected copper ores for column leaching. <i>Minerals Engineering</i> , <b>2011</b> , 24, 1478-1487	4.9	50
84	Studies on extraction of potassium values from nepheline syenite. <i>International Journal of Mineral Processing</i> , <b>2014</b> , 133, 13-22		48
83	Comparison of microwave and conventional carbothermal reduction of red mud for recovery of iron values. <i>Minerals Engineering</i> , <b>2019</b> , 132, 202-210	4.9	40
82	Reductive leaching of cobalt from zinc plant purification residues. <i>Hydrometallurgy</i> , <b>2011</b> , 106, 51-57	4	26
81	Evaluation of stucco binder for agglomeration in the heap leaching of copper ore. <i>Minerals Engineering</i> , <b>2011</b> , 24, 886-893	4.9	25
80	Carbothermal Reduction of Spent Mobile Phones Batteries for the Recovery of Lithium, Cobalt, and Manganese Values. <i>Jom</i> , <b>2019</b> , 71, 4483-4491	2.1	24
79	Microwave Reduction of Red Mud for Recovery of Iron Values. <i>Journal of Sustainable Metallurgy</i> , <b>2018</b> , 4, 427-436	2.7	24
78	Microwave-assisted reduction roasting magnetic separation studies of two mineralogically different low-grade iron ores. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2020</b> , 27, 1449-1461	3.1	22
77	Optimization of microwave carbothermal reduction for processing of banded hematite jasper ore. <i>Minerals Engineering</i> , <b>2019</b> , 138, 204-214	4.9	21
76	Recovery of Cobalt and Lithium Values from Discarded Li-Ion Batteries. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 204-209	2.7	21
75	Extraction of Iron values from Red mud. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17064-17072	1.4	20
74	Extraction of rare earth oxides from discarded compact fluorescent lamps. <i>Minerals Engineering</i> , <b>2019</b> , 135, 95-104	4.9	19
73	Further study of grain boundary fracture in the breakage of single multiphase particles using X-ray microtomography procedures. <i>Minerals Engineering</i> , <b>2013</b> , 46-47, 89-94	4.9	16
72	Recycling of mixed discarded lithium-ion batteries via microwave processing route. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00157	5.3	15

71	Investigation of carbothermic microwave reduction followed by acid leaching for recovery of iron and aluminum values from Indian red mud. <i>Minerals Engineering</i> , <b>2020</b> , 159, 106653	4.9	15
70	Evaluation of red mud as a polymetallic source [A review]. <i>Minerals Engineering</i> , <b>2021</b> , 171, 107084	4.9	13
69	Processing of Spent Li-Ion Batteries for Recovery of Cobalt and Lithium Values. <i>Jom</i> , <b>2019</b> , 71, 4659-4665.1	5.1	12
68	Microwave Carbothermic Reduction of Low-Grade Iron Ore. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 1576-1586	2.5	12
67	Comparison of Microwave and Conventional Indigenous Carbothermal Reduction for Recycling of Discarded Lithium-Ion Batteries. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 2041-2051	1.2	10
66	Evaluation of Fluidization Process for Recovery of Metals from Discarded Printed Circuit Boards. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 519-527	2.7	10
65	Kinetics of hydrochloric acid leaching of smithsonite. <i>Russian Journal of Non-Ferrous Metals</i> , <b>2011</b> , 52, 209-216	0.8	10
64	Extraction of aluminum values from fly ash. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17055-17063	1.4	10
63	Thermal Processing of Spent Li-Ion Batteries for Extraction of Lithium and Cobalt/Manganese Values. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 3035-3044	1.2	9
62	Recovery of potash values from feldspar. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 1398-1406	2.5	9
61	Investigation of planetary ball milling of sericite for potash recovery. <i>Powder Technology</i> , <b>2019</b> , 351, 115-121	5.2	8
60	Rapid microwave processing of discarded tubular lights for extraction of rare earth values. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 142, 238-249	5.5	8
59	Recycling of discarded mobile printed circuit boards for extraction of gold and copper. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00164	5.3	8
58	Characterization and evaluation of discarded hard disc drives for recovery of copper and rare earth values. <i>Journal of Cleaner Production</i> , <b>2020</b> , 249, 119377	10.3	8
57	Kinetics and thermodynamical evaluation of electrode material of discarded lithium-ion batteries and its impact on recycling. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 146, 1819	4.1	8
56	Kinetic and thermodynamic study of potassium recovery from silicate rocks. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , <b>2019</b> , 1-13	0.8	8
55	Rapid recycling of spent lithium-ion batteries using microwave route. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 147, 226-233	5.5	8
54	Processing of Coal Fly Ash for the Extraction of Alumina Values. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 294-306	2.7	7

53	Recovery of copper values from discarded random access memory cards via fluidization and thermal exposure. <i>Journal of Cleaner Production</i> , <b>2020</b> , 256, 120516	10.3	7
52	A comprehensive review on the recycling of discarded printed circuit boards for resource recovery. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 178, 106027	11.9	7
51	Investigation of mechanical and thermal activation on metal extraction from red mud. <i>Sustainable Materials and Technologies</i> , <b>2021</b> , 27, e00246	5.3	7
50	Processing of Mica for Extraction of Alumina and Potash Values. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 23-33	1.2	7
49	Microwave processing of spent coin cells for recycling of metallic values. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124144	10.3	7
48	Utilization of Mica for Potassium Recovery. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17030-17034	1.4	7
47	Evaluation of Mica as a Source of Potash. <i>Mining, Metallurgy and Exploration</i> , <b>2019</b> , 36, 547-555	1.1	6
46	Recycling of Discarded Tubular Lights for Recovery of Rare Earth Values. <i>Jom</i> , <b>2020</b> , 72, 823-830	2.1	6
45	Evaluation of carbothermal reduction for processing of banded hematite jasper ore. <i>Powder Technology</i> , <b>2020</b> , 362, 826-834	5.2	5
44	Evaluation of in-situ microwave reduction for metal recovery from spent lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00201	5.3	5
43	Evaluation of microwave acid baking on Indian red mud sample. <i>Minerals Engineering</i> , <b>2021</b> , 160, 106686	4.9	5
42	Microwave acid baking process for recovery of rare-earth concentrate from phosphor of end-of-life fluorescent lamps. <i>Journal of Cleaner Production</i> , <b>2021</b> , 307, 127235	10.3	5
41	Microwave Exposure of Discarded Hard Disc Drive Magnets for Recovery of Rare Earth Values. <i>Jom</i> , <b>2019</b> , 71, 2345-2352	2.1	4
40	Understanding the Agglomeration Behavior of Selected Copper Ores Using Statistical Design of Experiments. <i>Mineral Processing and Extractive Metallurgy Review</i> , <b>2015</b> , 36, 13-25	3.1	4
39	Thermal and Mechanical Activation of Sericite for Recovery of Potash Values. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 17-25	1.2	4
38	Recovery of Iron Values from Discarded Iron Ore Slimes. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 287-295	1.1	4
37	Investigation of microwave reduction of low-grade banded iron ores. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , <b>2019</b> , 1-9	0.8	3
36	Evaluation of carbothermic processing for mixed discarded lithium-ion batteries. <i>Metallurgical Research and Technology</i> , <b>2020</b> , 117, 302	0.9	3

35	Characterization and recycling potential of the discarded cathode ray tube monitors. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 169, 105469	11.9	3
34	Investigation of Different Processing Routes for Rare Earth Extraction from Discarded Tubular Lights. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 269-280	2.7	3
33	Comparison of different routes for recovery of metals from electronic scrap. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17046-17054	1.4	3
32	Up-gradation of banded iron ores for pellet grade concentrate. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17035-17040	1.4	3
31	Microwave acid baking of red mud for extraction of titanium and scandium values. <i>Hydrometallurgy</i> , <b>2021</b> , 204, 105704	4	3
30	Microwave-Assisted Carbothermal Reduction of Banded Hematite Jasper Ore. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 528-537	2.7	2
29	Microwave Processing of Banded Magnetite Quartzite Ore for Iron Recovery. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1697-1705	1.2	2
28	Processing of Discarded Printed Circuit Board Fines via Flotation. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 631-642	2.7	2
27	Microwave Processing of Electrode Active Materials for the Recovery of Cobalt, Manganese, and Lithium. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 1285-1295	1.1	2
26	Hydrometallurgical Investigation of Sericite Clay for Extraction of Alumina and Potash Under Controlled Conditions. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 911-921	1.1	2
25	Investigation of Discarded Printed Circuit Boards for Recovery of Copper Values. <i>Jom</i> , <b>2020</b> , 72, 2983-2992	2.2	2
24	Recovery of Copper Values from Discarded Printed Circuit Boards. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 2015-2023	1.2	2
23	A critical review of end-of-life fluorescent lamps recycling for recovery of rare earth values. <i>Sustainable Materials and Technologies</i> , <b>2022</b> , e00401	5.3	2
22	Recycling of discarded coin cells for recovery of metal values. <i>Minerals Engineering</i> , <b>2020</b> , 159, 106650	4.9	2
21	Processing End-of-Life Tube Lights for Recovery of Rare Earth Oxides. <i>Jom</i> , <b>2021</b> , 73, 1090-1102	2.1	2
20	Comparative study of low-grade banded iron ores for iron recovery. <i>Metallurgical Research and Technology</i> , <b>2020</b> , 117, 403	0.9	1
19	Evaluation of carbothermal reduction for processing of banded hematite quartzite iron ore. <i>Canadian Metallurgical Quarterly</i> , <b>2020</b> , 59, 125-133	0.9	1
18	Processing of Banded Hematite Quartzite Ore for Recovery of Iron Values. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 507-517	1.1	1

17	Physical Processing of Discarded Integrated Circuits for Recovery of Metallic Values. <i>Jom</i> , <b>2020</b> , 72, 2730-2738	2.2	1
16	Population Balance Model for Crushed Ore Agglomeration for Heap Leach Operations. <i>KONA Powder and Particle Journal</i> , <b>2014</b> , 31, 200-213	3.4	1
15	A Review on Recycling of End-of-Life Light-Emitting Diodes for Metal Recovery. <i>Jom</i> , <b>2022</b> , 74, 599-611	2.1	1
14	Mechano-Chemical Processing of Diaspore Sample for Extraction and Synthesis of Gamma-Alumina and Potash Values. <i>Jom</i> , <b>2020</b> , 72, 3367-3376	2.1	1
13	Kinetic Evaluation of In-Situ Carbothermic Processing of Mixed Electrode Material of Discarded Li-Ion Batteries. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 3078-3092	2.5	1
12	Characterization and Evaluation of Recycling Potential for Discarded Laptops. <i>Mining, Metallurgy and Exploration</i> , <b>2021</b> , 38, 2117-2131	1.1	1
11	Investigation of Microwave Exposure on Beneficiation of Low-Grade Banded Iron Ore. <i>Mining, Metallurgy and Exploration</i> , <b>2019</b> , 36, 327-334	1.1	1
10	Microwave Processing of Low-Grade Banded Iron Ore with Different Reductants. <i>Mining, Metallurgy and Exploration</i> , <b>2021</b> , 38, 151-160	1.1	1
9	Recovery of Metals from Discarded Integrated Circuits. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 1641-1651	1.1	0
8	Microwave-Assisted Carbothermic Reduction of Discarded Rare Earth Magnets for Recovery of Neodymium and Iron Values. <i>Jom</i> , <b>2021</b> , 73, 54-62	2.1	0
7	Investigation of Microwave and Thermal Processing of Electrode Material of End-of-Life Ni-MH Battery. <i>Jom</i> , <b>2021</b> , 73, 951-961	2.1	0
6	Process flowsheet for extraction of Fe, Al, Ti, Sc, and Ga values from red mud. <i>Minerals Engineering</i> , <b>2022</b> , 184, 107601	4.9	0
5	Processing of Glauconitic Siltstone for Potash Recovery. <i>Mining, Metallurgy and Exploration</i> , <b>2020</b> , 37, 1231-1239	1.1	
4	Carbothermic Microwave Processing for the Enrichment of Iron Ore Fines. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 355-366	2.7	
3	Characteristics of Nickel Laterite Crushed Ore Agglomerates <b>2013</b> , 125-139		
2	Comparison and evaluation of alumino-silicate samples as a dual source of alumina and potash values. <i>Canadian Metallurgical Quarterly</i> , 1-14	0.9	
1	Evaluation of Baking Process for Rare-Earth Recovery from Discarded Tube Lights Phosphor. <i>Mining, Metallurgy and Exploration</i> , 1	1.1	