

RESEARCH PUBLICATIONS

No.	Details of publications	Journal/vol./page no.	Year	Impact Factor
1.	Sukhbaatar, T., Piton, R., Giusti, F., Arrachart, G., Duvail, M., Kumari, Aarti , Daware, S, Gupta, S., Goverapet, S., Sahu, S. K., Rai, B., Pellet-Rostaing, S. Lipophilic EDTA-based ligands in different diluents for the extraction of rare earths: Preliminary results with Nd(III), Dy(III) and Pr(III) in chloride and nitrate media.	Hydrometallurgy , 231, 106415	2024	4.8
2.	S. Pramanik, Aarti Kumari , M. K. Sinha, B. Munshi, S. K. Sahu. Extraction of metal values from iron-rich mine tailings via chloridized roasting and water leaching.	Waste Management Bulletin , 2(2), 113-121	2024	-
3.	Aarti Kumari , S. K. Sahu. A comprehensive review on recycling of critical raw materials from spent neodymium iron boron (NdFeB) magnet	Separation & Purification Technology , 317, 123527	2023	8.6
4.	S. Pramanik, Aarti Kumari , M. K. Sinha, B. Munshi, S. K. Sahu. Valorization of phosphor powder of waste fluorescent tubes with an emphasis on the recovery of terbium oxide (Tb ₄ O ₇)	Separation & Purification Technology , 322, 124332	2023	8.6
5.	Aarti Kumari , Dipali, N. S. Randhawa, S. K. Sahu., 2021. Electrochemical treatment of spent NdFeB magnet in organic acid for recovery of rare earths and other metal values.	Journal of Cleaner Production , 309, 127393	2021	11.1
6.	Aarti Kumari , R. Raj, N. S. Randhawa, S. K. Sahu., 2021. Energy efficient process for recovery of rare earths from spent NdFeB magnet by chlorination roasting and water leaching.	Hydrometallurgy , 201, 105581	2021	4.8
7.	Aarti Kumari , K. K. Sahu, S.K. Sahu., 2019. Solvent Extraction and Separation of Nd, Pr and Dy from Leach Liquor of Waste NdFeB Magnet Using the Nitrate Form of Mextral (R) 336At in the presence of Aquo-Complexing Agent EDTA.	Metals , 9 (2), 269.	2019	2.9
8.	R. Raj, D. K. Sahu, Aarti Kumari , R. Prasad, S. Ranganathan., 2019. Carbothermic Reduction of Iron Oxide Waste Generated During the Processing of Ilmenite.	Transactions of the Indian Institute of Metals , 72(1), 11-16.	2019	1.6
9.	Aarti Kumari , M. K. Sinha, S. Pramanik, S. K. Sahu, 2018. Recovery of rare earths from spent NdFeB magnets of wind turbine: Leaching and kinetic aspects.	Waste Management , 75,486-498.	2018	8.1

10.	M. K. Sinha, S. Pramanik, Aarti Kumari , S. K. Sahu, L. B. Prasad, M. K. Jha, K. Yoo, B. D. Pandey, 2017. Recovery of value added products of Sm and Co from waste SmCo magnet by hydrometallurgical route.	Separation and Purification Technology , 179, 1-12.	2017	8.6
11.	Aarti Kumari , M. K. Sinha, S. K. Sahu, B. D. Pandey, 2016. Solvent Extraction and Separation of Trivalent Lanthanides Using Cyphos IL 104, A Novel Phosphonium Ionic Liquid as Extractant.	Solvent Extraction and Ion Exchange , 34(5), 469-484.	2016	2.0
12.	Aarti Kumari , M. K. Sinha, S. K. Sahu, B. D. Pandey, 2016. Investigation of a novel ionic liquid, Cyphos IL 104 for the solvent extraction of mineral acids.	Hydrometallurgy , 165(1), 159-165.	2016	4.8