

RESEARCH PAPERS

Jain, P. K. (2021), An analytical approach to explain complex flow in spiral concentrator and development of flow equations, *Minerals Engineering*, 2021, 107027, ISSN 0892-6875, <https://doi.org/10.1016/j.mineng.2021.107027>

Jain, P. K. (2021). A novel concept of composite coefficient of friction for slurry systems and development of flow equations for spiral concentrators. *Powder Technology*, 386, 411–419. <https://doi.org/10.1016/j.powtec.2021.03.058>

Jain, P. K., & Rayasam, V. (2017). An analytical approach to explain the generation of secondary circulation in spiral concentrators. *Powder Technology*, 308, 165–177. <https://doi.org/10.1016/j.powtec.2016.11.040>

Jain, P. K., Bhattacharya, S., & Kumar, S. (2016). Recovery of combustibles from electrostatic precipitator discharge. *Waste Management and Research*, 34(6). <https://doi.org/10.1177/0734242X16636956>

BOOKS & MONOGRAPHS

Authors	Title of Book/ Chapter	Publisher	Year of Publication	ISSN/ISBN
Pankaj Kumar Jain	Gravity (Density) Separation	Elsevier	2024	
Pankaj Kumar Jain	Electrostatic Separation	Elsevier	2024	
Pankaj Kumar Jain	Magnetic Separation	Elsevier	2024	
Pankaj Kumar Jain, N R Mandre, Sumantra Bhattacharya	Flotation	Elsevier	2024	

PATENTS

Title	Inventor	Year of filing	Application No./ Patent No.*	Status
A method and device for concentration of solar radiation and obtaining concentrated plane beam	Pankaj Kumar Jain,	2010	293820	Granted
A shredding device for shredding plastic and paper material into near powdered form and method thereof	Pankaj Kumar Jain, Prof. Anangamohan Chattopadhyay	2016	427735	Granted
An Improved Design Of Sharpening Tool With Its Application In The Pencil Sharpener	Pankaj Kumar Jain,	2021	202031045441	Under Amended Examination, Published on 4 Dec 2020
A device to clean ambient air with filter cloth and a method of recovery thereof	Pankaj Kumar Jain, Kesavan Ravi	2021	202131012695	FER Issued, Published on 30 Sep 2022