

Shravan Kumar - Research Publications in International Journals

1. Imkong Rathi & **Shravan Kumar** (2025), Innovative study on chalcopyrite flotation efficiency with xanthate and ester collectors blend using response surface methodology (B.B.D): towards sustainability. Scientific Reports, (doi.org/10.1038/s41598-024-81193-5).
2. Prabhu Chand Kukkala, **Shravan Kumar**, Akhileshwar Nirala, Mohammad Amir Khan, Meshel Q. Alkahtani & Saiful Islam (2024), Beneficiation of Low-Grade Hematite Iron Ore Fines by Magnetizing Roasting and Magnetic Separation. ACS Omega, (doi.org/10.1021/acsomega.3c06802).
3. Imkong Rathi & **Shravan Kumar** (2024), Statistical Evaluation of Flotation Behavior of Chalcopyrite in the Presence of SIPX and Acetoacetic Acid n-Octyl Ester as a Novel Collector Blend: A Sustainable Approach. Minerals, (doi.org/10.3390/min14101003).
4. Vivek Kumar, Vinod Kumar Saxena, Rakesh Kumar & **Shravan Kumar** (2023), Energy, exergy, sustainability and environmental emission analysis of coal-fired thermal power plant. Ain Shams Engineering Journal, (doi.org/10.1016/j.asej.2023.102416).
5. T. Santosh, Rahul K. Soni, C. Eswaraiah & **Shravan Kumar** (2022), Application of artificial neural network method to predict the breakage properties of PGE bearing chromite ore. Advanced Powder Technology, (doi.org/10.1016/j.appt.2022.103450).
6. Sagarika Nanda, **Shravan Kumar** & N. R. Mandre (2022), Flotation behavior of a complex lead-zinc ore using individual collectors and its blends for lead sulfide. Journal of Dispersion Science and Technology, (doi.org/10.1080/01932691.2022.2036185).
7. T. Santosh, Rahul K. Soni, C. Eswaraiah, **Shravan Kumar**, D. S. Rao & R. Venugopal (2022). Modeling and application of stirred mill for the coarse grinding of PGE bearing chromite ore. Separation Science and Technology, (doi.org/10.1080/01496395.2022.2075754).
8. T. Santosh, C. Eswaraiah, Rahul K. Soni & **Shravan Kumar** (2022), Size reduction performance evaluation of HPGR/ball mill and HPGR/stirred mill for PGE bearing chromite ore. Advanced Powder Technology, (doi.org/10.1016/j.appt.2022.103907).
9. Sanjeet Kumar Suman & **Shravan Kumar** (2019), Reverse flotation studies on iron ore slime by the synergistic effect of cationic collectors. Separation Science and Technology, (doi.org/10.1080/01496395.2019.1604757).
10. Sanjeet Kumar Suman & **Shravan Kumar** (2019) "Reverse flotation studies on iron ore slime by the synergistic effect of cationic collectors", Separation Science and Technology, DOI: 10.1080/01496395.2019.1604757.

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11. Puja Hansdah, **Shravan Kumar** (2019) “Analysis of settling performance of coal fines tailing polymer using central composite rotatable design optimization” International Journal of Coal Preparation and Utilization, DOI: 10.1080/19392699.2019.1590344, March 2019.
12. Puja Hansdah, **Shravan Kumar** & N. R. Mandre (2018) “Optimization of settling characteristics of coal fine tailings with an anionic polyacrylamide using response surface methodology”, International Journal of Coal Preparation and utilization, (doi.org/10.1080/19392699.2018.1483354).
13. **Shravan Kumar**, Sanjeet Kumar Suman (2018) “Compressive strength of fired pellets using organic binder: Response surface approach for analyzing the performance “Transaction of the Indian Institute of Metals, (DOI 10.1007/s12666-018-1297-9, Published March 2018).
14. **Shravan Kumar**, R. **Venugopal** (2017), “Coal cleaning using jig and response surface approach for determination of quality of clean coal”, International Journal of Coal Preparation and Utilization, (doi.org/10.1080/19392699.2017.1346631), Published July 2017).
15. Kichakeswari Tudu, **Shravan Kumar** & N. Mandre (2018) Enhanced recovery of low-grade iron ore by selective flocculation method, Journal of Dispersion Science and Technology, DOI:10.1080/01932691.2017.1382371.
16. Puja Hansdah, **Shravan Kumar** & N. R. Mandre (2017) Dewatering performance of coal fines refuse slurry and development of the water recovery index, Energy /Sources, Part A: Recovery, Utilization, and Environmental Effects, 39:14, 1565-1571, DOI: 10.1080/15567036.2017.1347729.
17. Puja Hansdah, **Shravan Kumar** & N. R. Mandre (2018): Performance optimization of dewatering of coal fine tailings using Box–Behnken design, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Volume 40:1, 75-80 DOI: 10.1080/15567036.2017.1405112.
18. **Shravan Kumar**, N. R. Mandre, S. Bhattacharya, Flocculation studies of coal tailings and development of ‘Settling Index’, International Journal of Coal Preparation and Utilization, Vol. 36, No. 6, 293-305, 2016.
19. **Shravan Kumar**, S. Bhattacharya, N. R. Mandre, Modeling of settling rate of coal fine tailings using 3D response surface methodology, Journal of Dispersion Science and Technology, Vol. 37:251-257, 2016.
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21. Jain P K, Bhattachaya S, **Kumar Shravan**, Recovery of combustibles from electrostatic precipitator discharge, Waste Management and Research, Vol. June 2016 34: 542-552.

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24. **Shravan Kumar**, R Venugopal, Performance analysis of jig for coal cleaning using 3D response surface methodology, International Journal of Mining Science and Technology, Vol. 27: 333-337, 2017.
25. **S. Kumar**, S. Bhattacharya, N.R. Mandre and R. Venugopal, Present Challenges in the performance of coal fines dewatering circuit, Int. J. Engg. Res. & Sci. & Tech, Vol. 3, No. 2, May 2014, 172-179.