

2022-23

JOURNALS

1. Multi-Layer Flexible Packaging: Solution for Sustainable Recycling; **P A Mohamed Najar**, MRAl's Material Recycling, 4(3), 2022, 14-17
2. Nano processing of industrial rejects for controlling operational energy of buildings; Sandeep Tembhurkar, **Priyanka Nayar**, Numanuddin Azad, Upendra Singh, Mangesh Madurwar Advances in Civil Engineering; Jun 2022; <https://doi.org/10.1155/2022/2969266>
3. "Effect of geological, mineralogical characteristics on grindability of Bauxite: A case study on Indian lateritic bauxite deposits" P G Bhukte; Journal of the Geological Society of India, Vol.99, Jan 2023 pp 55-60, Springer, *SCIE*
4. Zero Residual Heavy Metals in Aqueous Media Using Composite Coagulant Converted from Bauxite Residue; S. Hena, N. F. bt Abdullah, L. C. Keong, **P. A. Mohamed Najar**, L. Gutierrez, J.-P. Croué; International Journal of Environmental Science and Technology, Iranian Society of Environmentalists (IRSEN) and Science and Research Branch, Islamic Azad University, Springer, 19 (07), 2022; <https://doi.org/10.1007/s13762-022-04336-z>, SCIE/SSCI, Indexed, Impact factor **3.519**
5. Influence of aluminum trihydrate (ATH) particle size on mechanical, thermal, flame retardancy and combustion behavior of polypropylene composites; Malaya Ranjan Parida, Smita Mohanty, Manoranjan Biswal, Sanjay K Nayak, **Suchita Rai**, Journal of Thermal Analysis and Calorimetry. <https://doi.org/10.1007/s10973-022-11851-1>. 08.12.022. Springer Nature, **SCI**, IF: 4.755
6. A critical review on nanomaterial based therapeutics for diabetic wound healing; Swati Sucharita Singh, Susanta Kumar Behera, **Suchita Rai**, Suraj Tripathy, Snakha Chakraborty, Amrita Mishra, Biotechnology and Generic Engineering Reviews, <https://doi.org/10.1080/02648725.2022.2161732>. 28.12.2022. Taylor and Francis, SCIE, IF: 4.200
7. Granulometry Impact on Digestion Efficiency and Cost-Economics in Alumina Refinery for East Coast Bauxite (India); **Suchita Rai**, M.J. Chaddha, Prachiprava Pradhan, K. J. Kulkarni, M. Panchal In: Broek, S. (eds) **Light Metals 2023. TMS 2023**. The Minerals, Metals & Materials Series. Springer, Cham. **156-165, 2023**; https://doi.org/10.1007/978-3-031-22532-1_19.
8. An overview of research progress on ceramic-based membranes; **Prachiprava Pradhan**, Ajit P Rathod, Suchita B Rai, Soumya S Mohapatra, Materials Today: Proceedings, Elsevier, March 2023; <https://doi.org/10.1016/j.matpr.2023.03.300>
9. Use of red mud as advanced soil stabilization material, **Suchita Rai**, Sneha Bhadure, M. J. Chaddha, A. Agnihotri; *Advanced Materials from Recycled waste*, Book Chapter (Publisher: Elsevier), Chapter 3:2023 Pg: 45-56. <https://doi.org/10.1016/B978-0-323-85604-1.00016-0>

CONFERENCE PROCEEDINGS

26th International Conference on Non-Ferrous Metals (ICNFM 2022); 8-9 July 2022 - Hotel Radisson Blu, Nagpur, India

10. Standardisation in Aluminium Recycling Practices: **Anil Kumar R**
11. Study on the improvement of yield and formation of Tricalcium Aluminate using synthetic Bayer liquor: **Prachiprava Pradhan**, M J Chaddha, S B Rai, M Najar, K J Kulkarni, Megha Panchal and A Agnihotri
12. Fabrication of Sapphire from 3N Pure Alumina prepared by Combustion Approach: **Priyanka Nayar**, Janakiraman Kumar, Anna University, Chennai
13. Anode current distribution system for aluminium electrolysis cell: **V K Jha**
14. Preparation of Poly Aluminium Chloride-A bench scale study; **Jyoti Pendum**, Sonali Thawrani, Mayur Tirpude Upendra Singh and Anupam Agnihotri

10th IBAAS-2022 Raipur; 15-17 Sep 2022

15. Non-metallurgical Grade Bauxite - Status & Future Prospects; Binder :Volume X; pp 212-223 ; **P.G. Bhukte**, G.T. Daware, M.J. Chaddha, A. Agnihotri, and G.P. Thakre (2022);
16. Anode current distribution system for aluminium electrolysis cell, **V K Jha**, R J Sharma, M T Nimje & A Agnihotri,
17. Industry 4.0 for Indian Aluminium Smelters, **V K Jha**, R J Sharma, M T Nimje & A Agnihotri
18. Precipitation process intensification using mixed seed in Bayer circuit; **Suchita Rai**, M. J. Chaddha Prachi Pradhan, R. J. Sharma, M. T. Nimje, K. J. Kulkarni, M. Panchal, A. Agnihotri
19. Synthesis of 3N Pure Alpha Nano-Alumina from Aluminium Foil; **Priyanka Nayar**, Pooja Yadav, Sandeep Kowe, Jyoti Pendum, Upendra Singh, Anupam Agnihotri
20. Effect of ram speed on evolution of Peripheral coarse grain during extrusion of AA2024 alloy **Immanuel Raju K**, V.N.S.U.Viswanath Ammu, Anil R, Anas N S, R N Chouhan and Dr Anupam Agnihotri

40th International Conference and Exhibition, ICSOBA 2022, Athens, Greece; 10-14 Oct 2022

21. Framework to Drive Resource Efficiency and Circular Economy in Indian Aluminium Sector, **Dr A Agnihotri**

International Conference & Exhibition on Mineral Business Development (MBD-2022): Prospects and Challenges of Mineral Based Products and Utilization of Wastes for the 'Make in India' Initiative, Nagpur, 10-12 Nov 2022

22. Commercial and Technical Prospects of Unused Mineral Values of Aluminium Industry; pp 246-255 **Mohamed Najar**, Pravin Bhukte, Upendra Singh, Manoj Nimje and Anupam Agnihotri.

23. Beneficiation and Extraction of Strategic Scandium (Sc) from Aluminium Industry Waste Residue; **Upendra Singh**, Jyoti Pendam, Sonali Thawrani, Mayur Tirpude & Anupam Agnihotri
24. Characterization and Beneficiation of Pyrophyllite; pp 134-141; **P G Bhukte**, G T Daware, M J Chaddha, T P Bhosale, A Agnihotri
25. Potential application of Red Mud in Cement; **Suchita Rai**, M. J. Chaddha Prachi Pradhan, K. J. Kulkarni, M. Panchal, A. Agnihotri

IIM ATM 2022, 13-16 Nov. 2022, Hyderabad

26. Comparison of Peripheral Coarse grain formation in AA6063 and AA2024 aluminium alloys. **Immanuel Raju K**, V.N.S.U.Viswanath Ammu, Anil R, R N Chouhan and Dr Anupam Agnihotri

2nd International Conference on Water Technologies 2022, 01-02 Dec 2022

27. Synthesis and characterization of low-cost Cenosphere Ceramic membrane, Prachiprava Pradhan, Ajit P Rathod, S B Rai, A. Agnihotri

2nd International Conference on Construction Materials and Structures (ICCMS 2022), Department of Civil Engineering National Institute of Technology Calicut, Kerala, Dec 14-18, 2022.

28. Process for Recovery and Value Addition of Silica Mineral Values of Distingly Siliceous Mining Rejects; **Mohamed Najar**, Amrita Karn, Shweta Naik, Upendra Singh and Anupam Agnihotri
29. Feasibility Analysis of Mustard Husk Ash for the Development of Geopolymer Mortar; Vishakha Sakhare and **Mohamed Najar**

International Conference on advances in smart materials, chemical & biochemical engineering (Chemsmart-22), 16-18 Dec 2022.

30. Study on formation of Tricalcium Aluminate from Synthetic and Plant sodium aluminate liquor in Bayer process; **Prachiprava Pradhan**, M J Chaddha, S B Rai, K J Kulkarni, Megha Panchal, Anupam Agnihotri

International Aluminium Conference (IAC 2023); organized by AAI, Vedanta and Caproate Monitor, February 09-10, 2023, Jharsuguda, Odisha

31. Upgradation of low-grade bauxite- A case study of Mainpat deposit (Chhattisgarh, India); Pravin G. Bhukte, G. T. Daware, T P Bhosale & A Agnihotri

7th International Conference on Production & Industrial Engineering CPIE 2023, 10-12 March, 2023) CPIE Conference, NIT Jalandhar

32. Peripheral coarse grain formation in AA2024 and AA6063 aluminium alloys - a comparative study Immanuel Raju K, V.N.S.U.Viswanath Ammu, Anil R, R N Chouhan and Dr Anupam Agnihotri

23rd International Conference on Powder Metallurgy, 13-15 March 2023, Mumbai

33. Effect of Preheat Temperature on Compaction of Machined AA2024 Swarf; N S Anas, Kapilkumar N Ramteke, R Anil Kumar, K I Raju, VNSUV Ammu, R N Chouhan, A Agnihotri

Indian Analytical Science Congress 2023, Kochi, Kerala, 23-25 Mar 2023

34. Role of Analytical Science in Achieving India's Centenary Sustainable Development Goals', Upendra Singh & Anupam Agnihotri

14th International Conference for Materials Processing and Characterization, 24-26th March 2023, GRIET Hyderabad ;

35. Effect of Compaction Pressure on Cold Compaction of AA2024 Swarf Generated during Milling Operation; N S Anas, K N Ramteke, R A Kumar, R N Chouhan, A Agnihotri