

2018-19

**Journals :**

1. *Microstructure and texture development during deformation and recrystallisation in strip cast AA8011 aluminium alloy*, Ranjeet Kumar, Aman Gupta, Amit Kumar, R N Chouhan, Rajesh K. Khatirkar; *Journal of Alloys and Compounds*, 742, 369-382, April 2018.
2. *Mathematical model for estimating variation in specific energy consumption with respect to capacity utilization for aluminium smelting plant*, V K Jha, A Agnihotri, R J Sharma, M J Chaddha; *Springer, Energy Efficiency*, 11 (3), 773-776, 2018.
3. *A simplified approach for generation of bearing curve by velocity distribution and press validation for aluminium extruded profile*, VNSUV Ammu, P Mahendiran, Anupam Agnihotri, Samrat Ambade, P R Dungore; *The International Journal of Advanced Manufacturing Technology*, Vol- 98(5-8), 1733-1744, Sept 2018.
4. *Preparation of Fe/Ti/Al nano-particles and mixed nano-composites from aluminium industrial wastes*, Priyanka Nayar, Mohamed Najar, Prajakta Ogale, Shama Wadsariya, Suresh Puttewar and Anupam Agnihotri; *Journal of Electronic Design Technology*, 9 (2), 24-29, 2018.
5. *Quantitative determination of metals in waste aluminium dross*, Upendra Singh, M S Ansari, S A Thawrani, D R Meshram, S P Puttewar, A Agnihotri; *Journal of Applied Chemistry*, 11 (9), 1-4, 2018.
6. *Studies on physical beneficiation & characterization for extraction of rare earths from bauxite residue*, Upendra Singh, Sonali Thawrani, M S Ansari, Mayur Tirpude, S P Puttewar, Anupam Agnihotri; *Metal Asia Magazine*, 7, 124, July 2018.
7. *Fabrication of AA1050/B4C surface composite by Friction Stir Processing (FSP) and investigation on mechanical and wear characteristics*, Hemendra Patle, Ashish Gupta, P Mahendiran and Ravikumar Dumpala; *IOP Conference Series: Materials Science and Engineering*, 402(1), Oct 2018.
8. *Development of Super Thermal Resistant Al-Zr Alloy for Overhead Transmission Lines*, R N Chouhan, A Agnihotri, *MRAI Journal, MATERIAL RECYCLING* Feb 2019; 1(1), pp 62

**Conference Proceedings.**

9. प्रविण भुक्ते, मोहमद नजर, सुरेश पुट्टेवार, अनुपम अग्निहोत्री; मूल्यवर्धित उत्पाद के लिए बॉक्साइट खान की अपव्ययी के प्रसंस्करण; अखिल भारतीय राजभाषातकनीकी सेमिनार; भारतीय खान बुरों, नागपुर (अप्रैल १९, २०१९)

**DST-TIFAC Meet, Nagpur (April 2018)**

10. *Status of Lateritic Bauxite deposits: possibilities for up gradation: Pravin G Bhukte; Brainstorming Session on "Opportunities & Potential of value addition in Bauxite: Technical Needs, Requirement and Way Forward" DST-TIFAC & JNARDDC, April 09, 2018*
11. *Development of value added products from un utilized materials (Bauxite Mine): Pravin G Bhukte; Brainstorming Session on "Opportunities & Potential of value addition in Bauxite: Technical Needs, Requirement and Way Forward" DST-TIFAC & JNARDDC, April 09, 2018*

**BR2018, Athens, Greece, May 2018**

12. *Innovative process for extraction of iron values from east coast bauxite residue with gainful application of non-iron materials; S K Biswal, B K Sathpathy, A Agnihotri, D P Chakravarthy; 2nd Bauxite Residue Valorisation and Best Practices Conference (BR2018), Athens, Greece, May 7-10, 2018*

**Conference on "Advancement of Refractory Application in Aluminium Industries, VEDANTA (June 2018)**

13. *Aluminium dross: A suitable material for refractory application* : Upendra Singh, M S Ansari, SonaliThawrani, MayurTirpude, AnupamAgnihotri; Conference on “Advancement of Refractory Application in Aluminium Industries” Vedanta, Jharsuguda June 21-22, 2018
14. *Processing of low grade materials for refractory application*: Pravin G Bhukte S P Puttewar, and A Agnihotri, Conference on “Advancement of Refractory Application in Aluminium Industries” Vedanta, Jharsuguda June 21-22, 2018

**ICNFMM-2018, Ranchi (July 2018)**

15. *PAT scheme normalization factors for Indian aluminium smelter plants*, A Agnihotri, V K Jha, & R J Sharma, at 22nd International Conference on Non-ferrous Minerals & Metals (ICNFMM-2018), Ranchi, 6-7 July, 2018.
16. *Beneficiation & characterization of rare earths from red mud*, Upendra Singh, SonaliThawrani, M S Ansari, MayurTirpude, S P Puttewar, AnupamAgnihotri; 22nd International Conference on Non-ferrous Minerals & Metals (ICNFMM-2018), Ranchi, 6-7 July, 2018.
17. *Studies on Physical Beneficiation & Characterization for Extraction of Rare Earths from Bauxite Residue* :DrUpendra Singh, 22nd International Conference on Nonferrous Minerals and Metals (ICNFMM-2018), Ranch, 6-7 July, 2018.

**Conference on Extrusion Dies and Tooling, Pune (July 2018)**

18. *The effects of split ratio on extrusion pressure in a generic tube profile of AA6063 using porthole dies by numerical simulation* V.N.S.U.Viswanath Ammu, P.Mahendiran, PirozeDungore, R.N.Chouhan, SamratAmbade in One day Conference on Extrusion Dies and Tooling at Pune 25th July 2018 by Aluminium Extruder’s Council of India

**IBAAS-2018, Mumbai (Sept 2018)**

19. *Energy Consumption in Aluminium Electrolysis & Perform, Achieve & Trade (PAT)*, A Agnihotri & V K Jha at 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018
20. *Pre-concentration & extraction of strategic rare earths from Indian red mud*, Upendra Singh, SonaliThawrani, B R Mishra, AnupamAgnihotri; 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018.
21. *Effect of seed properties on liquor productivity & product quality in precipitation process for development of special products*, SuchitaRai, M J Chaddha, M T Nimje, R J Sharma, K J Kulkarni, Megha Panchal, SwetaModak, Vicky Dhongde and A. Agnihotri; 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018.
22. *Significance of geo-informatics technology in the evaluation of lateritic bauxite deposits*” P G Bhukte, A S Deshpande, A Agnihori, S N Das, PremBabu, S P Puttewar, M J Chaddha, G T Daware, S Y Bhange, V M Kale; 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018
23. *Die design for generic tube profile using port hole die*” V.N.S.U.ViswanathAmmu, P.Mahendiran, PirozeDungore, R.N.Chouhan, SamratAmbade: 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018
24. *“R&D Activities at JNARDDC for Utilization of Aluminium Industry Wastes, IBAAS, 2018”* : M T Nimje, M J Chaddha, Mohamed Najar, SuchitaRai, Upendra Singh, S U Bagde, SnehaDwivedi, Priyansh Singh, AnupamAgnihotri : 7th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS), Mumbai, 5-7 September, 2018
25. *Indian Technology Road Map for Aluminium: Vision 2030*, AnupamAgnihotri; 7th International Bauxite, Alumina & Aluminium Conference & Exhibition, Mumbai, 5-7 September 2018.
26. *Microstructural Characteristics of Strip Cast Aluminium Alloys*, R.N. Chouhan, P.Dungore, and Rajesh Khatirkar(VNIT), 7th International Bauxite, Alumina & Aluminium Conference & Exhibition, Mumbai, 5-7 September 2018.

27. *Process for potential utilization of bauxite residue for extraction of rare earths*, Upendra Singh, B R Mishra & Anupam Agnihotri; International Conference on Science, Technology and Application of Rare Earths (ICSTAR), Tirupati, 23-25 September, 2018.

**1<sup>st</sup> HINDALCO Alumina Conference 2018 (Oct 2018)**

28. *JNARDDC approach to increase extraction and improve plant productivity*, Suchita B Rai; 1st HINDALCO Alumina Conference 2018 on Alumina Refining Technology: Design and Process Development, Utkal Alumina International Limited, Raygada, 4-6 October, 2018.

**(ICONSEA-2018), JNTU, Hyderabad, (Oct 2018)**

29. *Autogenous dissolution and nano processing of iron in red mud: Green chemistry for value addition and recovery of materials*, Mohamed Najar P A, Amrita Karn, Sneha Dwivedi, Priyanka Nayar, Suresh Puttewar and Anupam Agnihotri; 2nd International Conference on Nano Science and Engineering Applications (ICONSEA-2018), JNTU, Hyderabad, 4-6 October, 2018.
30. *Comparative study of phase transformation of Al<sub>2</sub>O<sub>3</sub> nanoparticles prepared by chemical precipitation and sol-gel auto combustion methods*, Priyanka Nayar, Sayali Waghmare, Priyansh Singh, Mohamed Najar, Suresh Puttewar and Anupam Agnihotri; 2nd International Conference on Nano Science and Engineering Applications (ICONSEA-2018), JNTU, Hyderabad, 4-6 October, 2018
31. *A viable process for recovery and value addition of mineral values: Preparation of calcium nanoparticles from industrial rejects*, Sayali Waghmare, Priyansh Singh, Priyanka Nayar, Mohamed Najar, Suresh Puttewar and Anupam Agnihotri; 2nd International Conference on Nanoscience and Engineering Applications (ICONSEA-2018), JNTU, Hyderabad, 4-6 October, 2018

**GREEN ASHCON-2019 (Jan 2019)**

32. *Recovery of silica from Coal Fly Ash (CFA)*, International conference on Technological developments on fly ash utilization, M. T. Nimje MT, Rai SB, Jha VK, Bagde SU, Agnihotri A (2019). GREEN ASHCON- 2019, 11th-13th Jan. 2019 at Nagpur, India.

**INCAL-2109, Bhubaneswar (Jan-Feb 2019)**

33. *Innovative process for boehmite precipitation in Bayer circuit*, Rai SB, Chaddha MJ, Kulkarni KJ, Nimje MT, Rao KR, Mahendiran P, Sharma RJ, Agnihotri A (2019). 7th International Conference & exhibition on Aluminium, INCAL-2019, 31st Jan. -3rd Feb. 2019 at Bhubaneswar. (Poster presentation)
34. *Disposal practices and utilization of red mud: a review in Indian context and abroad*, Rai SB, Bahadure S, Chaddha MJ, Agnihotri A; 7th International Conference & exhibition on Aluminium, INCAL-2019, 31st Jan. -3rd Feb. 2019 at Bhubaneswar. (Poster presentation)
35. *Value-Added Geopolymer Products to Offset Expenditure on Waste Management and Sustainability*, Mohamed Najar\*, Vishakha Sakhare, Shama Wadsariya, Numanuddin Azad, Sneha Dwivedi, Amrita Karn, Pravin Bhukte, Suresh Puttewar And Anupam Agnihotri, 7th International Conference & exhibition on Aluminium, INCAL-2019, 31st Jan. -3rd Feb. 2019 at Bhubaneswar.
36. *Stabilised red mud bricks: JNARDDC experience*, M.J.Chaddha, R.J.Sharma<sup>1</sup>, Dr. S. B. Rai, K.J.Kulkarni, Dr. B.K. Satpathy at 7th International Conference & exhibition on Aluminium, INCAL-2019, 31st Jan. -3rd Feb. 2019 at Bhubaneswar..
37. *Design of Port hole dies and weld strength criteria in aluminium extrusion*. V.N.S.U.Viswanath Ammu, P.Mahendiran, Piroze Dungore, R.N.Chouhan, Samrat Ambad 7th International Conference & exhibition on Aluminium, INCAL-2019, 31st Jan. -3rd Feb. 2019 at Bhubaneswar.