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1. S. Kumar, R. Kumar, A. Bandopadhyay, Innovative methodologies for the utilisation of wastes from metallurgical and allied industries, *Resources, Conservation and Recycling* 48, (2006), 301-314.
2. Ken Evans, The History, Challenges, and New Developments in the Management and Use of Bauxite Residue, *Journal of Sustainable Metallurgy* 2, (2016), 316-331.
3. K. Binnemans, P.T. Jones, B. Blanpain, T.V. Gerven, Y. Pontikes, Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. *Journal of Cleaner Production* 99, (2015), 17-38.
4. EU, Report of the Ad hoc working group on defining critical raw materials, (2014).
5. Y. Liu, R. Naidu, Hidden values in bauxite residue (red mud): Recovery of metals, . *Waste Management* 34, (2014), 2662-2673.
6. C.R. Borra, B. Blanpain, Y. Pontikes, K. Binnemans, T.V. Gerven, Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review, *Journal of Sustainable Metallurgy* 2, (2016), 365-386.
7. A.P. Abbott, G. Frisch, J. Hartley, K.S. Ryder, Processing of metals and metal oxides using ionic liquids, *Green Chemistry* 13, (2011), 471-481.
8. K. Binnemans, P.T. Jones, Solvometallurgy: An Emerging Branch of Extractive Metallurgy, *Journal of Sustainable Metallurgy*, Vol. 3, No. 3, (2017) 570–600.
9. G.-C. Tian, J. Li, Y.-X. Hua, Application of ionic liquids in hydrometallurgy of nonferrous metals, *Transactions of Nonferrous Metals Society of China* 20, (2010), 513-520.
10. I.E. Sajò, XDB powder diffraction phase analytical system, version 3.0, user's guide 2005.
11. P. Davris, E. Balomenos, D. Panias, I. Paspaliaris, Selective leaching of rare earth elements from bauxite residue (red mud), using a functionalized hydrophobic ionic liquid, *Hydrometallurgy* 164, (2016) 125-135.
12. Joseph Gambogi, U.S. Geological Survey, Mineral Commodity Summaries, (2015).
13. E. Balomenos, P. Davris, Y. Pontikes, D. Panias, Mud2Metal: Lessons Learned on the Path for Complete Utilization of Bauxite Residue Through Industrial Symbiosis, *Journal of Sustainable Metallurgy*, (2016).
14. Peter Smith, Reactions of lime under high temperature Bayer digestion conditions, *Hydrometallurgy* 170, (2017), 16-23.
15. M.S. Gruzdev, L.M. Ramenskaya, U.V. Kervonova, R.S. Kumeev, Preparation of 1-butyl-3-methylimidazolium salts and study of their phase behavior and intramolecular interactions, *Zhurnal Obshchi Khimii* 79, (2009), 1720-1727.
16. P. Nockemann, B. Thijs, T.N. Parac-Vogt, K. Van Hecke, L. Van Mervelt, B. Tinant, I. Hartenback, T. Schleid, V.T. Ngan, M.T. Nguyen, K. Binnemans Carboxyl-Functionalized Task-Specific Ionic Liquids for Solubilizing Metal Oxides, *Inorganic Chemistry* 47, (2008), 9987-9999.
17. P. Nockemann, B. Thijs, S. Pittois, J. Thoen, C. Glorieux, K. Van Hecke, L. Van Mervelt, B. Kirchner, K. Binnemans, Task-Specific Ionic Liquid for Solubilizing Metal Oxides, *The Journal of Physical Chemistry B* 110, (2006), 20978-20992.
18. J. Vind, P. Paiste, A. H. Tkaczyk, V. Vassiliadou, D. Panias, The behaviour of scandium in the Bayer process, *Proceedings of 2<sup>nd</sup> European Rare Earth Resources ERES Conference*, Santorini, 28-31/05/2017, 190-191.