

## **APPENDIX**

### **List of Publications in Journals and Conference Proceedings**

### **SCI Publications: 8**

1. **Pratima Meshram, B. D. Pandey, T.R.Mankhand, “Extraction of lithium from primary and secondary sources by pre-treatment, leaching and separation: A comprehensive review”, *Hydrometallurgy*, 150 (2014), 192-208 (IF-2.29)**
2. **Pratima Meshram, B. D. Pandey, T.R.Mankhand, “Hydrometallurgical processing of spent lithium ion batteries (LIBs) in the presence of a reducing agent with emphasis on kinetics of leaching”, *Chemical Engineering Journal*, 281 (2015), 418–427 (IF-5.31)**
3. **Pratima Meshram, B. D. Pandey, T.R.Mankhand, “Recovery of valuable metals from cathodic active material of spent lithium ion batteries: Leaching and kinetic aspects”, *Waste Management*, 45 (2015), 306–313 (IF-3.82)**
4. **Pratima Meshram, B.D. Pandey, T.R. Mankhand, “Leaching of base metals from spent Ni–metal hydride batteries with emphasis on kinetics and characterization”, *Hydrometallurgy*, 158 (2015), 172–179 (IF-2.29)**
5. **Pratima Meshram, B.D. Pandey and T.R. Mankhand. “Process optimization and kinetics for leaching of rare earth metals from the spent Ni-metal hydride batteries”. *Waste Management*, 51 (2016), 196-203 (IF-3.82)**
6. **Pratima Meshram, Abhilash, B.D.Pandey, T.R.Mankhand, H.Deveci, “Comparision of different reductants in leaching of spent lithium ion batteries”, *Journal of Metals*, 68 (10) (2016), 2613-2623 (IF-1.82)**
7. **Pratima Meshram, Abhilash, B.D.Pandey, T.R.Mankhand, H.Deveci, “Acid baking of spent lithium ion batteries for selective recovery of major metals: A two-step process”, *Journal of Industrial & Engineering Chemistry*, 43 (2016), 117–126 (IF-4.18)**
8. **Pratima Meshram, H. Somani, B.D.Pandey, T.R.Mankhand, H.Deveci, Abhilash, “Two stage leaching process for selective metal extraction from spent nickel metal hydride batteries”, *Journal of Cleaner Production*, 157 (2017), 322-332 (IF – 4.96)**

### **Paper Submitted**

1. **Pratima Meshram, Abhilash, B.D.Pandey, T.R.Mankhand, H.Deveci, “Extraction of metals from spent lithium ion batteries: role of acid, reductant and process intensification in recycling”, *Indian Journal of Chemical Technology***

### **Publications in Int. Conf. Proceedings: 2**

1. **Pratima Meshram, B.D. Pandey, T.R. Mankhand (2014), Reductive hydrometallurgical processing of spent lithium ion batteries (LIBs) to synthesise Li/Co based value added**

products. In. Proc. VI<sup>th</sup> Int. Conf. Hydrometallurgy (ICHM-2014), Beijing, China, pp.1118-1130.

2. **Pratima Meshram**, Il Hwan Park, M.K. Jha, B.D. Pandey, T.R. Mankhand (2014), Recovery of metal values from spent Ni-metal hydride batteries. In. Proc. 18<sup>th</sup> Int. Conf. Non-ferrous Minerals & Metals (ICNFM-2014), Nagpur, Eds. Dr. Abhilash, Dr. T. Sreenivas, pp.Tech-17/1-Tech-17/8.

### **Oral Presentation in Conferences**

1. **Pratima Meshram**, B.D. Pandey, T.R. Mankhand, Recycling of Lithium ion batteries for metal extraction: A Comprehensive Review. In: NMD - ATM 2013, 13-15th November 2013, IIT (BHU), Varanasi
2. **Pratima Meshram**, B.D. Pandey, T.R. Mankhand, Reductive hydrometallurgical processing of spent lithium ion batteries (LIBs) to synthesise Li/Co based value added products. VI<sup>th</sup> Int. Conf. Hydrometallurgy(ICHM-2014), Beijing, China
3. **Pratima Meshram**, Il Hwan Park, M.K. Jha, B.D. Pandey, T.R. Mankhand, Recovery of metal values from spent Ni-metal hydride batteries. 18<sup>th</sup> Int. Conf. Non-ferrous Minerals & Metals (ICNFM-2014), Nagpur
4. **Pratima Meshram**, B.D. Pandey, T.R. Mankhand, Leaching behaviour of cathodic active material of spent LIBs, Int. Sem. on Mineral Processing Technology-2014, Vishakhapatnam
5. **Pratima Meshram**, A. Ghosh, Abhilash, B.D. Pandey, Comparison of leaching of metal values by chemical & bioleaching from spent lithium ion batteries, Int. Conf. Low grade ores (IC-LGO 2015), Jamshedpur,
6. **Pratima Meshram**, B.D. Pandey, T.R. Mankhand, Comparative performance of different reductants in leaching of spent lithium ion batteries, Int. Sem. on Mineral Processing Technology-2016, Pune.
7. **Pratima Meshram**, Abhilash, B.D.Pandey, T.R.Mankhand, Haci Deveci, Selective recovery of metals from spent lithium ion batteries, Int. Sem. on Mineral Processing Technology-2017, Mahabalipuram, Chennai.