22nd Iranian Chemistry Conference, 23-25 August, 2023
University of Kurdistan

A brief comment on salt-thermal methods to recycle lithium-ion batteries

Asra Fatemi ziyarat

Applied Chemistry, Faculty of Chemistry, Payam Noor, Saqqez, Kurdistan, Iran

Aseman fatemi7380@gmail.com

Ion-lithium batteries are an essential raw material for the production of most future and current products. Therefore, it is necessary and necessary to recover and recycle them at a low cost. Among the different methods of recycling, salt-thermal method is an efficient and effective method. Salt-thermal methods by producing salt or oxides with lithium defects enable the reuse of lithium ion batteries([1]). In this article, a descriptive and analytical method has been compiled using library resources, which states how the latest recycling technologies work by thermal salt methods. It also examines the advantages and disadvantages of using various methods. in order to take an effective step towards the development of this method in the coming years.

Keywords: Thermal salt methods, lithium batteries, recycling, green chemistry

References

[1] A. Jingjing Zhao, B. Xiang Chen, and C. Dihua Wang, *Green Chemistry*, **2022**, 25, 2992-3015.