

Innovation in manufacturing for new process of sustainable resource recycle

Innovation of Resource Circulation Based on Alkaline Hydrometallurgy

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Summary :

Due to the population growth in the world and the economic growth in developing and emerging countries, generation of used products will increase significantly in the future. In order to create a better future society, worldwide optimization of resource circulation for used products is essential.

The objective of this project is to realize novel and efficient recycling processes for spent lithium-ion rechargeable battery (LIB) and E-scrap that can be carried out all over the world including urban areas and developing countries. For this, we focus on hydrometallurgical processing using alkaline media and develop low-energy-consuming recycling techniques that can be performed with small-scale and simple facilities.

Website of PL <http://www.aqua.mtl.kyoto-u.ac.jp/NF/>

