

Innovation in manufacturing for new process of sustainable resource recycle

Development of innovative rare metal separation process using organic solvent

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Summary :

Lithium ion batteries indispensable for electric vehicles, uses valuable elements such as cobalt, nickel and lithium. Recycling of these elements is essential considering future situation of raw materials. Process will be developed including, reaction of spent lithium ion batteries with gasified organic solvents, separation using boiling point difference, and recovery of rare metals. Low temperature / high speed processing of lithium ion batteries will create a new material flow technology.

