

Does Indonesia need a nickel refining facility?

"As Indonesia is keen to see nickel get processed within the country, it is important for the company to secure stable supply of raw nickel ore and secure local refining facilities in Indonesia," said Lee Jong-hyung, an analyst at Kiwoom Securities in Seoul.

Why are Korean battery companies vying for higher energy density?

Korean battery companies are vying for higher energy density, which will allow electric vehicles (EVs) to travel farther. Energy density refers to how much energy a battery can hold in relation to its weight.

Can Co-less Ni-rich cathodes be used for high-energy density batteries?

The successful commercialization of Co-less Ni-rich cathodes for high-energy density batteries for EV applications is an important task in the coming years. Ni-rich cathodes with decreased amount of Co and increased operation voltages are pushing the energy densities to 350 Wh kg⁻¹ and the driving distance to 600 km per charge.

Tehachapi Energy Storage Project, Tehachapi, California. A battery energy storage system (BESS) or battery storage power station is a type of energy storage technology that uses a group of batteries to store electrical ...

SEOUL, Nov. 18 (Yonhap) -- The government has designated Korea Zinc Co.'s high-nickel precursor manufacturing process as a national core technology amid a tussle for control of the ...

3 ???· Young Poong and MBK Partners have filed a lawsuit against Korea Zinc, demanding approximately 700 billion won (\$515.7 million) in damages for alleged financial ...

At a high galvanostatic current rate of 5 A g⁻¹, the capacitance was 483 F g⁻¹. The optimal two-dimensional ultrathin NiFe₂O₄ beehive nanostructure exhibits immense potential for high ...

2 ???· Published 2024.11.19. 10:54. South Korea's Ministry of Trade, Industry and Energy has designated Korea Zinc's high-nickel precursor manufacturing technology--a key component ...

3 ???· High-nickel precursors are crucial in the manufacturing of battery cathodes, which are essential for electric vehicles and energy storage systems. (Yonhap) Most Read in Business

The three Korean battery companies make what are called high-nickel batteries, with cathodes that are more than 80 percent nickel. This has allowed for them to cut down on the use of cobalt, which is pricier compared to ...

As a result, the Co-less Ni-rich NCM (Ni > 90%) layered cathode is considered as the most promising

cathode material due to its high discharge capacity ($>200 \text{ mAh g}^{-1}$), high energy density ($>750 \text{ Wh kg}^{-1}$), and improved structural ...

To triple global renewable energy capacity by 2030 while maintaining electricity security, energy storage needs to increase six-times. To facilitate the rapid uptake of new solar PV and wind, global energy storage capacity increases to 1 500 ...

To triple global renewable energy capacity by 2030 while maintaining electricity security, energy storage needs to increase six-times. To facilitate the rapid uptake of new solar PV and wind, ...

2 ???· 2024.11.19 11:16:50. Korea Zinc Chairman Choi Yun-beom. (Yonhap) Korea Zinc Inc."s manufacturing technology for high-nickel precursors, a critical component for high-performance secondary batteries, has been designated a ...

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