

Phosphorus chemical companies that can produce batteries

The Chinese company is one of the world's leading manufacturers of lithium-ion battery materials. Tinci supplies battery cell manufacturers across Europe with ultra-pure formulations from LANXESS. ...

LANXESS is a leading specialty chemicals company with sales of EUR 6.7 billion in 2023. The company currently has about 12,400 employees in 32 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives and consumer protection products.

Recovering phosphorus (P) from wastewater was expected to bring win-win profits for environmental protection and clean energy industries. Ferric phosphate (FePO_4) was a key raw material for lithium-ion battery production for new energy vehicles, which was a more valuable and promising product for recovering P from wastewater. There were challenges in ...

At 3.3V, the cells of LFP batteries have a lower nominal voltage than traditional Li-ion batteries, though that figure is still higher than that of lead-acid batteries. And LFPs hold 3-5 times the energy of a lead-acid ...

Download Citation | On Apr 1, 2024, Jiajun Zou and others published Pilot-scale phosphorus recovery from biogas slurry to produce battery-grade FePO_4 : Chemical enhanced primary treatment coupled ...

The German speciality chemicals group Lanxess is entering the battery chemistry sector and has entered into a cooperation agreement with Guangzhou Tinci Materials Technology Co, a manufacturer ... Lanxess will ...

Yellow Phosphorus, also known as P_4 , is a critical mineral in the battery materials supply chain. P_4 is needed to produce lithium hexafluorophosphate (LiPF_6) -- the electrolyte used in lithium-ion batteries -- ...

Here, we report that simply hand-grinding commercial micro-sized red phosphorus and carbon nanotubes (CNTs) can deliver a reversible capacity of 1675 mAh g⁻¹ for sodium ion batteries (SIBs), with ...

The portfolio of the specialty chemicals company includes raw materials for cathode materials and electrolyte components, ion exchange resins for extracting ultra-pure metal compounds for cathode materials and battery recycling, coolants and colorants for high-voltage applications as well as casting compounds for protecting electronic battery components.

Mitsui Chemicals along with its wholly owned subsidiary Shimonoseki Mitsui Chemicals, has begun developing the recycling technology required to produce high-purity phosphorus materials in Japan. The aim of this endeavor is to recover phosphoric acid from underused phosphorus resources and turn it into high-value-added products in the form of ...

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A large range of Chinese and European industrial sectors are dependent on P4 as it is also required to produce specialist phosphorus chemicals needed by a very wide range of high-value end-uses. Those ...

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