

Are lithium-ion batteries a strategic resource?

This article explores the geopolitical relations and interdependencies emerging in the lithium extraction and manufacturing of lithium-ion batteries. It discusses the characteristics of the lithium-ion battery supply value chain to argue that lithium is not just a strategic resource.

Is the UK a 'Entrepreneurial State' for lithium-ion batteries?

These gaps reflect limits in the scope and scale of the UK government's efforts to act as an 'entrepreneurial state' with regard to lithium-ion batteries, particularly in the context of growing competition from Europe and the US in the wake of the US Inflation Reduction Act.

Is lithium a trade-linked material flow analysis?

Only a few studies investigated the characteristics of the LIB trade from international and chronological perspectives. Sun et al. (2017) and Sun et al. (2018) established a trade-linked material flow analysis(MFA) framework to analyze the lithium flow both along its life cycle on the national level and international trade on the global level.

Why do we need an international legal framework for the lithium industry?

The notion of an international legal framework for the lithium industry helps us to mine the regulatory landscape in a stratified fashion,from principles of customary international law,through domestic regimes and contractual arrangements,towards various treaty obligations.

Is the UK a 'global race' for lithium-ion batteries?

The UK too is seeking to onshore global production networks for lithium-ion batteries (LiB) and build a domestic battery supply chain. The UK case is instructive as the geopolitical dynamics of onshoring centre on maintaining the UK's role as an automobile manufacturing platform in the post-Brexit period rather than a general 'global race'.

Is lithium a workable object of international law?

We have transformed the material dimensions of lithium into a workable object of international law,focusing on the jurisdictional distribution of major reserves in Chile,Australia,Argentina,and China to foreground a framework for the lithium industry.

Promoting circular value chains for Li-ion batteries would require greater clarity on the status of these batteries as waste, consistency of transport and storage safety regulations, trade ...

Lithium-Ion Battery Materials for Electric Vehicles and their Global Value Chains . U.S. International Trade Commission | 1 . Introduction Lithium-ion batteries (LIBs) are a type of rechargeable battery and have a

relatively short history. 1. The technology was developed by a U.S. company, Exxon, in the 1970s and was introduced commercially in

In its collaboration, MSC integrated its lithium battery shipment booking process with GSBN, which has extensive access to China's top testing laboratories and certification providers, including ...

5 Results According to the International Trade Centre (2019), Africa's participation in the GVCLB, considering the average annual volume for the period 2012-2018, in US dollars at constant prices of the year 2018, always has a ...

A new generation of blade batteries will be introduced by China's electric vehicle giant BYD in 2025, according to a report published by Chinese state media CGTN.. BYD's Founder and Chairman Wang Chuanfu has stated that the company's "Blade Battery," a smaller lithium-iron-phosphate battery, is safer than competing products on the market and won't ...

In order to explore the competitiveness and influence of major lithium-ion battery exporters in export trade, this paper analyzes the overall pattern of lithium-ion battery export trade...

Popularly referred to as a global "battery race", this geopolitical dynamic suggests the reassertion of national territory as a container of production in a reverse "global ...

In order to explore the complex relationship between cobalt trade and lithium trade, as well as the impact of low-cobalt technology development trends on the crucial metal of lithium batteries ...

direct all correspondence to David Coffin and Jeff Horowitz, Office of Industries, U.S. International Trade ... international trends in EV battery trade, along 5 For more information on types of lithium-ion batteries, see Battery University, "BU-205: Types of Lithium-ion ... Lithium-ion batteries made up 70 percent of the rechargeable battery ...

In 2022, improperly declared lithium-ion batteries listed as "computer parts" caught fire during transport to the Port of Virginia. Following Hurricane Ian, the Coast Guard's Marine Safety Alert 01-23 warned about the dangers of saltwater-damaged EVs, as salt exposure can cause hazardous chemical reactions in batteries.

The United States is squandering its best opportunity to compete in the global battery race. China jumped to a commanding lead in the last decade, controlling the supply chain for lithium-ion ...

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