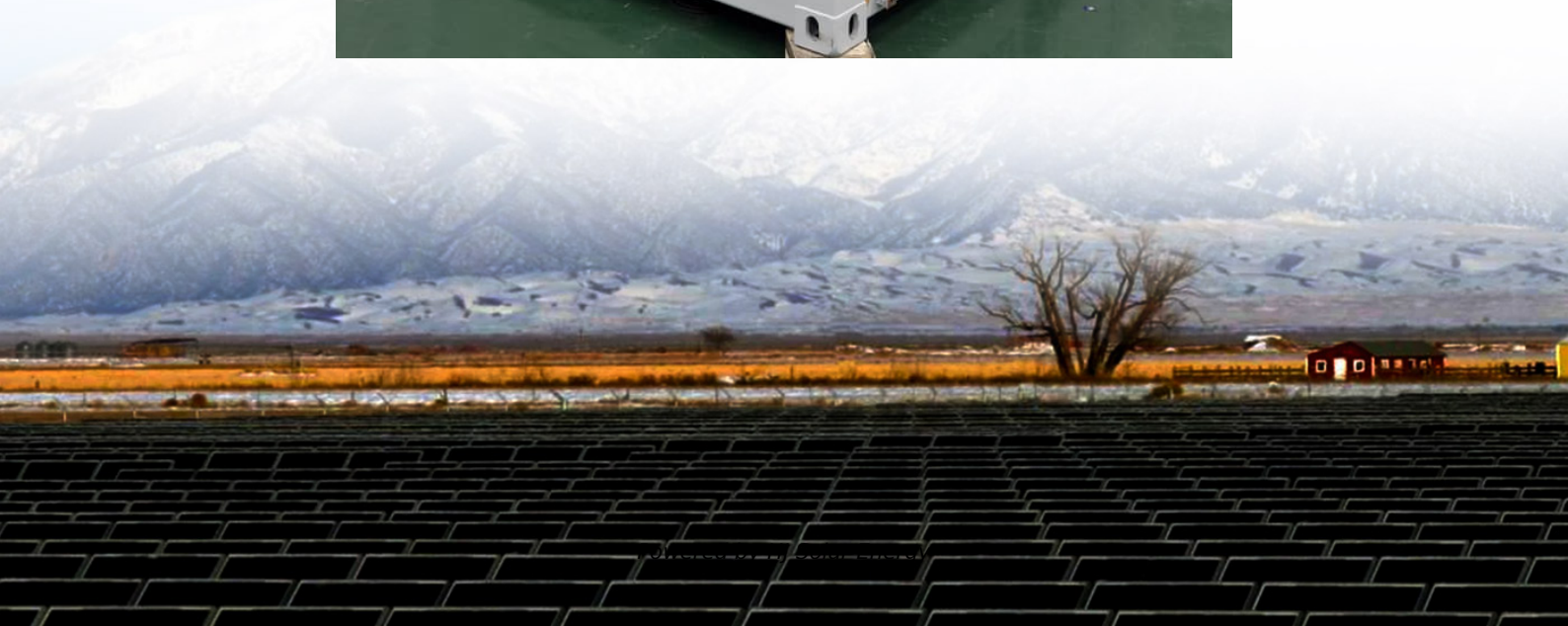


Toyota solid state battery chemistry





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Toyota solid-state batteries have a solid electrolyte, allowing for faster movement of ions and a greater tolerance of high voltages and temperatures. These qualities ...

[Toyota's Breakthrough in Solid-State Batteries](#)

2 ??? Last September, Toyota announced plans for their improved lithium-ion batteries, as well as a "breakthrough" in solid-state battery technology. It's notable, because the company ...



Toyota's Secret Weapon: The 745-Mile Solid-State Battery That ...

Toyota is preparing to expand its dominance from hybrids to EVs, and here's how its solid-state batteries could play a major role.

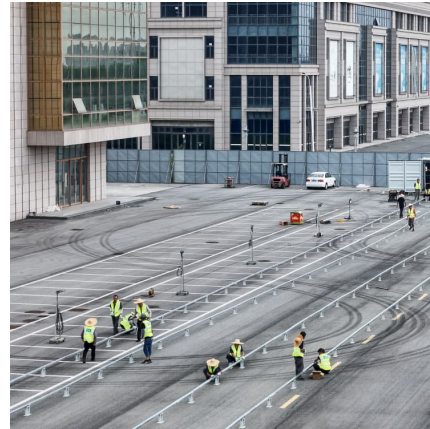
[2x EV range: Toyota's solid-state battery cathode](#)

...

Researchers have used a new cathode material for all-solid-state fluoride-ion batteries (FIBs) that provides double the capacity of typical lithium-



ion cathodes.



[What are solid-state batteries and why do we need them?](#)

Solid-state batteries can be fully charged more quickly. Crucially, though, solid electrolytes are less dense, so a solid-state battery can be smaller and lighter than its lithium ...

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[New EV Battery Materials Will Beget New Dilemmas](#)

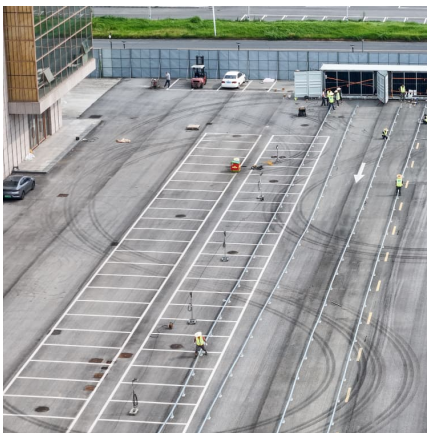
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2x EV range: Toyota's solid-state battery cathode beats lithium ...

Researchers have used a new cathode material for all-solid-state fluoride-ion batteries (FIBs) that provides double the capacity of typical lithium-ion cathodes.



A Deep Dive into Toyota's Batteries

By combining this new solid electrolyte with the Toyota Group's cathode and anode materials and battery technologies, we are now on the path toward achieving both performance and durability in solid-state batteries.

[New EV Battery Materials Will Beget New Dilemmas](#)

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Heterointerface Innovation Unlocks New Paths for Solid-State Battery

Such conductivity, not observed in traditional ceramic materials, marks a significant step forward in solid-state battery design. The study highlights the heterointerface's ...



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[Toyota sets out advanced battery technology roadmap](#)

Toyota solid-state lithium-ion batteries have a solid electrolyte that allows for faster movement of ions and a greater tolerance of high voltages and temperatures.



[Toyota Solid-State Battery: The Next Big Thing](#)



for EVs

The article discusses Toyota's research in solid-state batteries over the years, including breakthroughs, partnerships, and challenges.



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