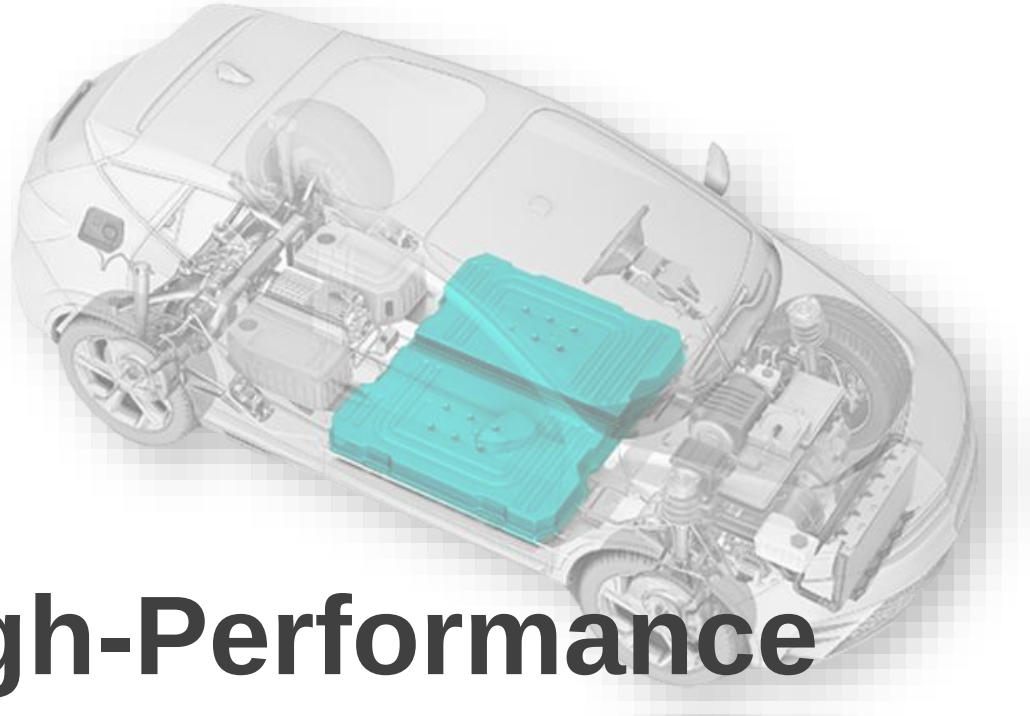
FERMI ENERGY



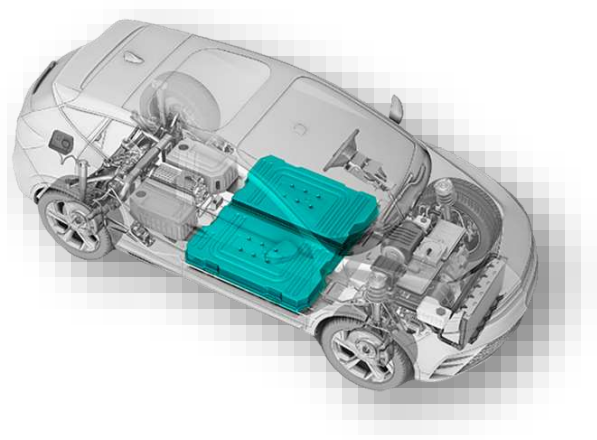
Low-cost, American, High-Performance Cathodes for Next-Gen Lithium Ion Batteries

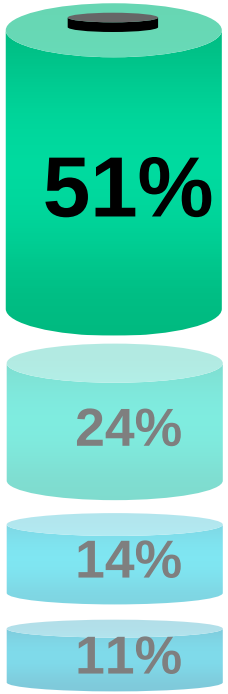
Fermi Energy, Inc.
www.fermienergy.com

Problem: Expensive Cathodes = Pricier EVs

FERMI ENERGY

Electric vehicle (EV) batteries:
>$7,000





Cathode: $3,600

Manufacturing

Anode

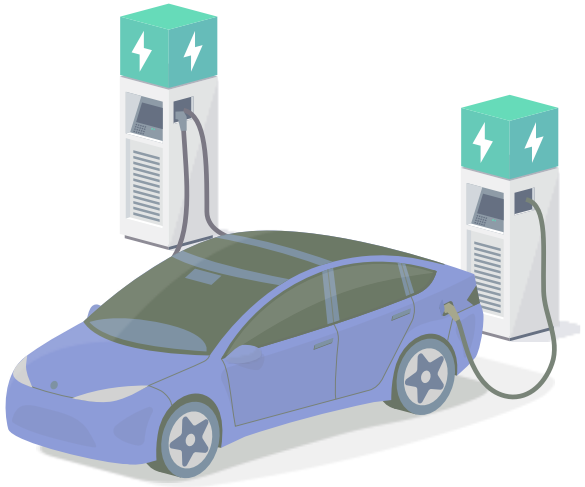
Other



Problem: Battery Performance & Supply Chain

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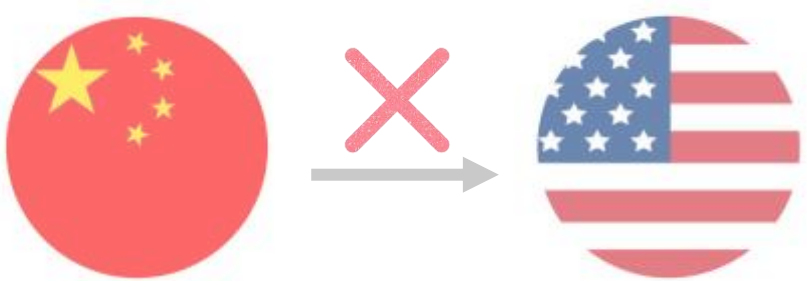
Fast charge



Low temp



Supply chain



Fermi's Cathode Solution

Lithium iron phosphate ($LiFePO_4$)

Fermi's cathode (Mn, etc)

Lithium transition metal oxide composite cathode

Fast charge

Charge speed: miles per minute



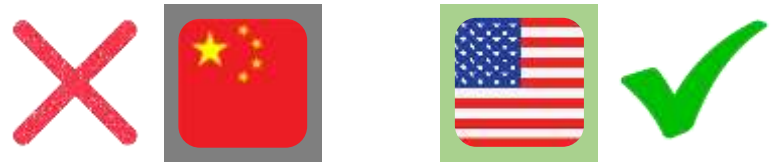
Low temp

-4 °F discharge driving range (miles)



Supply chain

Supply chain country

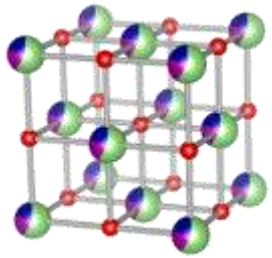


Patented Technologies

Fermi's disordered composite materials

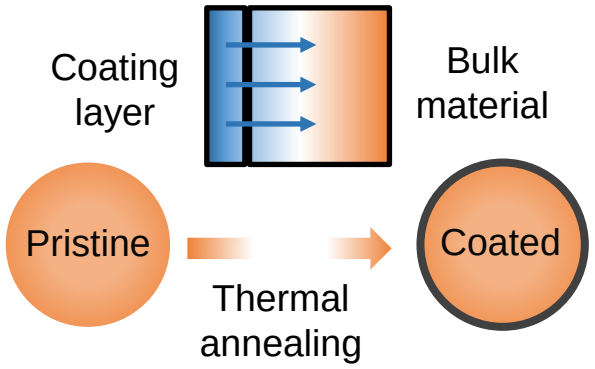
- Elements: Mn, etc
- Significantly improved cycling stability
- Cell engineering (new electrolyte)
- All-dry and scalable manufacturing process

Cation doping

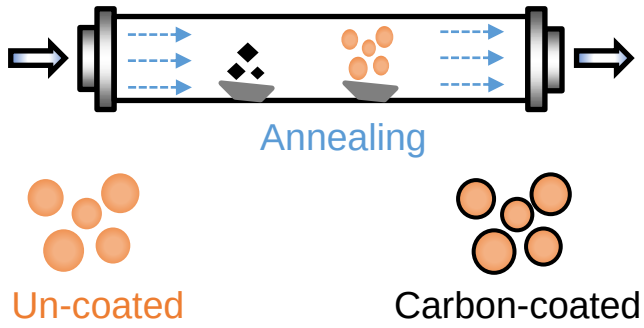


O/F Li TM1 TM2

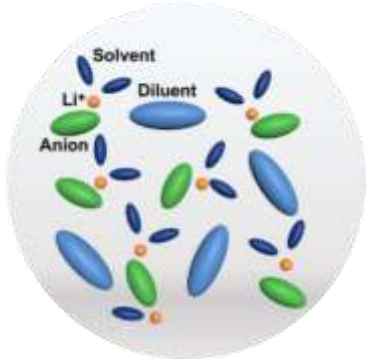
Cation coating



Carbon coating



Electrolyte development



Go-to-market plan

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Niche market (2025-)



U.S. satellite battery
- Market size in 2024: $2.3B

- **Wide temperature (-50 °C to 80°C)**
- **Cathode demand for 2026: $10M**

AMERICAN LITHIUM ENERGY

Future market (2027-)



U.S. EV cathode market size
- 2030: $25B
- 2040: $52B

- **Initial samplings with a Tier 1 battery manufacturer**

Tier 1 battery manufacturer
NDA

Management Team

FERMI ENERGY



Dr. Zhengrui (Ray) Xu
Co-founder & CEO

VIRGINIA TECH · TESLA · Activate



Dr. Feng Lin
Co-founder & CTO

BROWN · VIRGINIA TECH · QuantumScape · BERKELEY LAB · NREL NATIONAL RENEWABLE ENERGY LABORATORY



Dr. Eddie Amos
BD Advisor

TORC · GE · Microsoft



Dr. Marca Doeff
Scientific Advisor

BERKELEY LAB



Martin Rosendale
BD Advisor

nuo THERAPEUTICS · MARYLAND TECH COUNCIL



Fourd Kemper
Legal

WOODS ROGERS VANDEVENTER BLACK

Financing Plans

	2025	2026-2027
	$3.6M grant from DOE + NSF	$3M Pre-seed & non-dilutive fund
Production scale	R&D	Pilot
Production volume	Sub KG batch	10 ton p.a.
Annual revenue	--	$0.5M



FERMI ENERGY

Let’s talk!



Zhengrui (Ray) Xu
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