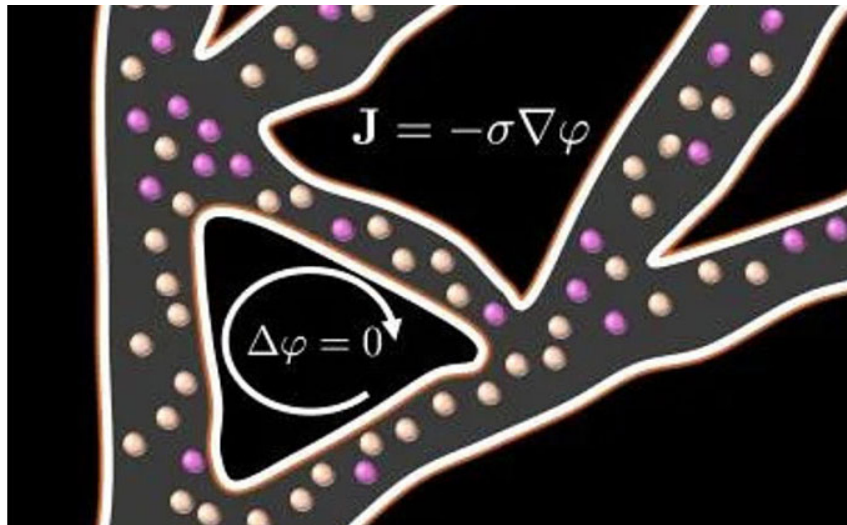


Discover how you can charge your phone battery in 60 seconds

A research team from the University of Colorado (CU Boulder), led by researcher Ankur Gupta, recently announced a new discovery that could help open up the possibility of charging batteries for phones and electric cars super fast.

Specifically, scientists have found a way to separate small charged particles (ions), which can move more efficiently in a network of small pores, opening up the development of ultra-fast energy storage devices. .

In an announcement on the University of Colorado's website, the new discovery could potentially lead to advances that fully charge a laptop or phone in one minute, or fully power an electric car in 10 minutes.



After considering the movement of ions through a complex network of interconnected pores running through the supercapacitor. The research team discovered that ions have different movements at the hole intersection of the complex network running through the supercapacitor. From here, the team created a complex network model of thousands of interconnected nanopores for tracking. The results they received were different from Kirchhoff's law - a law that has existed since 1845 about the rules governing current in circuits.

Gupta said the research results could be applied in supercapacitors - energy storage devices based on ion accumulation and with faster charging times than traditional batteries. The research also opens up application directions in energy storage for smart devices, electric vehicles and grid power.

According to BGR, the above results just stop at the research stage, putting them into practice still has many challenges. In addition, Kirchhoff's law still shows the correctness in the operation of common electrical circuits. Research results cannot change this law.

However, these scientists also expressed optimism about the ability to apply new research into practice.

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