
MIT scientists were surprised to discover a "chiral superconductor" -- a material that conducts electricity without resistance, and also, paradoxically, is magnetic -- in ...

MIT physicists have taken a key step toward solving the puzzle of what leads electrons to split into fractions of themselves. Their solution sheds light on the conditions that ...

Samsung"s graphene battery prototype charges 0% to 100% in 12 minutes. Perfect for EVs, drones, and emergency power. 2. ...

A new property Graphene is composed of a single layer of carbon atoms arranged in hexagons resembling a honeycomb structure. Since the material"s discovery, scientists ...

MIT physicists have observed fractional quantum Hall effect in simple pentalayer graphene. The finding could make it easier to develop more robust quantum computers.

Plug-and-play graphene energy container system designed for grid, partial-grid, and microgrid installations. It delivers clean, resilient, long-duration power storage without thermal risk, toxic ...

Graphene, however, comes in sheets of 2D molecules that are 1 atom thick, with a similar specific surface area to activated carbon. It can be spread out in an extremely thin layer ...

Graphene is nothing more than a pure carbon sheet with only one atom thick and is distributed following a regular hexagonal pattern. With this material, ...

We go beyond traditional lithium-ion systems to examine the performance and potential of graphene-based materials in relatively underexplored or nascent technologies ...

Graphene batteries are an innovative form of energy storage that use graphene as a primary material in the battery"s anode or ...

Graphene batteries are an innovative form of energy storage that use graphene as a primary material in the battery"s anode or cathode. Graphene, a single layer of carbon atoms ...

Graphene sheets with precisely controlled pores have potential to purify water more efficiently than existing methods.

MIT physicists observed key evidence of unconventional superconductivity in magic-angle graphene. The findings could lead to the development of higher-temperature ...

Graphene, however, comes in sheets of 2D molecules that are 1 atom thick, with a similar specific surface area to activated carbon. It ...

MIT engineers have developed a scalable manufacturing process that spools out strips of graphene for use in ultrathin membranes.

MIT physicists report the discovery of electrons forming crystalline structures in a material billionths of a meter thick. The material, rhombohedral pentalayer graphene, joins a ...

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