Graphene energy storage and power generation

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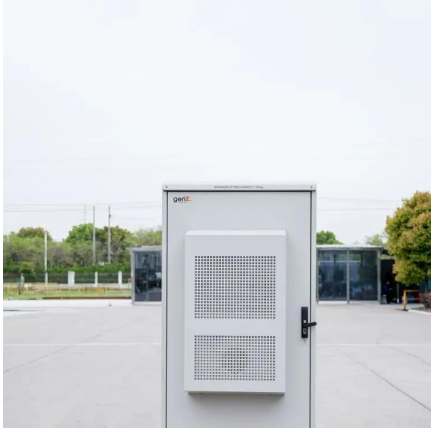

A graphene roll-out , MIT News , Massachusetts Institute of ...

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

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MIT physicists discover a new type of superconductor that's also ...

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

Electrons become fractions of themselves in graphene, study finds

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

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Physicists discover important new property for graphene

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 ...

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MIT physicists observe key evidence of unconventional

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

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Insulator or superconductor? Physicists find graphene is both

Physicists at MIT and Harvard University have found that graphene, a lacy, honeycomb-like sheet of carbon atoms, can behave at two electrical extremes: as an insulator, ...

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How can electrons split into fractions of themselves?

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 ...

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Study: Superconductivity switches on

and off in "magic-angle" ...

The graphene layers are sandwiched in between boron nitride layers (in blue and purple). The angle and alignment of each layer enables the researchers to turn ...

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Physicists measure a key aspect of superconductivity in "magic ...

Physicists measured how readily a current of electron pairs flows through "magic-angle" graphene, a major step toward understanding how this unusual material superconducts.

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MIT physicists find unexpected crystals of electrons in an ultrathin

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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