

Graphene Chemistry Theoretical Perspectives

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New mechanism of superconductivity discovered in graphene. Placing a 2D Bose-Einstein condensate in the vicinity of a graphene layer confers superconductivity to the material.

New mechanism of superconductivity discovered in graphene

10 Department of Chemistry ... such as graphene have been predicted. Now Mannix et al. report the formation of two-dimensional boron by depositing the elemental boron onto a silver surface under ...

Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs

Using a novel device made from carbon atoms and a laser, researchers captured real-time electrical signals from muscle tissue.

A Graphene 'Camera' Images the Activity of Living Heart Cells

DNA sensors have been developed by taking advantage of the π - π stacking of ssDNA on graphene. Various graphene-based electronic devices and electrochemical sensors have been fabricated to detect ...

Graphene in Biomedicine: Opportunities and Challenges

Studying the chemistry and physics of ice and finding out why heat is needed to form ice on graphene contributes to this necessary ... Our concept of how water interacts at this scale comes from ...

Heating up Graphene to Study Ice Formation

9 Department of Chemistry ... and good biocompatibility, graphene is very attractive as an efficient metal-free substrate for probing trace amounts of organic molecules. To unveil the GERS mechanism ...

Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering

Exotic electronic states called Wigner crystals, in which mutual repulsion between electrons causes them to spontaneously form ordered arrangements, have been observed independently by two groups ...

Best sighting yet of exotic crystals composed entirely of electrons

"Heavy fermions" are an appealing theoretical way to produce quantum ... it is possible to make heavy fermions in subtly modified graphene, which is much cheaper and safer. New research has ...

Unlocking radiation-free quantum technology with graphene

Researchers at the University of Queensland have engineered a carbon-based material that could spawn the next generation of nanoelectronics.

University of Queensland engineers next gen nanoelectronics

The chemistry inside this capacitor was initially ... Apparently, they're not lithium ion capacitors at all, but graphene capacitors. Graphene capacitors you can buy. On Kickstarter.

Ask Hackaday: Graphene Capacitors On Kickstarter

Understand the fundamental concepts, theoretical background ... research track record in photonics ... His co-author brings an industrial perspective to research in graphene-based optoelectronics. The ...

Graphene Photonics

As silicon-based technology reaches its absolute limits, a material engineered by University of Queensland researchers could herald the next generation of electronics with more memory, faster speeds ...

Smarter electronics a step closer with nanotech advance

which piques interests from both the fundamental and application-oriented perspectives. In this work, the researchers report a new mechanism of superconductivity in graphene, which arises due to ...

New mechanism of superconductivity discovered in graphene

Graphene, whose discovery won the 2010 Nobel Prize in physics, has been a shining star in the material science in the past few years. Owing to its interesting electrical, optical, mechanical and ...

Graphene in Biomedicine: Opportunities and Challenges

Researchers at the Center for Theoretical ... and application-oriented perspectives. In this work, the researchers report a new mechanism of superconductivity in graphene, which arises due to ...