

## Online Library Graphene Chemistry Theoretical Perspectives

# Graphene Chemistry Theoretical Perspectives

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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-**

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### **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  $\pi$ - $\pi$  stacking of ssDNA on graphene. Various graphene-based electronic devices and electrochemical sensors have been fabricated to detect ...

### **Graphene in Biomedicine: Opportunities and**

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### **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 ...



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### **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.

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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

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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

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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**

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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 ...

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