Graphene nanotubes

Molecules # The G2-database of common molecules is available: ase.build.molecule(name, vacuum=None, **kwargs) [source] # Create an atomic structure from a database. This is a helper function to easily create molecules ...

Carbon nanotubes (CNTS) are a kind of one-dimensional quantum material with the hexagonal arrangement of carbon atoms forming coaxial circular tubes from several layers to dozens of layers, and it can be divided into single ...

Folding graphene to test limits of friction at the quantum scale A surprising discovery in 2022 revealed that water flows faster through narrower carbon nanotubes--reversing what we see in ...

?? Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells ??????????????????????????????? ?? ...

In this study, based on first-principles calculations and the advanced many-body methods, the GW approximation and the Bethe-Salpeter equation (BSE), we comprehensively investigate ...

Electrostatic self-assembly of carbon nanotube/reduced graphene oxide films for enhanced thermal insulation performance: Fullerenes, Nanotubes and Carbon Nanostructures: Vol 0, No ...

??? ?????? ?? Greenly growing carbon nanotubes on graphene for high-performance lithium-sulfur batteries ?????????????????????? ???? ??? ?? ...

This review systematically examines recent advancements in enhancing the electrical properties of flexible electrodes through conductive polymer coatings, chemical doping, and the integration of nanomaterials, with a particular focus ...

Silicon is a promising anode material for next-generation lithium-ion batteries (LIBs) due to its high theoretical capacity. However, its practical use is hindered by significant volume expansion ...

Nanotubes de carbone (CNT) Les nanotubes de carbone, grâce à leur conductivité exceptionnelle et à leur structure unique, constituent des matériaux absorbants à fort potentiel dans les ...

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