

noncovalent functionalization of carbon pdf

Functionalization and dispersion of graphene sheets are of crucial importance for their end applications. Chemical functionalization of graphene enables this material to be processed by solvent-assisted techniques, such as layer-by-layer assembly, spin-coating, and filtration.

Chemical functionalization of graphene and its

Enzyme immobilizations on carbon nanotubes for fabrication of biosensors and biofuel cells and for preparation of biocatalysts are rapidly emerging as new research areas.

Enzymes immobilized on carbon nanotubes - ScienceDirect

Defect-rich microporous soft carbon nanosheets are synthesized via a facile microwave induced exfoliation strategy. The as-designed nanosheets can function as outstanding anodes for sodium-ion battery (232 mAh g⁻¹), potassium-ion battery (291 mAh g⁻¹), and dual-ion full battery (cell-level capacity of 61 mAh g⁻¹).

Advanced Energy Materials: Early View

Technical Service: Our team of scientists has experience in all areas of research including Life Science, Material Science, Chemical Synthesis, Chromatography, Analytical and many others.

1-Pyreneacetic acid 97% | Sigma-Aldrich

Publications. For a list of journals on which Dr. Gogotsi serves as an Editor or Editorial Board Member, click here. To get pdf copy of our publications, please contact with Prof. Yury Gogotsi (gogotsi@drexel.edu), OR, Danielle Kopicko (dt372@drexel.edu).

Publications - Yury Gogotsi

Abstract. Graphene exhibits unique 2-D structure and exceptional physical and chemical properties that lead to many potential applications. Among various applications, biomedical applications of graphene have attracted ever-increasing interests over the last three years.

Biomedical Applications of Graphene - Theranostics

1 INTRODUCTION. The addition of fillers or nanofillers for reinforcement of polymeric matrixes needs always the analysis of interfacial region between filler and polymer matrix, since the compatibility between these components determines the final properties of composites and nanocomposites 1. It is through the interfacial region that occur the strain transfer from the matrix to the ...

Preparation and Characterization of Maleic Anhydride

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Journal of Electrochemical Science and Technology

RESEARCH ARTICLES Enhancement of Critical Parameters of Natural Ester Liquids Using SiO₂ Insulating Nanoparticle M. Srinivasan, U. S. Ragupathy, and A. Raymon J. Comput. Theor.

American Scientific Publishers - Journal of Computational

Self-assembly is a phenomenon where the components of a system assemble themselves to form a larger functional unit. This spontaneous organization can be due to direct specific interaction, collective effects, and/or occur indirectly through their environment.

Self-assembly of nanoparticles - Wikipedia

Abstract. We are reviewing the state of electrochemical sensing of H₂O₂ based on the use of metal nanoparticles. The article is divided into subsections on sensors based on nanoparticles made from Ag, Pt, Pd, Cu, bimetallic nanoparticles and other metals.

Electrochemical sensing of hydrogen peroxide using metal

Abstract. Biosafety is the primary concern in clinical translation of nanomedicine. As an intrinsic ingredient of human blood without immunogenicity and encouraged by its successful clinical application in Abraxane, albumin has been regarded as a promising material to produce nanoparticles for bioimaging and drug delivery.

Strategies for Preparing Albumin-based Nanoparticles for

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Polymerization of Ethylene Oxide, Propylene Oxide, and

Introduction. Boron nitride nanotubes (BNNTs) are known as structural analogs of carbon nanotubes (CNTs) but with superior properties. Although they have structural similarities, they significantly differ in their chemical and physical properties.

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