

Nanowire-based technological advancements thrive in various fields, including energy generation and storage, sensors, and electronics. Among the identified nanowires, ...

In Ref. 37 a sensitivity of $2.4 \text{ aN Hz}^{-1/2}$ at 4 K is achieved using a diamond nanowire integrated with an ultrahigh sensitivity Si cantilever and a projected sensitivity of 0.65 ...

1. Introduction The manipulation and storage of electrostatic charge are currently a main concern in the field of nanoscience because of their direct applicability toward energy harvesting. 1-4 ...

M. Harooni & A. Sadeghzadeh-Attar/ Processing and Application of Ceramics 16 [1] (2022)55-63 On the other hand, it is well known that 1D structures, such as nanowires, nanorods and ...

The aim of this review is to provide a survey of the recent advances and the main remaining challenges related to the ultrananocrystalline diamond (UNCD) nanowires and other nanostructures which exhibit excellent ...

A new generation of energy storage electrode materials constructed from carbon dots. Ji-Shi Wei⁺ a, Tian-Bing Song⁺ a, Peng Zhang a, Xiao-Qing Niu a, Xiao-Bo Chen b and Huan-Ming Xiong * a a Department of Chemistry and Shanghai ...

Due to the superior hardness and Young's modulus, biocompatibility, optical and fluorescence nanodiamond seems to be outstanding among carbon nanomaterials. In this footpath, the development of diamond ...

In this study, a boron-doped diamond nanowire array (BDD-NWA)-based electrode is prepared by using a microwave plasma chemical vapor deposition system and treated with inductively coupled plasma reactive ion ...



**Diamond
System**

Nanowire

Energy

Storage

Web: <https://www.foton-zonnepanelen.nl>

