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Functional Nanomaterials & Devices - Publications

Functional Nanomaterials - A Special Issue published by Hindawi. 1 Advanced Physics Laboratory, Department of Physics, University of Pune, Pune, India. 2 Center for Nanomaterials and Energy Devices, School of Physical Sciences, Swami Ramanand Teerth Marathwada University, Nanded 431606, India. 3 Dept. of Biological Sciences and Chemistry, University ofNizwa, Nizwa, Oman

Functional Nanomaterials | Hindawi

The Center for Functional Nanomaterials (CFN) explores the unique properties of materials and processes at the nanoscale. The CFN is a user-oriented research center whose mission is to be an open facility for the nanoscience research community and advance the science of nanomaterials that address the nation's energy challenges.

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Functional hybrid nanomaterials often exhibit substantially different physical, mechanical, magnetic, chemical, and optical properties compared to their individual and/or bulk counterparts [37–40]. By integrating different functional nanomaterials, the performance of wearable devices can be dramatically improved and/or diversified [1, 7, 41–46].

Deformable devices with integrated functional ...

Functional Nanomaterials & Devices | King Abdullah University of Science and Technology: Anas Abu-Taha;PhD Students

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Nanomaterials We synthesize various functional nanomaterials such as metal oxides, carbon allotropes and polymers for application in electronic devices.

Nanomaterials | Mysite

At FuNL, we are dedicated to studying the physics and chemistry of hybrid materials. The Functional Nanomaterials Lab (FuNL) studies the self-assembly and design of hybrid organic-inorganic materials and nanomaterials to generate breakthrough applications in optoelectronics, photonics, and renewable energy.

Functional Nanomaterials Lab - King Abdullah University of ...

Nanoparticles or nanocrystals made of metals, semiconductors, or oxides are of particular interest for their mechanical, electrical, magnetic, optical, chemical and other properties. Nanoparticles have been used as quantum dots and as chemical catalysts such as nanomaterial-based catalysts.