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incorporation of nanomaterials into 3D printed devices can endow a wide range of constructs with tailorable mechanical, chemical, and electrical functionalities. This review highlights the advances and unique possibilities in the fabrication of novel electronic, biomedical, and

## **3D printed nanomaterial-based electronic, biomedical, and ...**

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 - FUN Lab**

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 ...**

Description Cluster Beam Deposition of Functional Nanomaterials and Devices, Volume 15, provides up-to-date information on the CBD of novel nanomaterials and devices. The book offers an overview of gas phase synthesis in a range of nanoparticles, along with discussions on the development of several devices and applications.

## **Cluster Beam Deposition of Functional Nanomaterials and ...**

Technologies employing nanomaterials, such as electronics, optoelectronics, nanobiotechnologies, quantum optics, and nanophotonics, are perceived as the key drivers of investigations on novel and functional materials and their nanostructures for various applications.

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Recent progress in the synthesis of nanomaterials and the fundamental understanding of their properties has led to significant advances in nanomaterial-based sensors, in optoelectronic devices, and in drug delivery systems.

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ing different functional nanomaterials, the performance of wearable devices can be dramatically improved and/or diversified [7, 141, -46]. For the realization of this goal, the type, size, thickness, and concentration of the nano-materials should be carefully designed [46]. In the follow-ing, we summarize recently reported wearable sensors/

## **Deformable devices with integrated functional ...**

Summary : Cluster Beam Deposition of Functional Nanomaterials and Devices, Volume 15, provides up-to-date information on the CBD of novel nanomaterials and devices. The book offers an overview of gas phase synthesis in a range of nanoparticles, along with discussions on the development of several devices and applications.

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