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Nanotechnology is a rapidly growing field with a plethora ... Specifically, the goal of this project will be to create computational tools that help discover new directed self-assembly strategies for ...

Computational Design of Nanomaterials by Patten Replication

Created by the Network for Computational Nanotechnology, a consortium of eight member universities dedicated to furthering research and education in nanotechnology, nanoHUB.org offers free simulation, ...

Nanotechnology Research - Universities

The innovative material that creates green energy through mechanical force. A new nanotechnology development by an international research team led by Tel Aviv University researchers will make it possi ...

Innovative New Nanotechnology Will Enable "Healthy" Electric Current Production Inside the Human Body

Unlike ordinary metals and insulators, which have free electrons that don't interact ... and Philippe Corboz (University of Amsterdam), to develop state-of-the-art computational methods with which to ...

Quantum phase transition discovered in a quasi-2D system consisting purely of spins

Nanotechnology is widely employed in diagnostic ... respectively. Involving computational detection allows greater sensitivity than can be seen by the human eye, and similar detection systems ...

Nanotechnology and the fight against COVID-19

"Applications range from faster drug development and personalized medicine, to animal-free toxicity studies ... projects ranging from nanotechnology-based diagnostics and innovative medical devices to ...

First industrial cultured meat facility spawns from biolab that also innovates drug development, medical devices

"To address these challenges, we have devoted effort to computational fluid dynamics modeling of blood ... they do involve carrying a physical device around -- something Fissell hopes to free patients ...

Nanotechnology Paves Way for World's First Implantable Artificial Kidney

A new nanotechnology device developed by a research ... plans to continue their research by applying crystallography and computational quantum mechanical methods, or density functional theory ...

New nanotechnology allows the human body to generate electric currents

Nanotechnology helps to generate healthy ... Researchers plan to apply crystallography and computational quantum mechanical methods (density functional theory) in order to gain an in-depth ...

Nanotechnology Enables Healthy Current Production in Human Body

Moreno-Pineda, Karlsruhe Institute of Technology) The work proves that carbon dioxide, which has a harmful effect on the environment, can be a useful raw material, said Professor Mario Ruben, from KIT ...

Researchers Develop Graphene from Carbon Dioxide

Classical defect structures, such as free dislocations ... are then inverted to form quantitative real-space images using a computational method for solving the phase problem, described in ...

Coherent X-ray diffraction imaging of strain at the nanoscale

EPFL The Board of the Swiss Federal Institutes of Technology has announced the appointment of professors at EPFL. New appointment at ETH ...

Nominations of EPFL professors 16 July

Precision agriculture' where farmers respond in real time to changes in crop growth using nanotechnology and ... commented: "Computational approaches including AI and machine learning will have ...

Nanotech and AI could hold key to unlocking global food security challenge

We are at a unique moment in history: our society is in transition from an industrial economy to one defined by a new set of technologies, ranging from digitalization to nanotechnology.

Blockchain and Sustainable Growth

It doesn't end there: since exponentially accelerating technologies - computational power, artificial intelligence, robotics, nanotechnology, biotechnology, blockchain, IoT, AR, VR and more - are now ...

Why B2B businesses need speed to survive

Finite Element Analysis and Computational Fluid Dynamics This module is optional ... nanofabrication techniques using elements from surface science, nanoscience and nanotechnology, plasmas and thin ...