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German nanotechnology specialist
attocube says its attoDRY800 cryostat
enables quantum scientists to "reclaim
the optical table" and focus on their
research not the experimental set-up
...

Optical cryostat proves a game-
changer in quantum communication
studies

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

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Nanomaterials by Pattern Replication

Neural networks enable precise simulations in material science - down to the level of individual atoms. (Illustration: Pascal Friederich, KIT) ...

Machine Learning Speeds up Simulations in Material Science

In this new study, recently published in the journal *Small Methods*, the researchers opted for a new technique to speed up the microscope data processing. This time, they used machine learning ...

Machine Learning Reduces
Microscope Data Processing Time
Collaboration between Oleg Yazyev's
Chair of Computational Condensed
Matter Physics theory group ... ZGNRs
are unique because of their
unconventional metal-free magnetic

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'Bite' defects revealed in bottom-up graphene nanoribbons
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
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
Boson sampling has been considered as an intermediate step for linear

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optical quantum computing, and a strong candidate to demonstrate the quantum computational advantage. Since the proposal of boson ...

Quantum computational advantage and beyond

They also stress the importance of the computational infrastructures that ... diverse fields of science and engineering. From nanotechnology to planetary science, from metallurgy to quantum ...

Comprehensive electronic-structure methods for materials design

A new study from the Centers for Genomics and Systems Biology at New York University and NYU Abu Dhabi uses computational modeling to assess the biological significance of spike protein mutations ...

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Computational modeling can predict mutation hotspots in SARS-CoV-2 spike protein

5 Department of Physics, Institute of Nanotechnology and Advanced Materials ... Present address: Structural and Computational Biology Unit, European Molecular Biology Laboratory (EMBL), 69117 ...

Receptor compaction and GTPase rearrangement drive SRP-mediated cotranslational protein translocation into the ER

The third research activity is high-technology development, for example in information technology, biotechnology, nanotechnology ... the Partner Institute for Computational Biology, which is ...

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Leader of innovation in China

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

Computational biology/bioinformatics ... and other RNA classes -- work that contributes to synthetic biology, the "wet" analogue of nanotechnology, a field that could be dominant in the 21st century.

Biology Department Faculty Provides introduction to mathematical methods and modern scientific computational tools used in physics/astronomy ... Covers

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advanced topics of optical properties of solids, including free carrier ...

University Catalog

This time, they used machine learning algorithms instead of conventional computational methods ... Institute of Nanoscience and Nanotechnology (ICN2). "It is one of the first studies to provide such a ...

Machine learning reduces microscope data processing time from months to just seconds

For simulations in materials science, it is important to achieve high accuracy over different time and size scales, ranging from the atom to the material, while limiting computational costs.

Machine learning speeds up simulations in material science

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This time, they used machine learning algorithms instead of conventional computational ... and Nanotechnology (ICN2). "It is one of the first studies to provide such a rapid label-free biochemical ...

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