

Molecular And Particle Modelling Of Laminar And Turbulent Flows

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Most of the tests that doctors use to diagnose cancer -- such as mammography, colonoscopy, and CT scans -- are based on imaging. More recently, researchers have also developed molecular diagnostics ...

~~MIT engineers create new diagnostic nanoparticle that can pinpoint tumor location~~

Doug is an avid biker outside of work. He is most at home on his mountain bike riding on the local trails and training for endurance races. In 2013 Doug competed in and finished the Leadville Trail ...

~~Deug Bohl~~

Along the hierarchy of kinetic approaches, a multi-phase particle method is devised in this ... that the current work on Fokker-Planck-Poisson modelling of multi-phase phenomena is initiated.

~~Fokker-Planck-Poisson kinetics: multi-phase flow beyond equilibrium~~

Tijana Rajh has been announced as the new director of Arizona State University's School of Molecular Sciences.

~~Arizona State University: School Of Molecular Sciences Announces Tijana Rajh As New Director~~

Our knowledge of the molecular gas content in galaxies has advanced rapidly in the past decade with systematic surveys from ground-based radio facilities, coupled with advances in observations and ...

~~Molecular Gas, Dust, and Star Formation in Galaxies (IAU S292)~~

1 Institute of Systems, Molecular and Integrative Biology ... 184,921 good particles were used for final 3D reconstruction. Cryo-EM single-particle analysis determined the structure of the RC-LH1-PufX ...

~~Cryo-EM structure of the photosynthetic RC-LH1-PufX supercomplex at 2.8 Å resolution~~

Using microscopes at the Molecular Foundry ... these findings "provide a model for showing how you can control the crystal structure at the single particle level," Xu said, adding that their ...

~~Scientists design 3D-grown material that could speed up production of new technologies for smart buildings and robotics~~

Using microscopes at the Molecular Foundry ... these findings "provide a model for showing how you can control the crystal structure at the single particle level," Xu said, adding that their ...

~~This crystal impurity is sheer perfection~~

Single-particle cryo – electron microscopy (cryo-EM ... A 3D variability analysis of the cryo-EM data (movie S1) and molecular dynamics (MD) simulations of the atomic model (fig. S5A) reveal a certain ...

~~Structural basis of the activation of the CG chemokine receptor 5 by a chemokine agonist~~

That ' s the working hypothesis that Francis Crick calls the astonishing hypothesis that I think basically every serious neurophysiologist assumes that by understanding at a molecular level how ...

~~Does Physics Allow for a Plurality of Truths? Maybe Not, but Reality Might~~

it allows results of molecular dynamics to be corrected if the models used in the simulations are insufficiently accurate." ...

~~RNA: A new method to discover its high-resolution structure~~

This inexpensive method with laboratory-grade equipment quickly reaches the crystal-structure model of even extremely ... University into understanding the molecular orientation of hybrid thin ...

~~Breathing new life into existing tech: FT-IR spectrometer shows molecular orientation~~

The formation of small molecular clusters of sub-3nm and their subsequent growth to the large sizes is called atmospheric new particle formation ... experiments and modelling approach, it is ...

~~Aerosol particles below 3nm can reach sizes that can have climatic impacts: Study~~

Scientists at the U.S. Department of Energy's (DOE) Argonne National Laboratory and the University of Chicago's Pritzker School of Molecular ... Magnons are the particle-like representatives ...

~~Opening the gate to the next generation of information processing~~

This study focuses on transporter or bouncer called MFSD2A present in the omega-3s that helps to infiltrate the blood-brain barrier using a technique called single-particle cryo-electron ...

~~How Omega-3 Fatty Acids Infiltrate Brain?~~

The formation of small molecular ... experiments and modelling approach, it is largely unexplored in India. The team found a strong positive correlation between sub-3nm particle concentrations ...

~~UoH team finds aerosols in city air that can have climatic impact~~

Neurological drugs that have difficulty crossing the blood-brain barrier might fit into the hold of a major facilitator superfamily domain containing 2A (MFSD2A)—a sort of molecular ferry.

~~Omega-3 Transporter Could Ferry Drugs across the Blood-Brain Barrier~~

The presentations and posters highlight the potential of Fusion's targeted alpha therapies (TATs) to enable delivery of alpha particle emitting ... lung cancer tumor models. The strongest ...