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In water, the surfactant dioctyl sulfosuccinate (Aerosol-OT or AOT) exhibits diverse aggregate structures, ranging from micelles to lamella. An atomic-level understanding, however, of the formation and structure of these aggregates is lacking. Herein, using atomistic molecular dynamics (MD) with microsecond-long simulations, self-assembly of AOT in water is studied for concentrations of 1, 7.2 ...

Structural Insights into Self-Assembled Aerosol-OT ...

Publications (1,143,535) ... Hello, Im currently in an Engineering module of Fluid Mechanics, and I was hoping if anyone could assist me in the process with these 2 questions while my Professor is ...

1064 questions with answers in PHYSICS | Science topic

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Objective Journal of Polymer Engineering publishes reviews, original basic and applied research contributions as well as recent technological developments in polymer engineering. Polymer engineering is a strongly interdisciplinary field and papers published by the journal may span areas such as polymer physics, polymer processing and engineering of polymer-based materials and their ...

Journal of Polymer Engineering - De Gruyter

Principal's Message. The National Institute of Engineering (NIE) has been at the forefront of technical education in Karnataka, through the continuous implementation of Outcome Based Education (OBE), ensuring that our graduates are able to face up to the challenges demanded by the engineering profession.

Home | NIE

Introduction. Faculties at School of Computer Science are have good number of publications in peer reviewed journal. They are working in the areas like Digital Image Processing, Natural Language Processing ,Signal Processing, Speech recognition, Medical Image processing, Data Mining and

warehousing, Computer Networks, Design and analysis of algorithm, Software Engineering etc. School has well ...

School of Computer Science

Photovoltaic Effect. The photovoltaic effect can be defined as being the appearance of a potential difference (voltage) between two layers of a semiconductor slice in which the conductivities are opposite, or between a semiconductor and a metal, under the effect of a light stream.

Photovoltaic Effect - an overview | ScienceDirect Topics

Anuradha Ashok, in Handbook of Nanomaterials for Industrial Applications, 2018. 41.3.12 Conducting Polymers. Conductive polymers are environmental friendly. In addition, conductive polymers have a relatively high capacitance and high conductivity, wide potential window, high porosity, and relatively low ESR compared to carbon-based electrode ...

Conductive Polymer - an overview | ScienceDirect Topics

Mission. To impart quality higher education and to undertake research and extension with emphasis on application and innovation that cater to the emerging societal needs through all-round development of students of all sections enabling them to be globally competitive and socially responsible citizens with intrinsic values.

List of Faculty - K L Deemed to be University

Ph.D. (1982, Stony Brook), FASc. She is a Professor at the Department of Physics, IISc, Bangalore, is on the Organizing Committee of the IAU Commission on Galaxies, and works on galactic dynamics, interstellar molecular clouds, and interacting galaxies and is the Chief Editor of JAA (IASc). Email: cjjog@physics.iisc.ernet.in

The Women Scientists of India | Women in Science ...

Second-harmonic generation (SHG) is a direct measure of the strength of second-order nonlinear optical effects, which also include frequency mixing and parametric oscillations. Natural and artificial materials with broken center-of-inversion symmetry in their unit cell display high SHG efficiency, however, the silicon-foundry compatible group IV semiconductors (Si, Ge) are centrosymmetric ...

Second Harmonic Generation in Germanium Quantum Wells for ...

Physics, Engineering and Astronomy: Sundquist Science Complex SSC B327: PO Box 4608: Faculty: Longo, Savannah Academic Advisor: 931-221-6585: longos@apsu.edu: Student Success: Sundquist Science Complex SSC E107: PO Box 4544: Staff: Longwell, Shawn ...

Faculty / Staff Directory

In the formation of metal complexes in an aqueous medium, equilibrium constant or stability constant is used to determine the strength of interaction between reagents that make the final product after the formation of bonds. In general stability means that a complex may be stored for a long time under suitable conditions or this compound may be existing under suitable conditions.

Stability Constants of Metal Complexes in Solution ...

Resonant inductive coupling or magnetic phase synchronous coupling is a phenomenon with inductive coupling where the coupling becomes stronger when the "secondary" (load-bearing) side of the loosely coupled coil resonates. A resonant transformer of this type is often used in analog circuitry as a bandpass filter. Resonant inductive coupling is also used in wireless power systems for portable ...

Resonant inductive coupling - Wikipedia

The results of a recent research performed by academics from Stanford University published a comprehensive list that identified the Top 2% most Influential scientists worldwide based on the Scopus publications impact [1]. The report was prepared by Prof. John PA Loannidis of Stanford University and his team [2] and published by Elsevier. Total 3352 Indian researchers found a place in this list ...

Indian Researchers in Stanford University's Top 2% ...

The stability of coordination complex is an important factor that decides the stability and reactivity of a metal complex. The stability of metal complex is governed by two different aspects such as thermodynamic and kinetic stabilities. The correlation between stability and reactivity of coordination compounds has been described in this chapter.

Stability of Metal Complexes | IntechOpen

We would like to show you a description here but the site won't allow us.

Google Business

Invasive fungal infections (IFIs) are opportunistic, especially in immunocompromised and hospitalized patients. Children with IFIs are more vulnerable to a fatal outcome. For early diagnosis and treatment, knowledge of the spectrum and frequency of IFIs among children is prerequisite. In this prospective observational study, we enrolled 168 children of 2–59 months old of either sex from ...

Life | Free Full-Text | Invasive Fungal Infections in ...

Diabetes is a metabolic disease that affected 9.3% of adults worldwide in 2019. Its co-occurrence is suspected to increase mortality from COVID-19. The treatment of diabetes is mainly based on the long-term use of pharmacological agents, often expensive and causing unpleasant side effects. There is an alarming increase in the number of pharmaceuticals taken in Europe. The aim of this paper is ...

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