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Hysical Hemistry Of Urfaces

Tip-enhanced Raman scattering (TERS) has recently demonstrated the exceptional sensitivity to observe vibrational structures on the atomic scale. However, it strongly relies on electromagnetic ...

Atomic Point Contact Raman Spectroscopy of a Si(111)-7 × 7 Surface

Solid-matrix catalysts called heterogeneous catalysts are among the most widespread industrial applications in reducing toxic gases, unburned fuel, and particulate matter in the exhaust stream from ...

The challenge of presenting novel nanostructural bimetallic composite for catalysis

A Hamburg research team is paving the way for new methods of producing tailor-made materials: for the first time, the scientists from DESY NanoLab and the Hamburg University of Technology (TUHH) h ...

Dance of the molecules: New methods of producing tailor-made materials

Single women have revealed the traits they find most attractive in men - including the old-fashioned chivalry, personality, a sense of humour and honesty - so do you agree?

What makes a man attractive? Single women reveal the physical and emotional traits that stand out on a date - and it's more than good looks

The neutron reflexometry method has given scientists an atomic-level insight into the behavior of Bcl-2, a protein that promotes cancerous cell growth. The new study was carried out by Umeå chemists ...

Breakthrough in the understanding of a protein with a key role in cancer

Optimizing electrochemical processes is one of the challenges in developing technologies for renewable energies. New research findings could provide assistance here.

The Role of Hydrophobic Molecules in Catalytic Reactions

The waterproofing coating solution is based on a simple combination of chemicals known as organosilane, water and an industrial solvent.

A Waterproofing Solution for Ordinary Surfaces

Dias, Alison Butler, and everyone on the DIC leadership team for initiating and organizing the Periodic TableTalks program and helping to establish the Sessler Award. In a year when it was hard or ...

Periodic TableTalks: The Elements Never Go Out of Style

The delivery and uptake of nutrients at the surface of plant leaves is an important physicochemical phenomenon that depends on leaf surface morphology and chemistry, fertilizer formulation chemistry ...

Uptake of phosphorus from surfactant solutions by wheat leaves: spreading kinetics, wetted area, and drying time

Our bodies are full of chemicals - we call them 'hormones' and 'neurotransmitters' - and the way they interact with our cells determines our health and behaviour.

Hidden chemistry that rules our lives and loves: Dr MAI THI NGUYEN-KIM says you can transform your health once you've discovered its secrets

Cancer is one of the most dreaded diagnoses most people can imagine receiving. However, no two cancer patients—even if they have the same kind of cancer—experience exactly the same disease. Successful ...

Accelerating cancer treatments with the power of isotopes

The loading and local release of antioxidants to wounds may decrease inflammations. However, the low wettability of PolyPropylene (PP) restricts the drug from loading. So, to increase the adhesion of ...

Development of plasma functionalized polypropylene wound dressing for betaine hydrochloride controlled drug delivery on diabetic wounds

A new coating solution discovered by researchers at Simon Fraser University can transform regular materials into waterproof surfaces. The product will be cheaper to produce, free of harmful ...

Rain, rain, go away: SFU chemistry team discovers new waterproofing solution

Secretary Granholm issued the following statement on President Biden's intent to nominate Dr. Geraldine Richmond, Andrew Light, and Sam Walsh.

Statement by Secretary Granholm on President Biden's Latest Department of Energy Nominees

If not before, then certainly since the first messenger RNA (mRNA) vaccines to combat the SARS CoV2 virus were approved in Germany, mRNA has become a recognized term even outside scientific circles.

Researchers discover new way to improve the subcutaneous administration of mRNA

The National Academy of Sciences announced today that Balazs is among its 120 newly elected members, recognizing distinguished and continuing achievements in original research.

University of Pittsburgh's Anna C. Balazs elected to National Academy of Sciences

The neutron reflexometry method has given scientists an atomic-level insight into the behaviour of Bcl-2, a protein that promotes cancerous cell growth. The new study was carried out by Umeå chemists ...

Breakthrough in the understanding of a protein with a key role in several cancers

Marine scientists say they have found what they believe to be more than 25,000 barrels that possibly contain DDT dumped off the Southern California coast near Catalina Island, where a massive ...

Scientist: Extent of DDT dumping in Pacific is 'staggering'

Patents Granted for Week of April 11. Dallas-Fort Worth ranked No. 13 for patent activity out of 250 metros. Patents granted include: • Allied Biosciences' ...

Dallas Invents: 111 Patents Granted for Week of April 11

Scientists say they have found what they believe to be more than 25,000 barrels that possibly contain DDT dumped off the Southern California coast.