

## Physical Chemistry Of Surfaces

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### Physical Chemistry Of Surfaces

Although the history of bitumen dates back to the third millennium BC, only little is known about its surface structure. Researchers from TU Wien are now shedding light on the nature of the bitumen ...

### The Bitumen Puzzle: Investigating Bitumen Surfaces Using Physicochemical Analysis

One of the most significant challenges in the global R&D effort towards better energy technologies—efficient and accurate material simulation—may be one step closer to being solved, based on new ...

A more efficient method for modeling electrons in materials

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The new compact representation of fermions outperforms all previous representations improving memory use and algorithm size each by at least 25% - a significant step towards realising practical ...

Phasecraft reveals a more efficient method for modelling electrons in materials

In a paper in Nature Chemistry, chemical engineers in the School of Basic Sciences at the Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, investigate another number that must be reported ...

Community comes together to predict oxidation state of complex materials

The Microanalysis Society award recognizes Yimei Zhu 's contributions to materials research through electron microscopy advancements.

Brookhaven Lab Physicist Receives Microanalysis Society's Peter Duncumb Award

"A series of major political events served as the catalyst for exacerbating inherent tensions in the Yugoslav republic," says The Breakup of Yugoslavia, 1990-1992, published by the U.S. State ...

Worldly experience is a catalyst for change

What if we wanted to directly image exoplanets?

Currently, we can do it, but only for a very small subset of exoplanets. In particular, the only planets our modern telescopes — both the larger ...

What Will Our First Image Of ' Earth 2.0 ' Look Like?

Planetary scientists are studying the cumulative effects of small impacts on the surface of Jupiter 's moon

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Europa as they prepare to explore the icy moon with NASA ' s Europa Clipper mission.

Small Impacts Mechanically Churn Uppermost Surface of Jupiter ' s Moon Europa, Researchers Say  
Control Engineering - A new study by engineers at MIT, Caltech, and ETH Z ü rich shows that “ nanoarchitected ” materials — materials designed from precisely patterned nanoscale ...

Ultralight material withstands supersonic microparticle impacts

A team of British researchers has demonstrated the viability of 3D-printed tissue scaffolds that harmlessly degrade while promoting tissue regeneration following implantation. These scaffolds showed ...

Novel 3D-printing resin gets into shape for tissue scaffolds

A member of the Yale faculty since 1994, Eric Altman is an innovative, cross-disciplinary scholar and a leader in the field of chemical engineering.

Altman appointed Roberto C. Goizueta Professor of Chemical Engineering

“ Teachers prepared tailor-made teaching and digital learning materials for the different grades and ages. This was a success considering there were no physical classes during most of the year ...

Edging closer to dreams of becoming a doctor – Fardowsa ' s story

The data and ranking come from Nature Index. Bengaluru-based research institute Jawaharlal Nehru

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Centre for Advanced Scientific Research (JNCASR) has found a place among the top 50 rising institutions ...

Nature Index Ranks Bengaluru-Based JNCASR In Top 50 Rising Institutions For Materials Science Globally  
Chemistry can be one of the deciding factors in JEE examination. Most students often rank it as one of the easiest sections. Students can score full marks in this section and stand a chance to improve ...

JEE Main 2021: How to Score Full Marks in Chemistry Section of Engineering Entrance

Nanotechnology is becoming central to several fields of engineering in today ' s high-tech world. It can be applied across many fields where improvements in materials and devices at atomic or molecular ...

Nanotechnology Advanced Materials: Know Study, Career Options in Emerging Field

UTSA faculty member Oleg Larionov, an associate professor with tenure in the College of Sciences ' Department of Chemistry, has been named a Robert A. Welch Distinguished University Chair effective ...

Chemistry professor named Welch Distinguished University Chair

Researchers in Britain and the United States have found ways to recycle electric vehicle batteries that can drastically cut costs and carbon emissions, shoring up sustainable supplies for an expected ...

New recycling techniques set to make electric vehicles greener

Kebotix, a U.S.-based technology platform company for

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new chemicals and materials, today announced that Dr. Florian Budde has joined its advisory panel. Budde, 60, recently retired as a senior partner ...

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