

Understanding Solids The Science Of Materials

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Understanding Solids The Science Of

Researchers from the Faraday Institution's SOLBAT project have made a significant step in understanding how and why solid-state batteries ... Chemistry and Engineering Science Departments at ...

Critical understanding of why and how solid-state batteries

Dr. Johnson, a virologist at the University of Missouri, had spent much of 2020 studying sewage, collecting wastewater from all over the state and analyzing it for fragments of the coronavirus. People ...

From the Wastewater Drain, Solid Pandemic Data

SMART researchers have developed a method to quantify the distribution of compositional fluctuations in the indium gallium nitride (InGaN) quantum wells at different indium concentrations.

SMART investigates the science behind varying performance of different colored LEDs

Since the 1910s, scientists have been able to map in 3D the atomic structures of crystals, the other major class of solids, which has led to myriad advances in physics, chemistry, biology, materials ...

Century-old problem solved with first-ever 3D atomic imaging of an amorphous solid

University of Warwick astronomer co-authors new study in Nature Astronomy that proposes a solution to long-running question of how white dwarf stars generate magnetic fields A dynamo mechanism, ...

Solution Proposed to Mystery of Incredibly Strong White Dwarf Magnetic Fields

Although robotic devices are used in everything from assembly lines to medicine, engineers have a hard time accounting for the friction that occurs when those robots grip objects — particularly in wet ...

Slippery When Wet: New Law of Physics Helps Humans and Robots Grasp the Friction of Touch

Cancer has been recently shown to be affected by protein clusters, particularly by the aggregation of mutant variants of the tumor suppressor protein p53, which are present in more than half of ...

Phase transition inside the nucleus provides oncogenic function to mutant p53 in cancer

Defect-based spin qubits offer a versatile platform for creating solid-state quantum devices. This Review is a guide for understanding the properties and applications of current spin defects, and ...

Quantum guidelines for solid-state spin defects

Researchers at the University Zurich have mapped the first complete atlas of single cells that make up the human teeth. Their research shows that the composition of human dental pulp and periodontium ...

Researchers map the first complete atlas of single cells that make up the human teeth

Cancerous tumors thrive on blood, extending their roots deep into the fabric of the tissue of their host. They alter the genetics of surrounding cells and evolve to avoid the protective attacks of ...

Penn State researchers develop a way to study microenvironment of breast cancer in 3D

Going forward, how healthcare operates internally and how customers interact with their care providers will be radically different, creating a more customer-centric and convenient approach. At the ...

The Future Of Healthcare Personalization

See allHide authors and affiliations Granular intrusions, such as dynamic impact or wheel locomotion, are complex multiphase phenomena where the grains exhibit solid-like and fluid-like ...

Surprising simplicity in the modeling of dynamic granular intrusion

Predicting earthquakes, removing CO2 from the atmosphere, and conserving water in New Mexico are only a few of the advances artificial intelligence has helped us accomplish.

Artificial intelligence helps solve the most complex problems beneath our feet

Michale Fee has been named head of the MIT Department of Brain and Cognitive Sciences by School of Science Dean Nergis Mavalvala.

Michale Fee appointed head of the Department of Brain and Cognitive Sciences

Once an object of skepticism, microbiome-augmented cancer immunotherapy is being advanced by companies such as Synlogic, Vedanta Biosciences, and Persephone Biosciences.

The Microbiome Gains Momentum in Cancer Immunotherapy

Across their lifetime, sharks can swim enormous distances, but how they completed annual migrations without getting lost hadn't been definitively proven. L ...

Sharks Use Earth's Magnetic Field Like Satnav To Navigate The Ocean

Rutgers Cancer Institute of New Jersey deputy director, chief scientific officer, and associate director for basic research Eileen White is one of 120 scientists recognized for achievements in ...

Eileen White Elected as a Member to the National Academy of Sciences

If you ask Alaska Earthquake Center Director Michael West, he'll tell you that what matters isn't how many seismic stations the state is losing, but how many it gained.

Dozens of Alaska's seismic stations are going offline, but earthquake monitoring is still on solid ground

InGaN light emitting diodes (LEDs) have revolutionized the field of solid-state lighting due to ... amber spectrum caused by the efficiency drop. Understanding and overcoming the efficiency ...

