

## Physics And Technology Of Crystalline Oxide Semiconductor Caac Igzo Fundamentals

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### Physics And Technology Of Crystalline

Superlattice-based structure is flexible and 100 times more energy efficient than previous memory devices of its kind ...

### Phase-change memory gets efficiency boost

The quantum behavior of atomic vibrations excited in a crystal using light pulses has much to do with the polarization of the pulses, say materials scientists from Tokyo Tech. The findings from their ...

### Controlling electrons and vibrations in a crystal with polarized light

Indian Americans Vedika Khemani, assistant professor of physics at Stanford University, and California Institute of Technology Astronomy Professor Mansi Kasliwal have each been named recipients of the ...

### Two Indian American Women Researchers Win 2022 New Horizons 'Oscars of Science' Prize in Physics

The quantum behavior of atomic vibrations excited in a crystal using light pulses has much to do with the polarization of the pulses, say materials scientists from Tokyo Tech. The findings from their ...

### Ruling electrons and vibrations in a crystal with polarized light

The discovery of such a force could potentially resolve some of the biggest open questions in physics today, from the nature of dark energy to the seemingly irreconcilable differences between quantum ...

### New Universal Force Tested by Blasting Neutrons through Crystal

Three separate teams of researchers have created a crystal made entirely of electrons -- and one of them actually did it by accident.

### Straight Out of Science Fiction: Scientists Create a Crystal Made Solely of Electrons

A newly published theoretical and computer modeling study suggests that the world's most powerful lasers might finally crack the elusive physics behind some of the most extreme phenomena in the ...

### Cracking open strong field quantum electrodynamics

Wigner crystals have been theorized for more than 80 years, but this is the first time the elusive crystals have been captured in an image.

### Scientists capture image of bizarre 'electron ice' for the first time

Researchers have developed a new technique for revealing defects in nanostructured vanadium oxide, a widely used transition metal with many potential applications including electrochemical anodes. ...

### Imaging Technique Reveals Strains and Defects in Vanadium Oxide

In a recent paper, researchers at the (SEAS) developed a metasurface that uses very deep, very narrow holes, rather than very tall pillars, to focus light to a single spot. The research is published ...

### New Metalens Focuses Light with Ultra-Deep Holes

How does the work of three Physics Nobel laureates contribute to our understanding of complex physical systems?

### Explained | The 2021 Nobel Prize in Physics

The Center for Atomically Thin Multifunctional Coatings (ATOMIC), operated jointly by Penn State and Rice Universities, has secured renewed funding from the National Science Foundation (NSF) for a new ...

### NSF funds take 2D materials research center to next phase

A new optical transistor has been designed by researchers in Russia, Switzerland, and Germany. The team, led by Anton Zasedatelev at Skoltech in Moscow, used a combination of laser beams, an optical ...

### New optical transistor uses quasiparticle condensate to switch rapidly

Scientists are shedding light on the mysterious origins of ancient meteorite grains using a new analysis method. These grains, which are older than the solar system itself, formed in ancient stars ...

### Ancient meteorites preserve building blocks of early solar system

Humans have been aware of the strange phenomenon of magnetism for over 2,000 years. From ancient Greece through modern times, researchers have steadily improved upon humanity's fundamental ...

### University of Illinois: Longstanding magnetic materials classification problem solved

Materials scientists from Tokyo Tech state that the quantum behavior of atomic vibrations stimulated in a crystal using light pulses has a lot to do with the pulse polarization.

### Coherent Control of Longitudinal Optical Phonons Using Polarized Optical Pulses

To study the stuff of the universe, you have to block it out, and that is exactly what a bold project in regional Victoria is trying to do ...

### 'Waiting for a ghost': the search for dark matter 1km under an Australian town

Meghan Hamilton (left) from the WCD Foundation Board of Directors presents the \$10,000 STEM grant check to Rebecca Clarahan, Principal ...

### St. James receives \$10,000 STEM grant

Say you're driving with a friend in a familiar neighborhood, and the friend asks you to turn at the next intersection. The friend doesn't say which way to turn, but since you both know it's a one-way ...

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