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The development of an ultrathin magnet that operates at room temperature could lead to new applications in computing and electronics - such as high-density, compact spintronic memory devices - and new ...

An one-atom thin 2D magnet could advance new applications in computing and electronics

Scientists have created an ultrathin magnet that operates at room temperature. The ultrathin magnet could lead to new applications in computing and electronics -- such as high-density, compact ...

[Ultrathin magnet operates at room temperature](#)

The development of an ultrathin magnet that operates at room temperature could lead to new applications in computing and electronics--such as high-density, compact spintronic memory devices--and new ...

[Scientists create world's thinnest magnet](#)

It's a huge step up from previous attempts to make a 2D magnet, which have lost their magnetism and stability when removed from ultracold conditions. "We're the first to make a room-temperature 2D ...

[Physicists Just Broke The Record For World's Thinnest Magnet, And It's Wild](#)

This microscope ... defects within a crystal structure and can be very powerful when used in tandem with the lattice imaging capability of the Titan. STEM mode provides an image of the ultra-thin ...

[FEI 200kV Titan Themis STEM](#)

Scanning electron microscopy (SEM) inspection revealed that the ZSM ... Thin foils for S/TEM imaging were prepared from individual MFI crystals by cutting thin sections perpendicular to the c axis, ...

[Time-resolved dissolution elucidates the mechanism of zeolite MFI crystallization](#)

A team of researchers at ETH Zürich was able to observe a unique crystal ... the electron separation was calculated to be around 20 nanometers making it impossible to resolve with the microscope.

[ETH Zürich researchers have observed a crystal composed exclusively of electrons](#)

1E and fig. S2). Closer inspection of transmission electron microscopy (TEM) images suggested that the assemblies were clathrates (Fig. 1F). In addition to large-area single-domain crystals, we ...

[Clathrate colloidal crystals](#)

Its original purpose was to improve electron microscope resolution ... poor coherence of the electron wave were eliminated by incoherent holography using a crystal thin film as an electron-beam ...

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Scientists used Lorentz transmission electron microscopy (LTEM) to visualize topological defects. They were able to do so by passing electrons and observing their deflections through a thin ...

[Scientists observe a new type of topological defect in chiral magnets](#)

Facile crystal plane sliding in the taller nanocrystals appears ... Nonuniform contrast in individual NPLs in transmission electron microscopy (TEM) images arises from the residual strain by the ...

[Determinants of crystal structure transformation of ionic nanocrystals in cation exchange reactions](#)

The findings, led by Graz University of Technology, open new doors for ultra-fast electron microscopy. The investigation and development ... In the future, the LAES process will be studied within thin ...

[Electrons in quantum liquid gain energy from laser pulses](#)

Dislocations have been characterized extensively since the advent of transmission electron microscopy (TEM ... constructing lattices from polymer beads (colloidal crystals); optical microscopy can ...

[In situ visualization of long-range defect interactions at the edge of melting](#)

Tokyo Institute of Technology, with a donation from Professor Emeritus Koichi Asano, established the ASUNARO Grant to support researchers under 45 years of age engaged in basic research. In the first ...

[Tokyo Institute of Technology: ASUNARO Grant established, 5 researchers awarded in first call](#)

Scientists at Berkeley Lab and UC Berkeley have created an ultrathin magnet that operates at room temperature. The ultrathin magnet could lead to new applications in computing and electronics - such ...

[Main attraction: Scientists create world's thinnest magnet](#)

The development of an ultrathin magnet that operates at room temperature could lead to new applications in computing and electronics - such ...