

Interfaces In Materials Atomic Structure Thermodynamics And Kinetics Of Solid Vapor Solid Liquid

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Interfaces In Materials Atomic Structure

Energy-efficient spintronic devices are closer to being realized thanks to a new mechanism predicted by RIKEN physicists for converting between electrical current vortices and a spin current.

2D materials and interfaces can convert spin current into a vortex of charge current

The new tool is based on atomic force microscopy ... two different sections of a material. Those interfaces are key to understanding a material's structure and properties. Images of similar ...

A scattering-type scanning nearfield optical microscope probes materials at the nanoscale

The new tool is based on atomic force microscopy (AFM), in which ... or the interfaces between two different sections of a material. Those interfaces are key to understanding a material ' s structure ...

Custom-made MIT tool probes materials at the nanoscale

(b) Heterogeneous interface of BAs-GaN examined by transmission electron microscopy with atomic resolution. Insets, crystal structure of BAs (bottom ... To keep computer processors cool, materials ...

Cooling high power electronics - boron arsenide spreads heat better than diamond

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' Slidetrronics ' makes its debut

An introduction to the properties of engineering materials that emphasizes the correlation between atomic and microscopic structure and the macroscopic ... The course examines the interfaces between ...

Materials Science and Engineering

Material could be used in future quantum computing applications. An international team of physicists led by the University of Minnesota has discovered that a unique superconducting metal is more ...

Researchers Uncover Unique Properties of a Promising New Superconductor for Quantum Computing

remedy this limitation by showing that an intrinsically centrosymmetric vdW material, h-BN, can be engineered on the atomic scale to become ferroelectric. A bulk h-BN crystal has a layered structure .

Two-dimensional ferroelectricity by design

It is well known how the properties of solids arise from their symmetry, whether this is defined within the bulk interior, or by the presence of a surface or interface ... materials design to control ...

Mesoscale Materials Laboratory

We observe changes from the micrometer to the atomic level ... energy storage materials, or biominerals (2 – 4). Here, functionality is often defined by local heterogeneities in structure and/or ...

Sparse ab initio x-ray transmission spectrotomography for nanoscopic compositional analysis of functional materials

2 Department of Physical Chemistry, School of Chemistry, The Raymond and Beverly Sackler Faculty of Exact Sciences and The Sackler Center for Computational Molecular and Materials ... map of the ...

Interfacial ferroelectricity by van der Waals sliding

These distinct properties at interfaces and surfaces of materials often play ... on the direction of oscillation of the light field relative to the atomic arrangement in the material. "We take ...

Tailored Laser Fields Reveal Properties of Transparent Crystals

Friction and wear of materials accounts for enormous losses in performance ... and mechanical behavior in a class of transition metal nitrides deposited using plasma-enhanced atomic layer deposition.

GOALI: Ultra-Low Wear Plasma Enhanced Atomic Layer Deposited Nitride Thin Films: Exploring Processing, Structure, Properties and Mechanisms

Low-power information processing could be possible using a new method for converting between spin and charge currents enter the cellular nucleus.

Two-dimensional materials and interfaces can convert spin current into a vortex of charge current

These distinct properties at interfaces and surfaces of materials ... oscillation of the light field relative to the atomic arrangement in the material. "We take advantage of this dependence ...