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Interfaces In Materials  
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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

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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

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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 ...

## Solid Liquid

Custom-made MIT tool probes materials at the nanoscale

(b) Heterogeneous interface of BAs-GaN

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Materials by

transmission electron

microscopy with atomic

resolution. Insets, crystal

structure of BAs (bottom

... To keep computer

processors cool, materials

... Solid Vapor

Solid Liquid

Cooling high power

electronics - boron

arsenide spreads heat

better than diamond

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' Slidetronics ' makes  
its debut

An introduction to the  
properties of engineering  
materials that emphasizes  
the correlation between

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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

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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

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Materials  
Atomic  
Structure Therm  
odynamics And  
Kinetics Of  
Solid Vapor  
Solid Liquid

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

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surface or interface ...

materials design to

control ...

Structure Therm

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

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structure and/or ...

Atomic

Sparse ab initio x-ray

transmission

spectrometry 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

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Center for

Computational

Molecular and Materials

... map of the ...

odynamics And

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

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the material. "We take ...

Atomic  
Structure Therm  
odynamics And  
Kinetics Of  
Solid Vapor  
Solid Liquid

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.



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GOAL: 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

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Atomic  
Structure Therm  
odynamics And  
Kinetics Of  
Solid Vapor  
Solid Liquid

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

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advantage of this  
dependence ...

Structure Therm

odynamics And

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Solid Vapor  
Solid Liquid