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we reveal through crossed molecular
beam experiments and electronic
structure calculations that the silicon
monosulfide molecule (SiS) along

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with D1-thiosilaformyl radical (DSiS)
can be efficiently ...

Nonadiabatic reaction dynamics to
silicon monosulfide (SiS): A key
molecular building block to sulfur-
rich interstellar grains

Although the history of bitumen

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dates back to the third millennium BC, only little is known about its surface structure. Researchers from TU Wien are now shedding light on the nature of the bitumen ...

The Bitumen Puzzle: Investigating
Bitumen Surfaces Using

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Physicochemical Analysis Production And Collimation

Harnessing fusion on a commercial scale has been the energy technology sector's holy grail since the 1930s.

Now, that goal is no longer sci-fi fantasy but fast approaching science fact.

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The man-made sun in Oxfordshire that could power our planet created by a British start-up racing against Amazon and Lockheed Martin To date, solving structures of potential therapeutics using X-ray diffraction (XRD) has been a pivotal step in the drug development

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process. But a recent paper by a team
of researchers led by ...

Microcrystal electron diffraction
supports a new drug development
pipeline

Crystallization is one of the most
fundamental processes found in

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nature—and it's what gives minerals, gems, metals, and even proteins their structure.

Scientists design 3D-grown material that could speed up production of new technologies for smart buildings and robotics

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Fusion Plasma diagnostics is a complex problem requiring many different types of atomic and molecular (A+M) data ... measured and calculated during the current work programme; helium beam diagnostics ...

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Atomic and Plasma–Material
Interaction Data for Fusion

The industry is on the verge of an infrared (IR) microscopy and spectroscopy revolution fueled by developments in quantum cascade laser (QCL) technology.

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QCL technology poised to transform
IR spectroscopy, microscopy

The U.S. Department of Energy has granted Critical Decision 1 for the Electron-Ion Collider, a one-of-a-kind nuclear physics research facility to be built at Brookhaven Lab.

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Electron-Ion Collider Achieves Critical
Decision 1 Approval

Medical waste has become a growing problem in China, especially during the height of COVID-19. In May, China introduced its first nuclear-powered electron beam to deal with wastewater.

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How nuclear tech helps China's
COVID-19 battle

The Global GaN Epitaxial Wafers
Market Share, Trends, Analysis and
Forecasts, 2020-2030 provides
insights on key ...

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GaN Epitaxial Wafers Market is
Expected to Expand at a Modest
CAGR of 3.9% through by 2031
A new generation of detector, based
on technology developed by UK
Research and Innovation (UKRI), is set
to transform the field of electron cryo-
microscopy. Technology developed

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STFC technology drives more efficient
cryoEM imaging

The global Genetic Modification
Therapies market report provides
geographic analysis covering regions,
such as North ...

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Genetic Modification Therapies
Market (2021 to 2026) – Industry
Trends, Share, Size, Growth,
Opportunity and Forecasts

The experiments were performed in
the Robert and Ruth Magid Electron
Beam Quantum Dynamics Laboratory

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...waves (also called phonons), and these atomic sound waves create light when they vibrate.

A spatiotemporal symphony of light
In particular, cold atom simulators
use atoms arranged into periodic
structures with laser beams to create

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artificial ... the Institute for Theoretical
Atomic Molecular and Optical Physics
at ...

Quantum researcher Eugene Demler
receives Hamburg Prize for
Theoretical Physics
The International Atomic Energy

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Production (IAEA ... provides food and income for about 700 million Africans. However, its production in sub-Saharan Africa is severely constrained by viral diseases ...

GAEC secures funding from
International Atomic Energy Agency

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to develop disease-tolerant Cassava
The International Atomic Energy
Agency (IAEA ... provides food and
income for about 700 million Africans.
However, its production in sub-
Saharan Africa is severely constrained
by viral diseases ...

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