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x-ray interactions X Ray Interaction X Ray

On our planet, these interactions make beautiful colors in the sky when they ... which took continuous readings using its XMM-Newton X-ray instrument for 26 hours in 2017. The researchers were able to ...

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Researchers solve the mystery of Jupiter's strange pulsating X-ray auroras

An international team of astronomers may have finally cracked the 40-year mystery of Jupiter's powerful and periodic X-ray flares.

Mystery of Jupiter's X-Ray Aurora has been Solved

"X-rays are typically produced by extremely powerful and violent phenomena such as black holes and neutron stars, so it seems strange that mere planets produce them too," said one researcher.

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Astronomers finally uncover 40-year mystery of Jupiter's epic X-ray aurora flares

This is the 'go-to' guide for graduate students, researchers and industry practitioners interested in X-ray and EUV interaction with matter. 'A very clear, comprehensive and updated presentation of ...

X-Rays and Extreme Ultraviolet Radiation

Mysterious flares of X-rays from Jupiter's auroras suggest that the giant planet's "northern lights" may possess unexpected similarities with those of Earth, a new study

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finds. Auroras, the shimmering ...

Mystery of Jupiter's powerful X-ray auroras finally solved

A research team has solved a decades-old mystery as to how Jupiter produces a spectacular burst of X-rays every few minutes. A research team co-led by UCL (University College London) has solved a ...

Scientists Solve 40-Year Mystery Over Jupiter's Spectacularly Powerful X-ray Aurora

APL scientists have helped solve a decades-old mystery as to how Jupiter produces a

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spectacular burst of X-rays every few minutes. Critical measurements of the local environment came from APL's ...

Johns Hopkins APL Scientists Help Solve the 40-Year Mystery of Jupiter's X-ray Aurora

The X-rays could be coming from several sources, according to a press release on the study. They could be caused by interactions between charged particles in Uranus' upper atmosphere and the ...

Scientists Discover X-Rays Blasting Out of Uranus

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X-ray absorption near-edge spectroscopy (XANES), the measurement ... Hence, catalysts of highest activity might not be derivable from amorphous surface deposits enriched in V 5+ or the interaction of ...

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

a graduate student at the Institute for X-ray Physics at the University of Göttingen. "In addition, we used models and simulations to show that the direct interaction leads to

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stabilization," added ...

Taking a Close Look at Interactions Between Cellular Filaments

For forty years, astronomers have been trying to figure out why Jupiter produces a mysterious but spectacular burst of X-rays every few minutes. Now, finally, scientists have an explanation for ...

Scientists finally figure out what causes Jupiter's X-ray aurora

"Among the three soft X-ray FEL facilities in the world ... high coherence will allow

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researchers to study the functions and interactions of living cells and observe the subtle dynamic processes ...

X-ray laser provides a window on cellular life

In addition to biophysical characterization methods, the team used X-ray crystallography and small ... to quantify the interaction affinity. The team noted how FATZ-1 interacted with α -actinin ...

Order from disorder in the sarcomere
who led the project together with Professor

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Sarah Köster from the Institute for X-ray Physics, says, "In addition, we used models and simulations to show that the direct interaction leads to ...

Stronger together: how protein filaments interact

Earthworms experience constant chemical interactions with bacteria ... of the same animal that is recorded with micro-computed X-ray tomography. The latter is a non-invasive approach allowing ...

Seeing the earthworm in a new light

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Jupiter is a stunning planet in many ways, with its beautiful bands of clouds, the largest storm in the solar system, and unusual phenomena like geometric storms at its poles.

Mystery of Jupiter's Strange Pulsating X-Ray Auroras Solved

Jupiter's intense aurora polaris, also known as northern and southern lights, have puzzled astronomers around the world. Now, scientists have finally uncovered the mystery behind the gas giant 's epic ...

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40-year mystery of Jupiter's X-ray aurora flares finally uncovered

Earthworms experience constant chemical interactions with bacteria ... of the same animal that is recorded with micro-computed X-ray tomography. The latter is a non-invasive approach allowing ...

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