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Date: 10 Dec 2024

Evgeny Velikhov (1935-2024)

<https://www.iter.org/node/20687/evgeny-velikhov-1935-2024>

[Latest ITER Newsline: <https://www.iter.org/whatsnew/442>]

General Atomics Completes First Round of Testing on New Ceramic Fuel Cladding

<https://www.energy.gov/ne/articles/general-atomics-completes-first-round-testing-new-ceramic-fuel-cladding>

US and UK partner with Tokamak Energy on ST40 upgrade

<https://www.world-nuclear-news.org/articles/us-and-uk-partner-with-tokamak-energy-on-st40-upgrade>

Fusion with a Twist: Improving Stellarators

<https://www.energy.gov/science/articles/fusion-twist-improving-stellarators>

A technosignature that could detect an extraterrestrial civilization's reliance on nuclear fusion

<https://phys.org/news/2024-12-technosignature-extraterrestrial-civilization-reliance-nuclear.html>

ALICE finds first ever evidence of the antimatter partner of hyperhelium-4

<https://phys.org/news/2024-12-alice-evidence-antimatter-partner-hyperhelium.html>

Small but mighty

<https://www.lanl.gov/media/publications/national-security-science/2024-winter/small-but-mighty>

Andlinger Center conference unpacks AI's double-edged role in the clean energy transition

<https://engineering.princeton.edu/news/2024/12/09/andlinger-center-conference-unpacks-ais-double-edged-role-clean-energy-transition>

Novatron Fusion Group's Groundbreaking Fusion Energy Confinement Technology Secures €3 million in EIC Pathfinder Funding

<https://www.prnewswire.com/news-releases/novatron-fusion-groups-groundbreaking-fusion-energy-confinement-technology-secures-3-million-in-eic-pathfinder-funding-302325961.html>

New Ligo India testing facility to enhance gravitational wave research

<https://www.indiatoday.in/science/story/new-ligo-india-testing-facility-to-enhance-gravitational-wave-research-2645356-2024-12-05>

Controlling polaritons at room temperature paves the way for high-speed computing

<https://phys.org/news/2024-12-polaritons-room-temperature-paves-high.html>

Father time: the physicist on a mission to build the world's first nuclear clock

<https://www.nature.com/articles/d41586-024-03891-4>

IAEA assesses Korea's nuclear safety regulations

<https://www.neimagazine.com/news/iaea-assesses-koreas-nuclear-safety-regulations/>

Framatome to share fast reactor experience with Japan

<https://www.world-nuclear-news.org/articles/framatome-to-share-fast-reactor-experience-with-japan>

[Of Interest] Google unveils 'mind-boggling' quantum computing chip

<https://www.bbc.com/news/articles/c791ng0zvl3o>

[Of Interest] Publishers are selling papers to train AIs — and making millions of dollars

<https://www.nature.com/articles/d41586-024-04018-5>

[Of Interest] Nature's 10 - Ten people who helped shape science in 2024

<https://www.nature.com/immersive/d41586-024-03890-5/index.html>

Recent Peer-Reviewed Articles of Interest

A new design concept of actively cooled plasma-facing units for the divertors of fusion reactors

<https://www.sciencedirect.com/science/article/pii/S2352179124002618>