

Date: 30 May 2025

FYI - Fusion News/Alerts

Fusion energy surges in Great Lakes region

<https://www.ans.org/news/2025-05-28/article-7071/fusion-energy-surges-in-great-lakes-region/>

Nuclear: Fusion energy, the first magnet for the Italian DTT project ready

<https://www.media.enea.it/en/press-releases-and-news/years-archive/year-2025/nuclear-fusion-energy-the-first-magnet-for-the-italian-dtt-project-ready.html>

World premiere in fusion research: high-energy particles generated by radio waves in Wendelstein 7-X

<https://www.fz-juelich.de/en/news/archive/announcements/2025/world-premiere-in-fusion-research-high-energy-particles-generated-by-radio-waves-in-wendelstein-7-x>

Liquid carbon created for the first time, offering breakthrough for nuclear fusion reactors

<https://eandt.theiet.org/2025/05/22/liquid-carbon-created-first-time-offering-breakthrough-nuclear-fusion-reactors>

Formal design review completed for Infinity Two fusion power plant

<https://www.power-technology.com/news/type-one-energy-design-review-infinity-two/>

Breaking through the noise: WSComm's revolution in spectrum sharing

<https://inl.gov/feature-story/breaking-through-the-noise-wscomms-revolution-in-spectrum-sharing/>

Researchers measure the structure of liquid carbon – an unprecedented achievement in fusion energy research

https://www.uv.es/uvweb/uv-news/en/news/researchers-measure-structure-liquid-carbon-an-unprecedented-achievement-fusion-energy-research-1285973304159/Novetat.html?id=1286435705972&plantilla=UV_Noticies/Page/TPG_DetaillNews

Ion-beam plasma interaction in ion fast ignition nuclear fusion scheme: A systematic study of the hot-spot properties and gains

<https://journals.aps.org/pre/abstract/10.1103/PhysRevE.111.055206>

Influence of effective interactions and nuclear densities on the dynamics of heavy-ion fusion

<https://journals.aps.org/prc/abstract/10.1103/PhysRevC.111.054621>

How Magnetic Reconnection Jolts Electrons

<https://physics.aps.org/articles/v18/108>

Strong Nuclear Force Is Not So Weak at Electroweak Temperatures

<https://physics.aps.org/articles/v18/s68>

IAEA Hosts World's First Major Gathering of Nuclear Community Leaders

<https://www.iaea.org/newscenter/news/iaea-hosts-worlds-first-major-gathering-of-nuclear-community-leaders>

Ballistic electrons chart a new course for next-gen terahertz devices

<https://phys.org/news/2025-05-ballistic-electrons-gen-terahertz-devices.html>

Recent Peer-Reviewed Articles of Interest

Divertor shaping with neutral baffling as a solution to the tokamak power exhaust challenge

<https://www.nature.com/articles/s42005-025-02121-1>

The design progress of neutral beam duct liner remote handling tool in ITER blanket remote handling system

<https://www.sciencedirect.com/science/article/pii/S0920379625004132>

Melting of tantalum under high pressure: in situ x-ray diffraction and ab initio molecular dynamic simulations

<https://pubs.aip.org/aip/jap/article/137/20/205905/3347515/Melting-of-tantalum-under-high-pressure-in-situ-x>

A new single flux rope experiment for studying the dynamics of a magnetized plasma jet

<https://pubs.aip.org/aip/rsi/article/96/5/053505/3347493/A-new-single-flux-rope-experiment-for-studying-the>

Direct-drive fusion experiments gain insights from machine learning-driven 3D reconstructions

<https://www.aip.org/scilights/direct-drive-fusion-experiments-gain-insights-from-machine-learning-driven-3d-reconstructions>

Thickness reduction of hydraulic connectors in ITER blanket shield block based on feasibility verification through mock-up testing

<https://www.sciencedirect.com/science/article/pii/S0920379625004090>

Impact plasma amplification of the ancient lunar dynamo

<https://www.science.org/doi/full/10.1126/sciadv.adr7401>

[Of Interest]

No laughing matter: a comic book about the climate crisis

<https://physicsworld.com/a/no-laughing-matter-a-comic-book-about-the-climate-crisis/>

Rethinking science and mathematics pedagogy in Indian higher education

<https://www.currentscience.ac.in/Volumes/128/09/0874.pdf>