

Date: 20 Aug 2025

FYI - Fusion News/Alerts

Fusion Energy: The next generation of clean energy

<https://www.wtwco.com/en-gb/insights/2025/08/fusion-energy-the-next-generation-of-clean-energy>

Finding the shadows in a fusion system faster with AI

<https://www.pppl.gov/news/2025/finding-shadows-fusion-system-faster-ai>

LLNL pushes frontier of fusion target design with AI

<https://www.llnl.gov/article/53216/llnl-pushes-frontier-fusion-target-design-ai>

Europe starts testing high voltage supplies to heat ITER

<https://europeantimes.news/2025/08/europe-starts-testing-high-voltage-supplies-to-heat-iter/>

Predicting fusion ignition at the National Ignition Facility with physics-informed deep learning

<https://www.science.org/doi/10.1126/science.adm8201>

A portable device for large-sized microwave plasma jets

<https://www.aip.org/scilights/a-portable-device-for-large-sized-microwave-plasma-jets>

Improving Predictions for Fusion Device Transport

<https://www.energy.gov/science/fes/articles/improving-predictions-fusion-device-transport>

Theoretical study reveals failure of key quark-gluon plasma probe in low-energy region

<https://phys.org/news/2025-08-theoretical-reveals-failure-key-quark.html>

Unlocking the sun's secret messengers: DUNE experiment set to reveal new details about solar neutrinos

<https://phys.org/news/2025-08-sun-secret-messengers-dune-reveal.html>

UK nuclear site set for revival as fusion fuel and medical isotope hub

<https://mugglehead.com/uk-nuclear-site-set-for-revival-as-fusion-fuel-and-medical-isotope-hub/>

Graphite ‘hijacks’ the journey from molten carbon to diamond

<https://physicsworld.com/a/graphite-hijacks-the-journey-from-molten-carbon-to-diamond/>

Nuclear waste could be a source of fuel in future reactors

<https://www.acs.org/pressroom/presspacs/2025/august/nuclear-waste-could-be-a-source-of-fuel-in-future-reactors.html>

FYI – LIBRARY NEWS/ALERTS

Supernovae: How to spot them at record speed

<https://www.eurekalert.org/news-releases/1094229>

ASU welcomes new leader of groundbreaking compact X-ray laser project

<https://news.asu.edu/b/20250818-asu-welcomes-new-leader-groundbreaking-compact-xray-laser-project>

Recent Peer-Reviewed Articles of Interest

Temporal fusion of entangled resource states from a quantum emitter

<https://www.nature.com/articles/s41467-025-62130-0>

Plasma diagnostic techniques based on terahertz radiation

<https://pubs.aip.org/aip/apr/article/12/3/031314/3358497/Plasma-diagnostic-techniques-based-on-terahertz>

Application and Coupling of NEUTRO, a Deterministic Neutron Transport Solver for Fusion Applications in the Alya Multiphysics Environment

<https://www.tandfonline.com/doi/full/10.1080/15361055.2025.2504314>

An update on ITER and the ITER Neutral Beam progress and development

<https://iopscience.iop.org/article/10.1088/1748-0221/20/08/C08016/pdf>

Radioactive waste analysis and disposal following KSTAR device diverter upgrade

<https://www.sciencedirect.com/science/article/pii/S0920379625005381>

Parameterized anomalous transport model for current-carrying collisionless plasmas in pulsed power inertial confinement fusion

<https://pubs.aip.org/aip/pop/article/32/8/082305/3359526/Parameterized-anomalous-transport-model-for>

[Of Interest]

When science is the only shareholder in research publishing

<https://www.aps.org/apsnews/2025/08/science-only-shareholder-research-publishing>

Congress resists Trump-level science cuts but time short for deal

<https://www.aps.org/apsnews/2025/08/congress-resists-trump-science-cuts>