

Date: 22 Oct 2025

FYI - Fusion News/Alerts

30th FEC in Chengdu - The fusion consensus is strengthening

<https://www.iter.org/node/20687/fusion-consensus-strengthening>

[Latest ITER Newslines: <https://www.iter.org/whatsnew/473>]

EUROfusion and ITER plan closer ties in R&D, training

<https://www.iter.org/fr/node/20687/eurofusion-and-iter-plan-closer-ties-rd-training>

F4E launches the 2025 Fusion Technology Transfer Award

<https://fusionforenergy.europa.eu/news/f4e-launches-the-2025-fusion-technology-transfer-award/>

World-first use of 3D magnetic coils to stabilise fusion plasma

<https://www.niauk.org/world-first-use-of-3d-magnetic-coils-to-stabilise-fusion-plasma/>

World's largest superconducting fusion system will use American technology to measure the plasma within

<https://www.pppl.gov/news/2025/world%E2%80%99s-largest-superconducting-fusion-system-will-use-american-technology-measure-plasma>

Energy Department Announces Fusion Science and Technology Roadmap to Accelerate Commercial Fusion Power

<https://www.energy.gov/articles/energy-department-announces-fusion-science-and-technology-roadmap-accelerate-commercial>

Fusion energy gets energised with a new deployment phase

<https://www.euractiv.com/news/nuclear-fusion-gets-energised-with-a-new-deployment-phase/>

Nordic study on siting of fusion pilot plant

<https://www.world-nuclear-news.org/articles/nordic-study-on-siting-of-fusion-pilot-plant>

Tokamak Energy joins DOE fusion initiative

<https://www.neimagazine.com/news/tokamak-energy-joins-doe-fusion-initiative/>

German start-up unveils fusion blueprint

<https://www.neimagazine.com/news/german-start-up-unveils-fusion-blueprint/>

CFS leverages DeepMind AI for SPARC

<https://www.neimagazine.com/news/cfs-leverages-deepmind-ai-for-sparc/>

Discovery of new mechanism concerning plasma confinement performance

<https://www.eurekalert.org/news-releases/1102165>

Magnetized plasmas offer a new handle on nanomaterial design

<https://www.eurekalert.org/news-releases/1102784>

Magnetized plasmas offer a new handle on nanomaterial design

<https://phys.org/news/2025-10-magnetized-plasmas-nanomaterial.html>

Tritium takes centre stage

<https://www.neimagazine.com/analysis/tritium-takes-centre-stage/>

India to build medical isotopes reactor

<https://www.neimagazine.com/news/india-to-build-medical-isotopes-reactor/>

Brazil and China sign MoU on radioisotopes

<https://www.world-nuclear-news.org/articles/brazil-and-china-sign-mou-on-radioisotopes>

Amazon provides update on its Washington project with X-energy

<https://www.ans.org/news/2025-10-20/article-7473/amazon-provides-update-on-its-washington-project-with-xenergy/>

France and Italy strengthen scientific cooperation for the future of nuclear energy

<https://www cea.fr/english/Pages/News/France-Italy-strengthen-scientific-cooperation-future-nuclear-energy.aspx>

Diagnostic techniques provide three-dimensional hydrodynamics of seawater hydrogen extraction

<https://www.aip.org/scilights/diagnostic-techniques-provide-three-dimensional-hydrodynamics-of-seawater-hydrogen-extraction>

Recent Peer-Reviewed Articles of Interest

Learning plasma dynamics and robust rampdown trajectories with predict-first experiments at TCV

<https://www.nature.com/articles/s41467-025-63917-x>

A compact and reconfigurable millimeter-wave back-end for next-generation fusion reactors

<https://iopscience.iop.org/article/10.1088/1748-0221/20/10/C10015>

Diffusion of Atoms in Glassy Mixtures of Deuterium and Lithium

<https://pubs.acs.org/doi/10.1021/acs.jpcc.5c04245>

Optimized characterization of three-dimensional arrangements for microgravity dusty plasmas using direct imaging studied from simulation

<https://pubs.aip.org/aip/pop/article/32/10/103704/3368628/Optimized-characterization-of-three-dimensional>

Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability

<https://pubs.aip.org/aip/pop/article/19/10/103105/263594/Ion-acceleration-from-thin-foil-and-extended>

[*Of Interest*]

Universities are embracing AI: will students get smarter or stop thinking?

<https://www.nature.com/articles/d41586-025-03340-w>