

Date: 06 Aug 2025

FYI - Fusion News/Alerts

F4E signs collaboration agreement with Proxima Fusion

<https://fusionforenergy.europa.eu/news/f4e-signs-collaboration-agreement-with-proxima-fusion/>

A dual ion beam tests new steel under fusion energy-producing conditions

<https://ners.engin.umich.edu/2025/08/05/a-dual-ion-beam-tests-new-steel-under-fusion-energy-producing-conditions/>

Los Alamos, Lawrence Livermore achieve fusion ignition with groundbreaking approach

<https://www.lanl.gov/media/news/0731-fusion-ignition>

China launches fusion-focused company

<https://www.ans.org/news/article-7244/china-launches-fusionfocused-company/>

Researchers make key gains in unlocking the promise of compact X-ray free-electron lasers

<https://phys.org/news/2025-07-key-gains-compact-ray-free.html>

Cracking the alchemist's code: fusion energy company looks to turn mercury into gold

<https://www.kitco.com/news/article/2025-07-30/cracking-alchemists-code-fusion-energy-company-looks-turn-mercury-gold>

Physics-tailored machine learning reveals unexpected physics in dusty plasmas

<https://www.pnas.org/doi/10.1073/pnas.2505725122>

Simulations reveal surprising electron temperatures near M87 black hole's event horizon

<https://phys.org/news/2025-07-simulations-reveal-electron-temperatures-m87.html>

Inside Washington's New Energy Policy

<https://www.hbs.edu/bigs/inside-washingtons-new-energy-policy>

Physicist awarded prestigious Fellowship to investigate quark-gluon plasma

<https://news.liverpool.ac.uk/2025/08/04/physicist-awarded-prestigious-fellowship-to-investigate-quark-gluon-plasma/>

U.S. Nuclear Energy Plans Could Proliferate Weapons

<https://www.scientificamerican.com/article/u-s-nuclear-energy-policy-could-accelerate-weapons-proliferation/>

Recent Peer-Reviewed Articles of Interest

Low-density plasma as a key catalyst for electron acceleration in the Van Allen radiation belts

<https://www.nature.com/articles/s42005-025-02223-w>

ARTEMIS Observations of Electron Cyclotron Harmonic Waves in the Lunar Plasma Environment

<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2025GL116971>

Enhanced photon deceleration in an electron beam-assisted laser wakefield accelerator

<https://pubs.aip.org/aip/pop/article/32/7/073110/3356977/Enhanced-photon-deceleration-in-an-electron-beam>

An Extended Kalman Filter approach for tokamak plasma equilibrium reconstruction

<https://www.sciencedirect.com/science/article/pii/S0920379625005599>

Machine-learned trends in mirror configurations in the large plasma device

<https://pubs.aip.org/aip/pop/article/32/8/082106/3357758/Machine-learned-trends-in-mirror-configurations-in>

Transient characteristic analysis of dual-frequency dielectric barrier discharge based on numerical simulation

<https://pubs.aip.org/aip/pop/article/32/8/083502/3357777/Transient-characteristic-analysis-of-dual>

Tritium permeation experiments; design choices and appropriateness to fusion application research

<https://www.sciencedirect.com/science/article/pii/S0920379625005472>

Nonlocal effects on thermal transport in hydrodynamic simulations of unmagnetized MagLIF-relevant gaspipes on NIF

<https://pubs.aip.org/aip/pop/article/32/8/082104/3357448/Nonlocal-effects-on-thermal-transport-in>

Influence of the iron core on three-dimensional magnetic field in the J-TEXT tokamak

<https://www.sciencedirect.com/science/article/pii/S0920379625005708>

[Of Interest]

Sleuths and scientific institutions are not rivals

<https://www.nature.com/articles/d41586-025-02347-7>