

Date: 28 Aug 2025

FYI - Fusion News/Alerts

Fernanda Rimini – at the forefront of fusion research

<https://euro-fusion.org/eurofusion-news/fernanda-rimini-at-the-forefront-of-fusion-research/>

Low-energy nuclear fusion boosted by electrochemistry

<https://www.nature.com/articles/d41586-025-02254-x>

Startup secures major funding in quest to build 'another sun' on Earth: 'The ultimate step'

<https://www.thecooldown.com/green-tech/helical-fusion-company-helix-kanata-reactor/>

Inverted Plasma Shape Shows Promise for Future Fusion Power Plant Design

<https://www.energy.gov/science/fes/articles/inverted-plasma-shape-shows-promise-future-fusion-power-plant-design>

Plasma group publishes new framework to advance fusion energy research

<https://phys.org/news/2025-08-plasma-group-publishes-framework-advance.html>

Researchers Identify Weak Points in Diamond Fusion Fuel Capsules

<https://today.ucsd.edu/story/researchers-identify-weak-points-in-diamond-fusion-fuel-capsules>

Fermi America announces three new partnerships

<https://www.ans.org/news/article-7312/fermi-america-announces-three-new-partnerships/>

The new materials laying the foundations for nuclear energy's next generation

<https://www.nature.com/articles/d42473-025-00012-1>

The Unlikely Revival of Nuclear Batteries

<https://spectrum.ieee.org/nuclear-battery-revival>

Highest-resolution images ever taken of a single atom reveal new kind of vibrations

<https://physicsworld.com/a/highest-resolution-images-ever-taken-of-a-single-atom-reveal-new-kind-of-vibrations/>

A nuclear icebreaker first: Female captain takes the helm

<https://www.ans.org/news/article-7309/a-nuclear-icebreaker-first-female-captain-takes-the-helm/>

University of Tennessee scientist's plasma group publishes new framework to advance fusion energy research

<https://www.eurekalert.org/news-releases/1095852>

University adds electrochemical boost in pursuit of cold fusion

FYI – LIBRARY NEWS/ALERTS

<https://www.ans.org/news/article-7308/university-adds-electrochemical-boost-to-pursuit-of-cold-fusion/>

China, Russia, and U.S. Race to Develop Lunar Nuclear Reactors NASA wants one by 2030. Why the rush?

<https://spectrum.ieee.org/lunar-nuclear-reactor-nasa-moon>

New computational tools enable better understanding of TRISO nuclear fuel 'health'

<https://engineering.wisc.edu/news/new-computational-tools-enable-better-understanding-of-triso-nuclear-fuel-health/>

Recent Peer-Reviewed Articles of Interest

Electrochemical loading enhances deuterium fusion rates in a metal target

<https://www.nature.com/articles/s41586-025-09042-7>

Path to a single-stage, 100-GeV electron beam via a flying-focus-driven laser-plasma accelerator

<https://pubs.aip.org/aip/pop/article/32/8/083107/3360356/Path-to-a-single-stage-100-GeV-electron-beam-via-a>

Shock propagation in aerogel and TPP foams for inertial fusion energy target design

<https://pubs.aip.org/aip/pop/article/32/8/082707/3360871/Shock-propagation-in-aerogel-and-TPP-foams-for>

Cold atmospheric plasma selectively suppresses oral squamous carcinoma through ROS-mediated mitochondrial dysfunction

<https://pubs.aip.org/aip/apl/article/127/8/083701/3360506/Cold-atmospheric-plasma-selectively-suppresses>

Identification of a magnetohydrodynamic trigger for plasma explosions in magnetic fusion beyond existing paradigms

<https://www.nature.com/articles/s41598-025-16713-y>

Extracting temperature of plasma through fusion reactions within a transport approach

<https://pubs.aip.org/aip/pop/article/32/8/083902/3360284/Extracting-temperature-of-plasma-through-fusion>

[Of Interest]

Physics thrives when everyone can participate

<https://www.aps.org/about/news/2025/08/thrives-everyone-participate>

Four physics societies meet with congressional leaders about STEM workforce

<https://www.aps.org/apsnews/2025/08/four-societies-congressional-leaders-stem>