

Date: 15 May 2025

FYI - Fusion News/Alerts

Magnet cold test facility - On the fast track to operation

<https://www.iter.org/node/20687/fast-track-operation>

[Latest ITER Newline: <https://www.iter.org/whatsnew/457>]

F4E and VTT advance remote handling solutions for ITER

<https://fusionforenergy.europa.eu/news/vtt-iter-divertor-remote-handling/>

Nuclear Fusion journal recognizes LLNL paper

<https://www.llnl.gov/article/52871/nuclear-fusion-journal-recognizes-llnl-paper>

Microsoft Fusion Summit explores how AI can accelerate fusion research

<https://www.microsoft.com/en-us/research/blog/microsoft-fusion-summit-explores-how-ai-can-accelerate-fusion-research/>

Plasma physics sets upper limit on the strength of ‘dark electromagnetism’

<https://physicsworld.com/a/plasma-physics-sets-upper-limit-on-the-strength-of-dark-electromagnetism/>

Fusion Energy Week begins today

<https://www.ans.org/news/article-7002/fusion-energy-week-begins-today/>

University of Texas-led team solves a big problem for fusion energy

<https://www.eurekalert.org/news-releases/1082718>

In an increasingly energy-hungry world, nuclear power is enticing.

<https://engineering.wisc.edu/news/in-an-increasingly-energy-hungry-world-nuclear-power-is-enticing/>

General Fusion lays off staff due to ‘unexpected and urgent financing constraints’

<https://physicsworld.com/a/general-fusion-lays-off-staff-due-to-unexpected-and-urgent-financing-constraints/>

Sean Gopalakrishnan receives top honor for plasma research

<https://www.colorado.edu/physics/2025/04/30/sean-gopalakrishnan-receives-top-honor-plasma-research>

Recent advances in photoneutron detection: High-precision measurement of photoneutron cross section data using the LCS source

<https://www.eurekalert.org/news-releases/1083509>

Europe blackouts turn spotlight on power systems - and more top energy stories

<https://www.weforum.org/stories/2025/05/blackouts-resilience-carbon-capture-top-energy-stories/>

FYI – LIBRARY NEWS/ALERTS

It is rocket science: Clemson physics graduate aims high with atmospheric research

<https://news.clemson.edu/it-is-rocket-science-clemson-physics-graduate-aims-high-with-atmospheric-research/>

Scientists Crack 70-Year Fusion Puzzle, Paving Way for Clean Energy

<https://scitechdaily.com/scientists-crack-70-year-fusion-puzzle-paving-way-for-clean-energy/>

U.S. Naval Research Lab's NIKE laser refocused from NIF to nuclear deterrence...

<https://optics.org/news/16/5/10>

This is what an aurora looks like on Mars

<https://physicsworld.com/a/this-is-what-an-aurora-looks-like-on-mars/>

Good Practices in the Operation and Maintenance of Low Energy Electrostatic Accelerators

<https://www.iaea.org/publications/15471/good-practices-in-the-operation-and-maintenance-of-low-energy-electrostatic-accelerators>

Coated Particle Fuels for High Temperature Gas Cooled Small Modular Reactors

<https://www.iaea.org/publications/15833/coated-particle-fuels-for-high-temperature-gas-cooled-small-modular-reactors>

Recent Peer-Reviewed Articles of Interest

Advanced Simulation of ITER Core X-ray Crystal Spectroscopy

<https://pubs.aip.org/aip/rsi/article/96/5/053503/3346465/Advanced-Simulation-of-ITER-Core-X-ray-Crystal>

Oxidation behaviour of EUROFER-97 under simulated water-cooled lithium lead breeder blanket conditions

<https://www.nature.com/articles/s41529-025-00600-y>

Average magnetic drift models for ion temperature gradient-driven instability in tokamaks

<https://pubs.aip.org/aip/pop/article/32/5/052104/3346796/Average-magnetic-drift-models-for-ion-temperature>

Operation and remote collaboration tools in view of the ITER neutral beam test facility experimental campaigns

<https://www.sciencedirect.com/science/article/pii/S0920379625002273>

Electromagnetic instability and turbulence in plasmas with positive and negative triangularity

<https://pubs.aip.org/aip/pop/article/32/5/052302/3346887/Electromagnetic-instability-and-turbulence-in>

Asymptotic self-similar spherical expansion and its application to the diagnosing of compressed plasma

<https://pubs.aip.org/aip/pop/article/32/5/052704/3346886/Asymptotic-self-similar-spherical-expansion-and>

Development of a high charge 10 GeV laser electron accelerator

<https://pubs.aip.org/aip/pop/article/32/5/053102/3346446/Development-of-a-high-charge-10-GeV-laser-electron>

Spatially and temporally resolved plasma parameter estimations of laser heated MagLIF relevant gas pipes at NIF

<https://pubs.aip.org/aip/pop/article/32/5/052705/3346888/Spatially-and-temporally-resolved-plasma-parameter>

Thermal conductivity of SiO₂ grown by plasma enhanced chemical vapor deposition

[https://pubs.aip.org/aip/jap/article/137/17/175109/3345913/Thermal-conductivity-of-SiO₂-grown-by-plasma](https://pubs.aip.org/aip/jap/article/137/17/175109/3345913/Thermal-conductivity-of-SiO2-grown-by-plasma)

[Of Interest]

‘Chatty’ artificial intelligence could improve student enthusiasm for physics and maths, finds study

<https://physicsworld.com/a/chatty-artificial-intelligence-could-improve-student-enthusiasm-for-physics-and-maths-finds-study/>