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Date: 10 Mar 2025

FYI - Fusion News/Alerts

International Women's Day: Nuclear Needs Women

<https://iaea.shorthandstories.com/nuclear-needs-women/>

Europe delivers its second sector of ITER Vacuum Vessel

<https://fusionforenergy.europa.eu/news/europe-delivers-its-second-sector-for-iter-vacuum-vessel/>

First Light Fusion opens up tech for R&D

<https://www.powerengineeringint.com/nuclear/first-light-fusion-opens-up-tech-for-rd/>

Tritium: A Few Kilograms Can Make or Break Nuclear Fusion

<https://kleinmanenergy.upenn.edu/commentary/blog/tritium-a-few-kilograms-can-make-or-break-nuclear-fusion/>

Physicists capture elusive plasma instability in unprecedented detail

<https://www.imperial.ac.uk/news/261677/physicists-capture-elusive-plasma-instability-unprecedented/>

Engineering materials for extreme conditions

<https://www.queensu.ca/gazette/stories/engineering-materials-extreme-conditions>

VIPC Invests in NearStar Fusion to Advance Clean Energy and Virginia's Nuclear Fusion Ecosystem

https://www.einnews.com/pr_news/791014112/vipc-invests-in-nearstar-fusion-to-advance-clean-energy-and-virginia-s-nuclear-fusion-ecosystem

X-Ray Spectral Imaging Probes How Sun-Like Plasma Blocks Light

<https://physics.aps.org/articles/v18/44>

APS announces editor in chief, Robert Rosner

<https://www.aps.org/about/news/2025/03/editor-chief-robert-rosner>

Neutrinos could tell us about the inside of the sun and establish density structure

<https://phys.org/news/2025-03-neutrinos-sun-density.html>

Eni and UKAEA to build the world's largest and most advanced tritium fuel cycle facility

<https://www.niauk.org/eni-and-ukaea-to-build-the-worlds-largest-and-most-advanced-tritium-fuel-cycle-facility/>

UKAEA and Eni join forces to engineer world-leading fusion fuel facility

<https://www.thechemicalengineer.com/news/ukaea-and-eni-join-forces-to-engineer-world-leading-fusion-fuel-facility/>

UKAEA and F-REI sign collaboration in robotics research

<https://www.gov.uk/government/news/ukaea-and-f-rei-sign-collaboration-in-robotics-research>

Recent Peer-Reviewed Articles of Interest

Finite-temperature static local-field-correction factor in warm-dense-matter stopping-power calculation

<https://pubs.aip.org/aip/pop/article/32/3/032704/3338923/Finite-temperature-static-local-field-correction>

Formation of hot spots and arc ignition on tungsten with nano-tendrils bundles under high-density hydrogen plasma exposure

<https://www.nature.com/articles/s41598-025-92412-y>

External charge perturbation in a flowing plasma and electrostatic turbulence

<https://pubs.aip.org/aip/pop/article/32/3/032301/3338732/External-charge-perturbation-in-a-flowing-plasma>

Experimental and computational study of phase space dynamics in strongly coupled plasmas with steep density gradients

<https://pubs.aip.org/aip/pop/article/32/3/032104/3338723/Experimental-and-computational-study-of-phase>

Spontaneous evolution of density peaking factor in TEM turbulence-dominated H-mode plasma on the EAST Tokamak

<https://www.nature.com/articles/s41598-025-91363-8>

[Of Interest]

Microsoft quantum computing 'breakthrough' faces fresh challenge

<https://www.nature.com/articles/d41586-025-00683-2>

Thousands gather across U.S. and world in Stand Up for Science events

<https://www.science.org/content/article/thousands-gather-across-u-s-stand-science-events>

AI tools are spotting errors in research papers: inside a growing movement

<https://www.nature.com/articles/d41586-025-00648-5>