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Date: 28 Feb 2025

FYI - Fusion News/Alerts

Manufacturing starts for ITER microwave diagnostics

<https://fusionforenergy.europa.eu/news/iter-collective-thomson-scattering-diagnostics/>

Some fusion fuel will be trapped in the inner walls of a fusion vessel. Researchers now have a better idea of how much.

<https://www.pppl.gov/news/2025/some-fusion-fuel-will-be-trapped-inner-walls-fusion-vessel-researchers-now-have-better>

Will neutrons compromise the operation of superconducting magnets in a fusion plant?

<https://news.mit.edu/2025/will-neutrons-compromise-superconducting-magnets-operation-fusion-plant-0228>

Fusion scientist named chief of the U.K.'s national funding agency

<https://www.science.org/content/article/fusion-scientist-named-chief-u-k-s-national-funding-agency>

The quest for better fusion reactors is putting a new generation of superconductors to the test

<https://physicsworld.com/a/the-quest-for-better-fusion-reactors-is-putting-a-new-generation-of-superconductors-to-the-test/>

Dust plasma behavior observed in three dimensions in microgravity during parabolic flights

<https://ww2.aip.org/scilights/dust-plasma-behavior-observed-in-three-dimensions-in-microgravity-during-parabolic-flights>

Proxima Fusion Unveils Stellaris: A Breakthrough in Fusion Power

<https://www.eetimes.com/proxima-fusion-unveils-stellaris-a-breakthrough-in-fusion-power/>

The University of Manchester awarded key role in multi-million-pound LIBRTI Fusion Fuel Development Project

<https://www.manchester.ac.uk/about/news/the-university-of-manchester-awarded-key-role-in-multi-million-pound-librti-fusion-fuel-development-project/>

A positive flow for researcher Mark Cornelissen: two publications in Nuclear Fusion journal

<https://www.differ.nl/news/mark-cornelissen-nuclear-fusion>

How the U.S. Can Stop Losing the Race for Clean Energy

<https://carnegieendowment.org/research/2025/02/how-the-us-can-stop-losing-the-race-for-clean-energy?lang=en>

Celebrating a decade of innovation: The Gateway for Accelerated Innovation in Nuclear

<https://inl.gov/feature-story/celebrating-a-decade-of-innovation-the-gateway-for-accelerated-innovation-in-nuclear>

IAEA Launches New E-Learning Course on Approaches and Methods for Prospective Radiological Environmental Impact Assessments

<https://www.iaea.org/newscenter/news/iaea-launches-new-e-learning-course-on-approaches-and-methods-for-prospective-radiological-environmental-impact-assessments>

Revolutionary Space Propulsion: Magdrive's Bold Leap into the Cosmos

<https://www.scimag.news/news-en/133939/revolutionary-space-propulsion-magdrives-bold-leap-into-the-cosmos/>

Search Continues for Neutrinoless Decay

<https://physics.aps.org/articles/v18/s21>

IEA Committee on Energy Research and Technology focuses on state and prospects of nuclear fusion at thematic workshop

<https://www.iea.org/news/iea-committee-on-energy-research-and-technology-focuses-on-state-and-prospects-of-nuclear-fusion-at-thematic-workshop>

"Joyful occasion" as ANU accelerator receives international recognition

<https://science.anu.edu.au/news-events/news/joyful-occasion-anu-accelerator-receives-international-recognition>

The man who reinvented the hammer

<https://www.technologyreview.com/2025/02/25/1111041/the-man-who-reinvented-the-hammer/>

Recent Peer-Reviewed Articles of Interest

Quantitative assessment of Ni⁺ and He⁺ ion irradiation damage in a tungsten heavy alloy under the simulated nuclear fusion environment

<https://www.nature.com/articles/s41598-025-89532-w>

Anomalous plasma evolution in the erosion process in high-power reactive magnetron sputtering

<https://pubs.aip.org/aip/pop/article/32/2/023907/3337423/Anomalous-plasma-evolution-in-the-erosion-process>

Instability of DA Mode in Ionospheric Dusty Plasmas

<https://onlinelibrary.wiley.com/doi/10.1002/ctpp.202400123>

Quadrupolar density structures in driven magnetic reconnection experiments with a guide field

<https://pubs.aip.org/aip/pop/article/32/2/022118/3337439/Quadrupolar-density-structures-in-driven-magnetic>

Applicability Analysis of FLUKA for SDDR with FNG-ITER Benchmark

<https://www.tandfonline.com/doi/full/10.1080/15361055.2024.2448414>