

Date: 20 Feb 2025

## **Nuclear fusion: WEST beats the world record for plasma duration!**

<https://www.cea.fr/english/Pages/News/nuclear-fusion-west-beats-the-world-record-for-plasma-duration.aspx>

## **World record fusion plasma in Europe**

<https://euro-fusion.org/member-news/cea/world-record-fusion-plasma-in-europe/>

## **Unlocking the secrets of fusion's core with AI-enhanced simulations**

<https://news.mit.edu/2025/unlocking-secrets-fusions-core-ai-enhanced-simulations-0218>

## **Type One Energy to help grow fusion supply chain**

<https://www.ans.org/news/2025-02-18/article-6766/type-one-energy-to-help-equity-firm-grow-fusion-supply-chain/>

## **Breaking New Ground: JET Tokamak's Latest Fusion Energy Record Shows Mastery of Fusion Processes**

<https://euro-fusion.org/eurofusion-news/dte3record/>

## **Major investment for Birmingham to fast-track fusion fuel development in the UK**

<https://www.birmingham.ac.uk/news/2025/major-investment-for-birmingham-to-fast-track-fusion-fuel-development-in-the-uk>

## **The Russian Plasma Rocket Revolution: Cutting Mars Travel Time to Just Weeks**

<https://www.scimag.news/news-en/122985/the-russian-plasma-rocket-revolution-cutting-mars-travel-time-to-just-weeks/>

## **Experts unite to secure funding and launch fusion energy consultancy**

<https://www.powerengineeringint.com/nuclear/experts-unite-to-secure-funding-and-launch-fusion-energy-consultancy/>

## **IAEA to Host International Symposium on AI and Nuclear Energy in December**

<https://www.iaea.org/newscenter/news/iaea-to-host-international-symposium-on-ai-and-nuclear-energy-in-december>

## **New X-ray experiment could solve major physics puzzles**

<https://phys.org/news/2025-02-ray-major-physics-puzzles.html>

## **High-entropy MOF enables efficient deuterium separation for clean energy**

<https://phys.org/news/2025-02-high-entropy-mof-enables-efficient.html>

## **[Of Interest]**

### **Is It Time to Redefine Time?**

<https://www.scientificamerican.com/article/worlds-most-accurate-clocks-could-redefine-time/>

**Exclusive: These universities have the most retracted scientific articles**

<https://www.nature.com/articles/d41586-025-00455-y>

**Microsoft claims quantum-computing breakthrough — but some physicists are sceptical**

<https://www.nature.com/articles/d41586-025-00527-z>

### *Recent Peer-Reviewed Articles of Interest*

**Verification that electrons are isothermal and protons adiabatic for ion-acoustic waves in unmagnetized collisionless PIC simulation plasma**

<https://pubs.aip.org/aip/pop/article/32/2/024502/3336356/Verification-that-electrons-are-isothermal-and>

**Solitary waves in dusty plasma with two dust species: Effects of dust size distributions**

<https://pubs.aip.org/aip/pop/article/32/2/023703/3336199/Solitary-waves-in-dusty-plasma-with-two-dust>