

Date: 07 Oct 2024

## **UW-Madison, Japan's National Institute for Fusion Science strengthen research partnership**

<https://engineering.wisc.edu/news/uw-madison-japans-national-institute-for-fusion-science-strengthen-research-partnership/>

## **F4E highlights the benefits of fusion at the European Parliament**

<https://fusionforenergy.europa.eu/news/fusion-energy-agencies-european-parliament/>

## **Better Understanding Burning Plasmas in Inertial Confinement Fusion**

<https://ww2.aip.org/sciights/better-understanding-burning-plasmas-in-inertial-confinement-fusion>

## **Julia Stawarz Receives 2024 Ronald C. Davidson Award for Plasma Physics**

<https://publishing.aip.org/about/news/julia-stawarz-receives-2024-ronald-c-davidson-award-for-plasma-physics/>

## **SMART Tokamak: How Negative Triangularity Could Transform Fusion Energy**

<https://scitechdaily.com/smart-tokamak-how-negative-triangularity-could-transform-fusion-energy/>

## **Helixos Plasma Power Framework: How to prepare your country for fusion energy**

<https://fusionenergyinsights.com/blog/post/helixos-plasma-power-framework-how-to-prepare-your-country-for-fusion-energy>

## **TerraPower producing Ac-225 in commercial quantities**

<https://world-nuclear-news.org/articles/terrapower-producing-ac-225-in-commercial-quantities>

## **Livermore Lab Foundation Selects LLNL Fusion Fellows for 2024**

<https://lasers.llnl.gov/news/livermore-lab-foundation-selects-llnl-fusion-fellows-2024>

## **Using antimatter to detect nuclear radiation**

<https://www.sciencedaily.com/releases/2024/10/241001124604.htm>

## **Developing plasma-coated paper as a plastic alternative for the packaging industry**

<https://phys.org/news/2024-10-plasma-coated-paper-plastic-alternative.html>

## **Researchers study 3D printing tungsten parts for extreme conditions in nuclear reactors**

<https://www.news.iastate.edu/news/2024/10/02/tungsten>

## **NASA powers down Voyager 2 plasma instrument to extend mission**

<https://phys.org/news/2024-10-nasa-powers-voyager-plasma-instrument.html>

## **AI's nuclear opportunity**

<https://www.neimagazine.com/analysis/ais-nuclear-opportunity/>

**A new tool for faster, more in-depth analysis of nuclear properties and mass data**

<https://www.eurekalert.org/news-releases/1060146>

**[Of Interest] EU eyes more research to reclaim global science lead**

<https://phys.org/news/2024-10-eu-eyes-reclaim-global-science.html>

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

**ITER full model in MCNP for radiation safety demonstration**

<https://www.nature.com/articles/s41467-024-52667-x>

**Remote RF generation from ultrafast laser plasmas**

<https://pubs.aip.org/aip/jap/article/136/13/133101/3315099/Remote-RF-generation-from-ultrafast-laser-plasmas>

**The influence of laser energy on deuterium emission characteristics from a Zircaloy-4 plasma**

<https://pubs.aip.org/aip/pop/article/31/10/103505/3315456/The-influence-of-laser-energy-on-deuterium>

**Prediction of blastocyst formation based on fusion of morphokinetic and morphological features**

<https://pubs.aip.org/aip/jap/article/136/13/134701/3314944/Prediction-of-blastocyst-formation-based-on-fusion>

**Industrial Applications of Neutrinos**

<https://link.springer.com/article/10.1007/s13538-024-01623-7>

**Electron kinetics near the minimum of Paschen's curves of pulsed breakdown**

<https://pubs.aip.org/aip/pop/article/31/10/103501/3314940/Electron-kinetics-near-the-minimum-of-Paschen-s>