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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/scilights/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>