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Date: 01 Oct 2024

Fusion world - Innovative approaches and how ITER can help

<https://www.iter.org/newsline/-/4077>

[Latest ITER Newline: <https://www.iter.org/whatsnew>]

Fusion And The Future: How To Secure US Leadership

<https://www.forbes.com/councils/forbesfinancecouncil/2024/09/30/fusion-and-the-future-how-to-secure-us-leadership/>

A new and unique fusion reactor comes together with PPPL's contributions

<https://www.pppl.gov/news/2024/new-and-unique-fusion-reactor-comes-together-pppls-contributions>

Longview-LLNL partner on fusion modelling

<https://www.neimagazine.com/news/longview-llnl-partner-on-fusion-modelling/>

Replacing hype about artificial intelligence with accurate measurements of success

<https://www.pppl.gov/news/2024/replacing-hype-about-artificial-intelligence-accurate-measurements-success>

Europe completes manufacture of ITER vessel sector

<https://world-nuclear-news.org/articles/europe-completes-manufacture-of-iter-vessel-sector>

Senators probe global competition in fusion energy deployment

<https://www.ans.org/news/article-6414/senators-probe-global-competition-in-fusion-energy-deployment/>

Three outstanding projects win 2024 fusion innovation prizes

https://research-and-innovation.ec.europa.eu/news/all-research-and-innovation-news/three-outstanding-projects-win-2024-fusion-innovation-prizes-2024-09-25_en

Starting signal for research on the development of additively manufactured tungsten heat shields for nuclear fusion

<https://www.differ.nl/news/OTP-2024>

Satellite data fusion enhances the early detection of convective clouds

<https://phys.org/news/2024-09-satellite-fusion-early-convective-clouds.html>

Telescope captures the most detailed infrared map ever of our Milky Way

<https://phys.org/news/2024-09-telescope-captures-infrared-milky.html>

Work starts at US prototype microreactor site

<https://www.world-nuclear-news.org/articles/work-starts-at-us-prototype-microreactor-site>

Increase Social Acceptability of Nuclear Fusion, Agrivoltaics, and Offshore Wind Through National Support Programmes

https://link.springer.com/chapter/10.1007/978-3-031-66481-6_8

Aligning economic and regulatory frameworks for today's nuclear reactor technology

<https://news.mit.edu/2024/aligning-economic-regulatory-frameworks-todays-nuclear-reactor-technology-0930>

Successful projects lead to Canadian nuclear job surge

<https://world-nuclear-news.org/articles/successful-projects-lead-to-canadian-nuclear-job-surge>

[Of Interest] Sorry, AI won't "fix" climate change

<https://www.technologyreview.com/2024/09/28/1104588/sorry-ai-wont-fix-climate-change/>

Recent Peer-Reviewed Articles of Interest

High-n Rydberg transition spectroscopy for heavy impurity transport studies in W7-X (invited)

<https://pubs.aip.org/aip/rsi/article/95/9/093539/3314072/High-n-Rydberg-transition-spectroscopy-for-heavy>

Binary phase separation in strongly coupled plasma

<https://pubs.aip.org/aip/pop/article/31/9/093702/3314034/Binary-phase-separation-in-strongly-coupled-plasma>

Applicability of alkali beam emission spectroscopy on NSTX-U

<https://pubs.aip.org/aip/rsi/article/95/9/093538/3314073/Applicability-of-alkali-beam-emission-spectroscopy>

Weak baselines and reporting biases lead to overoptimism in machine learning for fluid-related partial differential equations

<https://www.nature.com/articles/s42256-024-00897-5>