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Date: 18 Dec 2024

Backfilling penetrations - Racing against concrete

<https://www.iter.org/node/20687/racing-against-concrete>

[Latest ITER Newsline: <https://www.iter.org/whatsnew/443>]

Improving fusion plasma predictions with multi-fidelity data science models

https://www.spacedaily.com/reports/Improving_fusion_plasma_predictions_with_multi_fidelity_data_science_models_999.html

JET's final deuterium-tritium experiment results revealed one year on

<https://ccfe.ukaea.uk/jets-final-deuterium-tritium-experiment-results-revealed-one-year-on/>

MIT spinout Commonwealth Fusion Systems unveils plans for the world's first fusion power plant

<https://news.mit.edu/2024/commonwealth-fusion-systems-unveils-worlds-first-fusion-power-plant-1217>

Virginia wants to be the home of the world's first commercial nuclear fusion power plant

<https://www.power-eng.com/nuclear/new-projects-nuclear/virginia-wants-to-be-the-home-of-the-worlds-first-commercial-nuclear-fusion-power-plant/>

Millions in Funding for Fusion Research

<https://www.fz-juelich.de/en/news/archive/announcements/2024/millions-in-funding-for-fusion-research>

EUROfusion and Fusion for Energy strengthens collaboration

<https://euro-fusion.org/eurofusion-news/eurofusion-and-fusion-for-energy-strengthens-collaboration/>

Russia completes preliminary design for fusion reactor

<https://www.neimagazine.com/news/russia-completes-preliminary-design-for-fusion-reactor/>

Partnership to develop UK fusion power plant designs

<https://www.world-nuclear-news.org/articles/partnership-to-develop-uk-fusion-power-plant-designs>

Assystem partners on TARANIS fusion project

<https://www.neimagazine.com/news/assystem-partners-on-taranis-fusion-project/>

Australian fusion energy company to partner with ELI ERIC

<https://www.aumanufacturing.com.au/australian-fusion-energy-company-to-partner-with-eli-eric>

Microsoft-backed firm supports fusion innovation

<https://www.neimagazine.com/news/microsoft-backed-firm-supports-fusion-innovation/>

FYI – FUSION NEWS/ALERTS

Europe delivers remote handling flanges and in-vessel ancillary equipment
<https://fusionforenergy.europa.eu/news/europe-delivers-remote-handling-flanges-and-in-vessel-ancillary-equipment/>

Acceleron advances cold fusion technology
<https://www.neimagazine.com/news/acceleron-advances-cold-fusion-technology/>

Inner workings of the neutron illuminated by Jefferson Lab experiment
<https://physicsworld.com/a/inner-workings-of-the-neutron-illuminated-by-jefferson-lab-experiment/>

Human settlement of Mars isn't as far off as you might think
<https://phys.org/news/2024-12-human-settlement-mars-isnt.html>

Italy launches moon nuclear reactor project
<https://www.neimagazine.com/news/italy-launches-moon-nuclear-reactor-project/>

Oak Ridge begins groundwater monitoring for disposal facility
<https://www.neimagazine.com/news/oak-ridge-begins-groundwater-monitoring-for-disposal-facility/>

Recent Peer-Reviewed Articles of Interest

Thermal mechanical evaluation of candidate tokamak divertor elements informing fusion materials design windows
<https://www.sciencedirect.com/science/article/pii/S0920379624006148>

Evaluating deuterated-xylene for use as a fusion neutron spectrometer
<https://pubs.aip.org/aip/rsi/article/95/12/123514/3326333/Evaluating-deuterated-xylene-for-use-as-a-fusion>