

Date: 04 Jun 2025

FYI - Fusion News/Alerts

STAC committee endorses ITER research plans

<https://www.iter.org/node/20687/stac-committee-endorses-iter-research-plans>

[Latest ITER Newline: <https://www.iter.org/whatsnew/459>]

Wendelstein 7-X sets new performance records in nuclear fusion research

<https://www.eurekalert.org/news-releases/1085609>

A 3D-printed part worthy of a Hollywood set stands in for NSTX-U's central magnet

<https://www.pppl.gov/news/2025/3d-printed-part-worthy-hollywood-set-stands-nstx%E2%80%91central-magnet>

TAE Technologies raises \$150m in funding for fusion energy development

<https://www.power-technology.com/news/tae-technologies-fusion-energy-development/>

Exploring materials for fusion energy with ORNL's Yan-Ru Lin

<https://www.eurekalert.org/news-releases/1086036>

German Federal Ministry of Research grants millions for “fusion talent” — Dr. Jonas Ohland will lead GSI/FAIR young investigators group

<https://www.eurekalert.org/news-releases/1085925>

A new type of X-point radiator that prevents tokamaks from overheating

<https://phys.org/news/2025-05-tokamaks-overheating.html>

Information entropy untangles vortices and flows in turbulent plasmas

<https://www.eurekalert.org/news-releases/1085874>

New research determines the thermodynamic properties of the quark gluon plasma

<https://phys.org/news/2025-05-thermodynamic-properties-quark-gluon-plasma.html>

Electronics from Peanut Shells

<https://physics.aps.org/articles/v18/112>

How magnetar flares give birth to gold and platinum

<https://physicsworld.com/a/how-magnetar-flares-give-birth-to-gold-and-platinum/>

Tabletop particle blaster: How tiny nozzles and lasers could replace giant accelerators

<https://phys.org/news/2025-06-tabletop-particle-blaster-tiny-nozzles.html>

Rare Isotopes Shed Light on the Size of a Neutrino Wavepacket

<https://www.energy.gov/science/np/articles/rare-isotopes-shed-light-size-neutrino-wavepacket>

FYI – LIBRARY NEWS/ALERTS

Recent Peer-Reviewed Articles of Interest

Atmospheric pressure plasma treatment increases the antioxidant capacity of the serum in vitro

<https://www.nature.com/articles/s41598-025-03914-8>

Analysis of solitary wave behavior under stochastic noise in the generalized schamel equation

<https://www.nature.com/articles/s41598-025-04696-9>

ITER core plasma thomson scattering diagnostic collection optics design

<https://www.sciencedirect.com/science/article/pii/S0920379625003904>

Algebra of invariants for the Vlasov–Maxwell system

<https://pubs.aip.org/aip/pop/article/32/6/062103/3348212/Algebra-of-invariants-for-the-Vlasov-Maxwell>

Evaluating nonlocal heat transport in directly driven chromium spheres using x-ray spectroscopy

<https://pubs.aip.org/aip/pop/article/32/6/062701/3348077/Evaluating-nonlocal-heat-transport-in-directly>

Automated design rationalization of robot component geometry for ITER blanket remote handling system

<https://www.sciencedirect.com/science/article/pii/S0920379625004156>

Oxidation Mechanisms of (FeCr2V)92%W8% Medium Entropy Alloy for Nuclear Application: Insight from Ab Initio study

<https://pubs.acs.org/doi/10.1021/acs.langmuir.5c00628>

[Of Interest]

Web-scraping AI bots cause disruption for scientific databases and journals

<https://www.nature.com/articles/d41586-025-01661-4>