FYI – LIBRARY NEWS/ALERTS

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FYI - **Fusion News/Alerts**

All elements of central solenoid structure now at ITER
https://www.iter.org/node/20687/all-elements-central-solenoid-structure-now-iter
[Latest ITER Newsline: https://www.iter.org/whatsnew]

New computer code could lead to simpler, less costly stellarators for fusion power
https://www.pppl.gov/news/2025/new-computer-code-could-lead-simpler-less-costly-stellarators-fusion-power

Experts meet to elaborate details of new blueprint
https://www.iter.org/node/20687/experts-meet-elaborate-details-new-blueprint

Fusion for the future: Nuclear lab plays key role in testing a crucial technology
https://inl.gov/feature-story/fusion-for-the-future-nuclear-lab-plays-key-role-in-testing-a-crucial-technology

Renaissance Fusion Raises $33 Million to Advance Low Cost, Low Carbon Fusion Energy
https://www.esgtoday.com/renaissance-fusion-raises-33-million-to-advance-low-cost-low-carbon-fusion-energy/

Key Vacuum Chamber System of China's Next-Gen Fusion Facility Passes Expert Review
https://english.hf.cas.cn/nr/bth/202503/t20250310_903585.html

UK universities launch doctoral training centre for fusion engineers
https://www.thechemicalengineer.com/news/uk-universities-launch-doctoral-training-centre-for-fusion-engineers/

Laser-based radiation detector allows testing from a safer distance
https://phys.org/news/2025-03-laser-based-detector-safer-distance.html

TerraPower and HD Hyundai partner to scale Natrium reactor supply chain
https://www.powerengineeringint.com/nuclear/terrapower-and-hd-hyundai-partner-to-scale-natrium-reactor-supply-chain/

Students Fuel The Future Of Secure Nuclear Energy
https://today.tamu.edu/2025/03/11/students-fuel-the-future-of-secure-nuclear-energy/

The World Considers a Nuclear-Powered Future
https://eepower.com/tech-insights/the-world-considers-a-nuclear-powered-future/#

Physicists use optical vortex beams to control atom ionization
https://phys.org/news/2025-03-physicists-optical-vortex-atom-ionization.html

Recent Peer-Reviewed Articles of Interest

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Propagation of ion cyclotron emission in the DIII-D tokamak
https://pubs.aip.org/aip/pop/article/32/3/032508/3340042/Propagation-of-ion-cyclotron-emission-in-the-DIII

Prediction of the kinetic profiles in H-mode plasma discharges on EAST using core-pedestal coupling
https://www.nature.com/articles/s41598-025-93919-0

Milestone in predicting core plasma turbulence: successful multi-channel validation of the gyrokinetic code GENE
https://www.nature.com/articles/s41467-025-56997-2

Anomalous absorption of high power microwave pulse in a plasma filled waveguide
https://pubs.aip.org/aip/pop/article/32/3/034501/3339091/Anomalous-absorption-of-high-power-microwave-pulse

Plasma-activated water: Effects of gas–liquid interface interaction and discharge intensity on activation properties
https://pubs.aip.org/aip/pop/article/32/3/033505/3339252/Plasma-activated-water-Effects-of-gas-liquid

Comparison of the energization of self-consistent charged particles vs test particles in a turbulent plasma
https://pubs.aip.org/aip/pop/article/32/3/033902/3339446/Comparison-of-the-energization-of-self-consistent

Influence of negative bias voltage on the large-area positive hydrogen ion source
https://pubs.aip.org/aip/pop/article/32/3/033510/3339688/Influence-of-negative-bias-voltage-on-the-large

Inference of flow shear from reciprocating plasma potential measurements by means of Gaussian process regression
https://pubs.aip.org/aip/pop/article/32/3/032507/3339689/Inference-of-flow-shear-from-reciprocating-plasma

[Of Interest]

How researchers can work fairly with Indigenous and local knowledge
https://www.nature.com/articles/d41586-025-00798-6

Scientific misconduct is on the rise. But what exactly is it?
https://phys.org/news/2025-03-scientific-misconduct.html