

## FYI - Fusion News/Alerts

### **Technology - Port plug test facility will operate in 2026**

<https://www.iter.org/node/20687/port-plug-test-facility-will-operate-2026>

### **On site - “The beauty of international cooperation”**

<https://www.iter.org/node/20687/beauty-international-cooperation>

[Latest ITER Newline: <https://www.iter.org/whatsnew/477>]

### **Russia Delivers Key Equipment for the ITER International Fusion Reactor**

<https://www.rosatom.ru/en/press-centre/news/russia-delivers-key-equipment-for-the-iter-international-fusion-reactor/>

### **Zap Energy exceeds gigapascal fusion plasma pressures on new fusion device, FuZE-3**

<https://www.eurekalert.org/news-releases/1106155>

### **Six German states unite for fusion research**

<https://www.world-nuclear-news.org/articles/six-german-states-unite-for-fusion-research>

### **UC Santa Cruz scientists to develop diamond-based sensors to monitor fusion-energy generation**

<https://news.ucsc.edu/2025/11/fusion-energy-diamond-sensors/>

### **The CEA and the international ITER Organization announce that they will host a session of the IAEA's Lise Meitner program in 2026 in Cadarache**

<https://www.cea.fr/english/Pages/News/CEA-ITER-Lise-Meitner-program-2026.aspx>

### **Construction begins on UNITY-2 fusion fuel cycle test facility**

<https://www.ans.org/news/2025-11-13/article-7539/construction-begins-on-unity2-fusion-fuel-cycle-test-facility/>

### **Reactor-grade fusion plasma: First high-precision measurement of potential dynamics**

<https://phys.org/news/2025-11-reactor-grade-fusion-plasma-high.html>

### **Auditors warn of funding risks to ITER fusion project**

<https://sciencebusiness.net/news/partnerships/auditors-warn-funding-risks-iter-fusion-project>

### **California Holds First Statewide Summit on Fusion Energy, Cementing State's Leadership in the Race for Clean Power**

<https://www.businesswire.com/news/home/20251113501961/en/California-Holds-First-Statewide-Summit-on-Fusion-Energy-Cementing-States-Leadership-in-the-Race-for-Clean-Power>

**Effect of nuclear rotation on nucleon transfer and fusion in low-energy heavy-ion collisions**

<https://journals.aps.org/prc/abstract/10.1103/ynd9-n1sy>

**AIP Publishing names Igor Kaganovich as new editor in chief of Physics of Plasmas**

<https://publishing.aip.org/about/news/aip-publishing-names-igor-kaganovich-as-new-editor-in-chief-of-physics-of-plasmas/>

**UK launches innovative nuclear apprenticeships to support fusion and nuclear sectors**

<https://www.associationexecutives.org/resource/uk-launches-innovative-nuclear-apprenticeships-to-support-fusion-and-nuclear-sectors.html>

**Lancaster University to create £2 million nuclear facility control room simulator**

<https://www.lancaster.ac.uk/news/lancaster-university-to-create-2-million-nuclear-facility-control-room-simulator>

**Using AI for Real-Time Control of Rapid-Fire Lasers**

<https://lasers.llnl.gov/news/using-ai-real-time-control-rapid-fire-lasers>

**Shaping the future: new technologies and materials for microchips**

<https://www.mpg.de/25747056/new-technologies-and-materials-for-microchips>

**Reality of the road ahead**

<https://www.ans.org/news/article-7477/reality-of-the-road-ahead/>

**Enriched lithium and advanced nuclear**

<https://www.neimagazine.com/analysis/enriched-lithium-and-advanced-nuclear/>

**Construction begins on X-energy's Oak Ridge advanced fuel facility**

<https://www.ans.org/news/article-7547/construction-begins-on-xenergys-oak-ridge-advanced-fuel-facility/>

### ***Recent Peer-Reviewed Articles of Interest***

**EU-DEMO Concept design of chemical and volume control system: Design main drivers and challenges**

<https://www.sciencedirect.com/science/article/pii/S0920379625007215>

**Physics-consistent machine learning with output projection onto physical manifolds**

<https://www.nature.com/articles/s42005-025-02329-1>

**Plasma ejection phenomenon during non-inductive spherical tokamak start-up by ECH/ECCD on LATE**

<https://iopscience.iop.org/article/10.1088/1361-6587/ae20bd>

**Particle-in-cell simulations of plasma wakefield formation in microwave waveguides**

<https://pubs.aip.org/aip/pop/article/32/11/113102/3372297/Particle-in-cell-simulations-of-plasma-wakefield>

**Is stratification of a rare gas plasma a kinetic or fluid phenomenon?**

<https://pubs.aip.org/aip/pop/article/32/11/112109/3372817/Is-stratification-of-a-rare-gas-plasma-a-kinetic>

**Simulation of surface x-ray emission from the ASTERICS ECR ion source**

<https://pubs.aip.org/aip/rsi/article/96/11/113503/3372752/Simulation-of-surface-x-ray-emission-from-the>

**A critical analysis of electron-beam evaporation of arc-produced macroparticles using an analytical model**

<https://iopscience.iop.org/article/10.1088/1361-6463/ae2035>

**[Of Interest]**

**Google DeepMind won a Nobel prize for AI: can it produce the next big breakthrough?**

<https://www.nature.com/articles/d41586-025-03713-1>

**Powering The AI Boom With Nuclear Energy**

<https://www.forbes.com/councils/forbestechcouncil/2025/11/17/powering-the-ai-boom-with-nuclear-energy/>