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Date: 12 July 2024

### **Europe and Japan celebrate completion of ITER Toroidal Field coils**

<https://fusionforenergy.europa.eu/news/europe-and-japan-celebrate-completion-of-iter-toroidal-field-coils/>

### **Detecting defects in **tomorrow's** technology: New research enhances our understanding of a likely candidate for next-generation computer chips**

<https://www.pppl.gov/news/2024/detecting-defects-tomorrow%E2%80%99s-technology-new-research-enhances-our-understanding-likely>

### **Taking shape: Fusion energy ecosystems built with public-private partnerships**

<https://www.ans.org/news/article-6141/taking-shape-fusion-energy-ecosystems-built-with-publicprivate-partnerships/>

### **The fire that powers the universe: Harnessing inertial fusion energy**

<https://www.ans.org/news/article-6139/the-fire-that-powers-the-universe-harnessing-inertial-fusion-energy/>

### **Interview: UKAEA Technical Lead Engineer Fiona Harden talks fusion**

<https://www.theengineer.co.uk/content/in-depth/interview-ukaea-technical-lead-engineer-fiona-harden-talks-fusion>

### **European researchers reach unmatched level in measurements of matter under extreme conditions**

<https://phys.org/news/2024-07-european-unmatched-extreme-conditions.html>

### **Amorphous and anisotropic surface relief formation in tungsten under repeated high-flux hydrogen plasma loads**

<https://www.differ.nl/bibcite/reference/8992>

### **AtkinsRéalis to design fusion plant for Type One Energy**

<https://www.world-nuclear-news.org/Articles/AtkinsRealis-to-design-fusion-plant-for-Type-One-E>

### **Carter to lead Fusion Energy Division at Oak Ridge National Laboratory**

<https://www.ornl.gov/news/carter-lead-fusion-energy-division-oak-ridge-national-laboratory-0>

### **Advancements in Z-pinch fusion: New insights from plasma pressure profiles**

<https://phys.org/news/2024-07-advancements-fusion-insights-plasma-pressure.html>

### **Split of Fusion Regulation from Fission Codified by New Law**

<https://ww2.aip.org/fyi/split-of-fusion-regulation-from-fission-codified-by-new-law>

### **ORNL Leverages Frontier for Major Updates to SuperLU and STRUMPACK**

<https://www.hpcwire.com/off-the-wire/ornl-leverages-frontier-for-major-updates-to-superlu-and-strumpack/>

**Nuclear fusion to quantum computing: India, Russia explore hi-tech projects**  
[https://www.business-standard.com/external-affairs-defence-security/news/nuclear-fusion-to-quantum-computing-india-russia-explore-hi-tech-projects-124071000924\\_1.html](https://www.business-standard.com/external-affairs-defence-security/news/nuclear-fusion-to-quantum-computing-india-russia-explore-hi-tech-projects-124071000924_1.html)

**New plasma jet technology effectively treats fungal nail infections**  
<https://phys.org/news/2024-07-plasma-jet-technology-effectively-fungal.html>

**UK Industrial Fusion Solutions announces new leadership appointments**  
<https://www.powerengineeringint.com/nuclear/uk-industrial-fusion-solutions-announces-new-leadership-appointments/>

**ITER workshop highlights the role of computing technology in nuclear fusion**  
<https://www.computerweekly.com/news/366593337/ITER-workshop-highlights-the-role-of-computing-technology-in-nuclear-fusion>

**Towards efficient analysis, estimation and control of thermal systems**  
<https://www.tue.nl/en/news-and-events/news-overview/09-07-2024-towards-efficient-analysis-estimation-and-control-of-thermal-systems>

**Regulatory Inspection Programme for Nuclear Fuel Cycle Facilities**  
<https://www.iaea.org/publications/15673/regulatory-inspection-programme-for-nuclear-fuel-cycle-facilities>  
[Download] <https://www-pub.iaea.org/MTCD/Publications/PDF/TE-2062web.pdf>

**Huge neutrino detector sees first hints of particles from exploding stars**  
<https://www.nature.com/articles/d41586-024-02221-y>

**Scientists Study How Bc Mesons Form to Gain More Information from Ultra-Relativistic Heavy-Ion Collisions**  
<https://www.energy.gov/science/np/articles/scientists-study-how-bc-mesons-form-gain-more-information-ultra-relativistic>

**Better mixing leads to faster reactions for key chemicals**  
<https://engineering.princeton.edu/news/2024/07/10/better-mixing-leads-faster-reactions-key-chemicals>

**Brazil aims to establish permanent repository for nuclear waste by 2029**  
<https://www.neimagazine.com/news/brazil-aims-to-establish-permanent-repository-for-nuclear-waste-by-2029/>

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

**Portable and affordable cold air plasma source with optimized bactericidal effect**  
<https://www.nature.com/articles/s41598-024-66017-w>