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Date: 25 July 2024

### **Tokamaks - Different approaches around the world**

<https://www.iter.org/newsline/-/4063>

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

### **Creating loops of liquid lithium for fusion temperature control**

<https://www.pppl.gov/news/2024/creating-loops-liquid-lithium-fusion-temperature-control>

### **First Ministerial Meeting of the IAEA World Fusion Energy Group to be held in Italy in November**

<https://www.iaea.org/newscenter/pressreleases/first-ministerial-meeting-of-the-iaea-world-fusion-energy-group-to-be-held-in-italy-in-november>

### **Key industry report reveals increase in funding for fusion but challenges remain**

<https://www.neimagazine.com/news/key-industry-report-reveals-increase-in-funding-for-fusion-but-challenges-remain/>

### **Gov't to invest \$863.7 mil. into nuclear fusion research**

[https://www.koreatimes.co.kr/www/nation/2024/07/113\\_379088.html](https://www.koreatimes.co.kr/www/nation/2024/07/113_379088.html)

### **Japan-UK enhance cooperation on fusion**

<https://www.world-nuclear-news.org/Articles/Japan-UK-enhance-cooperation-on-fusion>

### **UW-Madison one step closer to harnessing the power of the sun through fusion research**

<https://www.wpr.org/news/uw-madison-one-step-closer-to-harnessing-the-power-of-the-sun-through-fusion-research>

### **Realta Fusion and Wisconsin University record highest ever magnetic field in plasma experiment**

<https://www.neimagazine.com/news/realta-fusion-and-wisconsin-university-record-highest-ever-magnetic-field-in-plasma-experiment/?cf-view>

### **Gainsborough STEPs forward to fusion energy**

<https://www.niauk.org/gainsborough-steps-forward-to-fusion-energy/>

### **Turning 'Ambition into Action' at the 3rd Global Forum for Nuclear Innovation**

<https://www.iaea.org/newscenter/news/turning-ambition-into-action-at-the-3rd-global-forum-for-nuclear-innovation>

### **Building a Sun on Earth: ITER's Historic Milestone in Fusion Energy Development**

<https://scitechdaily.com/building-a-sun-on-earth-iters-historic-milestone-in-fusion-energy-development/>

### **Relativistic electron–positron pair beams in a laboratory**

<https://www.nature.com/articles/s41550-024-02331-7>

### **LLNL Researchers Uncover Key to Resolving ICF Hohlraum Drive Deficit**

<https://lasers.llnl.gov/news/llnl-researchers-uncover-key-resolving-icf-hohlraum-drive-deficit>

### **Fleischmann Proposes \$9 Billion Boost for Advanced Nuclear Energy Projects**

<https://ww2.aip.org/fyi/fleischmann-proposes-9-billion-boost-for-advanced-nuclear-energy-projects>

### **IAEA's Grossi highlights the growing promise of nuclear energy**

<https://www.ans.org/news/article-6228/iaeas-grossi-highlights-the-growing-promise-of-nuclear-energy/>

### **Heaviest element yet within reach after major breakthrough**

<https://www.nature.com/articles/d41586-024-02416-3>

### **Oklo completes demonstration of advanced fuel recycling process**

<https://www.neimagazine.com/news/oklo-completes-demonstration-of-advanced-fuel-recycling-process/>

### **Long Term Operation of Nuclear Fuel Cycle Facilities**

<https://www.iaea.org/publications/15637/long-term-operation-of-nuclear-fuel-cycle-facilities>

[Download] <https://www-pub.iaea.org/MTCD/Publications/PDF/TE-2059web.pdf>

### **Carbon pricing reduces emissions**

<https://www.nature.com/articles/d41586-024-02293-w>

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

#### **Research and economic evaluation on novel pulse superconducting magnet power supply topology with energy storage for fusion devices**

<https://www.sciencedirect.com/science/article/pii/S0920379624004514>

#### **Ion temperature and rotation velocity measurements of carbon and boron ions using VUV spectroscopy on EAST**

<https://pubs.aip.org/aip/rsi/article/95/7/073525/3303826/ion-temperature-and-rotation-velocity-measurements>

#### **The medium-temperature dependence of jet transport coefficient in high-energy nucleus–nucleus collisions**

<https://link.springer.com/article/10.1007/s41365-024-01492-4>