

## FYI - Fusion News/Alerts

### **Have you ever wondered what it's like inside an operating tokamak?**

<https://www.iter.org/node/20687/have-you-ever-wondered-what-its-inside-operating-tokamak>

[Latest ITER Newline: <https://www.iter.org/whatsnew/449>]

### **New fusion plasma record set in France with new promise for fusion**

<https://www.powerengineeringint.com/nuclear/new-fusion-plasma-record-set-in-france-with-new-promise-for-fusion/>

### **The Commission of Experts on Nuclear Fusion presents its final report with the participation of Prof. Gerd Leuchs**

<https://mpl.mpg.de/news/article/kernfusion>

### **Showing How Plasma Electrons Can Enhance Fusion Reaction Rates**

<https://lasers.llnl.gov/news/showing-how-plasma-electrons-can-enhance-fusion-reaction-rates>

### **Plasma arc cutting: Scientists decode gas flow dynamics**

<https://phys.org/news/2025-02-plasma-arc-scientists-decode-gas.html>

### **Colliding plasma ejections from the sun generate huge geomagnetic storms**

<https://phys.org/news/2025-02-colliding-plasma-ejections-sun-generate.html>

### **EUROfusion's Fusion in Europe Newsletter, February 24, 2025**

<https://euro-fusion.org/wp-content/uploads/2025/02/fie-issue-2005-1.pdf>

### **Last Energy Secures UK Nuclear Licensing Milestone for South Wales SMR Project**

<https://www.powermag.com/last-energy-secures-uk-nuclear-licensing-milestone-for-south-wales-smr-project/>

### **Momentum tunnelling across quantum barriers**

<https://www.nature.com/articles/s41565-025-01868-6>

### **Revolutionizing Space: The 30-Day Voyage to Mars**

<https://www.scimag.news/news-en/129142/revolutionizing-space-the-30-day-voyage-to-mars/>

### **The Cosmic Quest for Gold: A Journey Through the Universe**

<https://www.scimag.news/news-en/130855/the-cosmic-quest-for-gold-a-journey-through-the-universe/>

### **Russia Planning to Build More Nuclear Reactors in Iran**

<https://www.powermag.com/russia-planning-to-build-more-nuclear-reactors-in-iran/>

### [Of Interest]

#### **High-performance computing at a crossroads**

<https://www.science.org/doi/10.1126/science.adu0801>

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

#### **Progress and issues with pulsed magnetic fusion**

<https://pubs.aip.org/aip/pop/article/32/2/022507/3336518/Progress-and-issues-with-pulsed-magnetic-fusion>

#### **DISCOVER: New integrated code to simulate helium detached plasma in a linear device**

<https://pubs.aip.org/aip/pop/article/32/2/022508/3336561/DISCOVER-New-integrated-code-to-simulate-helium>

#### **Dust-acoustic solitons in self-gravitating magnetized dusty plasmas**

<https://pubs.aip.org/aip/pop/article/32/2/022115/3336524/Dust-acoustic-solitons-in-self-gravitating>

#### **Electron cyclotron resonance (ECR) plasmas: A topical review through representative results obtained over the last 60 years**

<https://pubs.aip.org/aip/jap/article/137/7/070701/3336643/Electron-cyclotron-resonance-ECR-plasmas-A-topical>

#### **On the reliability of a modification of the fluid model of a glow discharge incorporating the calculation of the local EEDF at each point in space**

<https://pubs.aip.org/aip/pop/article/32/2/023904/3336663/On-the-reliability-of-a-modification-of-the-fluid>

#### **Integrated modeling of advanced tokamaks for tearing mode avoidance on DIII-D**

<https://pubs.aip.org/aip/pop/article/32/2/022510/3336666/Integrated-modeling-of-advanced-tokamaks-for>

#### **Magnetic modulation of keyhole instability during laser welding and additive manufacturing**

<https://www.science.org/doi/10.1126/science.ad08554>