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Date: 21 Aug 2024

### **In fusion, collaboration is both a necessity and an opportunity**

<https://www.nature.com/articles/s42254-024-00746-9>

### **AI and Innovation Pioneering the Future of Urban Air Mobility**

<https://www.financialexpress.com/business/express-mobility-ai-and-innovation-pioneering-the-future-of-urban-air-mobility-3586112/>

### **DOE Awards \$4.6m for Fusion Research**

<https://www.world-energy.org/article/44148.html>

### **Why fusion research benefits from astrophysics**

[https://www.ipp.mpg.de/5442065/astro\\_jenko](https://www.ipp.mpg.de/5442065/astro_jenko)

### **More durable metals for fusion power reactors**

<https://news.mit.edu/2024/more-durable-metals-fusion-power-reactors-0819>

### **UK initiative targets fusion skills and future workforce**

<https://www.world-nuclear-news.org/Articles/UK-initiative-targets%C2%A0fusion-skills-and-future-wor>

### **Opinion The world-changing ‘killer app’ for AI could be nuclear fusion**

<https://www.washingtonpost.com/opinions/2024/08/20/artificial-intelligence-nuclear-fusion-research/>

### **Superconducting Wire Sets New Current Capacity Record**

<https://spectrum.ieee.org/high-temperature-superconductor-current-capacity>

### **Teenager’s school project achieves plasma**

<https://www.ans.org/news/article-6304/teenagers-school-project-achieves-plasma/>

### **Strength of US High-Magnetic-Field Science is Waning, Academies Report Warns**

<https://ww2.aip.org/fyi/strength-of-us-high-magnetic-field-science-is-waning-academies-report-warns>

### **Primordial black holes are too scarce to explain dark matter**

<https://www.nature.com/articles/d41586-024-02526-y>

### **Channeling Lightning Energy Into Space: New “Whistler” Wave Transforms Our Understanding of Earth’s Magnetosphere**

<https://scitechdaily.com/channeling-lightning-energy-into-space-new-whistler-wave-transforms-our-understanding-of-earths-magnetosphere/>

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

### **Fusion decommissioning and regulation (UK-STEP perspectives)**

<https://iopscience.iop.org/article/10.1088/1741-4326/ad569f>

**DIII-D research to provide solutions for ITER and fusion energy**

<https://iopscience.iop.org/article/10.1088/1741-4326/ad2fe9>

**Radiative plasma simulations of black hole accretion flow coronae in the hard and soft states**

<https://www.nature.com/articles/s41467-024-51257-1>

**Microstructural investigation of Au ion-irradiated Eu-doped LaPO<sub>4</sub> ceramics and single crystals**

<https://www.nature.com/articles/s41529-024-00504-3>

**Helium plasma operations on ASDEX Upgrade and JET in support of the non-nuclear phases of ITER**

<https://iopscience.iop.org/article/10.1088/1741-4326/ad6335/meta>

**Study on human brain protection from electromagnetic radiation of mobile phone by plasma**

<https://pubs.aip.org/aip/pop/article/31/8/083517/3309140/Study-on-human-brain-protection-from>