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Date: 05 Sep 2024

### **U.K. researchers reveal glimpse of designs for novel fusion power plant**

<https://www.science.org/content/article/u-k-researchers-reveal-glimpse-designs-novel-fusion-power-plant>

### **Nuclear fusion progressing rapidly, Labour's approach not yet clear – report**

<https://www.power-technology.com/news/although-nuclear-fusion-is-progressing-rapidly-labours-approach-isnt-clear-yet/>

### **The Legal Framework of Nuclear Fusion**

<https://www.mpil.de/en/pub/research/areas/public-international-law/the-legal-framework-of-nuclear.cfm>

### **Major equipment shipment for ITER**

<https://www.neimagazine.com/news/major-equipment-shipment-for-iter/>

### **Japanese Startup Helical Fusion to Build World's First Steady-State Fusion Reactor by 2034**

<https://asiatechdaily.com/japanese-startup-helical-fusion-to-build-worlds-first-steady-state-fusion-reactor-by-2034/>

### **Harnessing the sun's energy with the next generation of solar technology**

<https://www.luxtimes.lu/luxembourg/harnessing-the-sun-s-energy-with-the-next-generation-of-solar-technology/18859308.html>

### **UK leading the world in fusion powerplant design, according to new Royal Society publication**

<https://www.niauk.org/uk-leading-the-world-in-fusion-powerplant-design-according-to-new-royal-society-publication/>

### **Norway and South Korea collaborate on SMR study**

<https://www.neimagazine.com/news/norway-and-south-korea-collaborate-on-smr-study/>

### **Why your next batteries might be nuclear-powered**

<https://www.sciencefocus.com/future-technology/nuclear-battery>

### **A day in the life of the world's fastest supercomputer**

<https://www.nature.com/articles/d41586-024-02832-5>

### **Measuring the gamma-ray-to-neutron branching ratio in the deuterium-tritium reaction**

<https://phys.org/news/2024-09-gamma-ray-neutron-ratio-deuterium.html>

### **High-Energy Collisions Unveil New Clues to the Universe's Origins**

<https://scitechdaily.com/high-energy-collisions-unveil-new-clues-to-the-universes-origins/>

### **Astonishing Nuclear Breakthrough Could Rewrite Fundamental Constants of Nature**

<https://ana.ir/en/news/6919/astonishing-nuclear-breakthrough-could-rewrite-fundamental-constants-of-nature>

### **How the Designer of the First Hydrogen Bomb Got the Gig**

<https://spectrum.ieee.org/richard-garwin>

### **Microsoft Can Take The Lead In Small Modular Reactors For Powering AI**

<https://www.forbes.com/sites/bobeccles/2024/08/31/microsoft-can-take-the-lead-in-small-modular-reactors-for-powering-ai/>

### **NASA, ESA missions help scientists uncover how solar wind gets energy**

<https://www.eurekalert.org/news-releases/1056339>

### **Metal foil as 3D scanner for electron beam**

<https://www.eurekalert.org/news-releases/1056283>

### **Improving a spacecraft's return to Earth**

<https://ww2.aip.org/scilights/improving-a-spacecrafts-return-to-earth>

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

#### **Lessons learned from European and Japanese production of ITER toroidal field coils**

<https://iopscience.iop.org/article/10.1088/1741-4326/ad3e8c>

#### **Visualizing plasmons and ultrafast kinetic instabilities in laser-driven solids using X-ray scattering**

<https://www.nature.com/articles/s42005-024-01776-6>

#### **Hall MHD waves: A fundamental departure from their MHD counterparts**

<https://pubs.aip.org/aip/pop/article/31/9/090701/3310985/Hall-MHD-waves-A-fundamental-departure-from-their>

#### **Effect of radiofrequency bias power on transmission spectrum of flat-cutoff sensor in inductively coupled plasma**

<https://pubs.aip.org/aip/pop/article/31/9/093501/3310984/Effect-of-radiofrequency-bias-power-on>