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Date: 24 Dec 2024

### **Podcast: A Milestone in Laser-Plasma Acceleration**

<https://physics.aps.org/articles/v17/185>

### **Building the fusion energy rulebook**

<https://www.neimagazine.com/analysis/building-the-fusion-energy-rulebook/>

### **PPPL leading two CHIPS and Science Act projects**

<https://www.pppl.gov/news/2024/pppl-leading-two-chips-and-science-act-projects>

### **Power Electronics Development for Plasma and Nuclear Fusion Systems**

<https://psatellite.com/technology/power-electronics-development-for-plasma-and-nuclear-fusion-systems/>

### **Plasma heating efficiency in fusion devices boosted by metal screens**

<https://www.pppl.gov/news/2024/plasma-heating-efficiency-fusion-devices-boosted-metal-screens>

### **Will the World's First Nuclear Fusion Power Plant Be Built in Virginia? Here's Why We're Skeptical**

<https://www.scientificamerican.com/article/will-the-worlds-first-nuclear-fusion-power-plant-be-built-in-virginia-heres/>

### **Stabilizing fusion reactions is a learning process — for AI systems and the engineers who design them**

<https://engineering.princeton.edu/news/2024/12/20/stabilizing-fusion-reactions-learning-process-ai-systems-and-engineers-who-design-them>

### **Kyoto Fusioneering Europe Secures Another Landmark Grant from BMBF**

<https://kyotofusioneering.com/en/news/2024/12/18/2743>

### **2024 Wrap-Up: Will Nuclear Fusion Be the Next Renewable Energy?**

<https://eepower.com/tech-insights/2024-wrap-up-will-nuclear-fusion-be-the-next-renewable-energy>

### **New radar algorithm reveals hidden dance of ionospheric plasma**

<https://phys.org/news/2024-12-radar-algorithm-reveals-hidden-ionospheric.html>

### **Seeking Signatures of High-Energy Vortex States**

<https://physics.aps.org/articles/v17/s157>

### **The Convention on Nuclear Safety: 30 Years of Enhancing Nuclear Safety Worldwide**

<https://www.iaea.org/newscenter/news/the-convention-on-nuclear-safety-30-years-of-enhancing-nuclear-safety-worldwide>

### **Renewal of the “Space: sciences and challenges of the space sector” Chair**

<https://www.polytechnique.edu/en/news/renewal-space-sciences-and-challenges-space-sector-chair>

### **CERN highlights in 2024 celebrating 70 years**

<https://home.cern/news/news/cern/cern-highlights-2024-celebrating-70-years>

### **Problem-solver Chad Parish advances materials for nuclear safety**

<https://www.ornl.gov/news/problem-solver-chad-parish-advances-materials-nuclear-safety>

### **LLNL Selected to Lead Next-Gen Extreme Ultraviolet Lithography Research**

<https://lasers.llnl.gov/news/llnl-selected-lead-next-gen-extreme-ultraviolet-lithography-research>

### **Department of Energy Announces \$179 Million for Microelectronics Science Research Centers**

<https://www.energy.gov/science/articles/department-energy-announces-179-million-microelectronics-science-research-centers>

### **Lasers Unlock the Next Frontier in Particle Acceleration**

<https://scitechdaily.com/lasers-unlock-the-next-frontier-in-particle-acceleration/>

### **[Of Interest] We May Be on the Brink of Finding the Real Planet Nine**

<https://www.scientificamerican.com/article/if-planet-nine-exists-we-will-find-it-soon/>

### **Scientific Reports: Collection-Fusion energy**

**Submission status: Open**

**Submission deadline: 18 September 2025**

*"...This Collection welcomes original studies on developing advanced materials (e.g., superconducting magnets and heat-resistant alloys/ceramics) capable of withstanding the extreme conditions of a fusion reactor. It also encourages efforts to refine diagnostic and simulation tools to enhance our understanding of plasma behavior and reactor performance, paving the way for more optimized fusion systems."*

<https://www.nature.com/collections/ddejeddecc>