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FYI - Fusion News/Alerts

Developing materials for stellar performance in fusion power plants

<https://news.mit.edu/2025/developing-materials-stellar-performance-fusion-power-plants-0304>

DOE funds UK research on critical materials for commercial fusion energy

<https://uknow.uky.edu/research/doe-funds-uk-research-critical-materials-commercial-fusion-energy>

WEST claims latest plasma confinement record

<https://www.ans.org/news/article-6811/west-claims-latest-plasma-confinement-record/>

Proxima Fusion publishes pioneering QI stellarator power plant concept

<https://www.powerengineeringint.com/nuclear/proxima-fusion-publishes-pioneering-qi-stellarator-power-plant-concept/>

Will neutrons compromise the operation of superconducting magnets in a fusion plant?

<https://phys.org/news/2025-02-neutrons-compromise-superconducting-magnets-fusion.html>

Deep learning model boosts plasma predictions in nuclear fusion by 1,000 times

<https://phys.org/news/2025-02-deep-boosts-plasma-nuclear-fusion.html>

Space plasma insights could help protect us from the harms of space weather

<https://www.qmul.ac.uk/research/featured-research/space-plasma-insights-could-help-protect-us-from-the-harms-of-space-weather/>

Italy Passes Law to Bring Back Nuclear Energy

<https://www.powermag.com/italy-passes-law-to-bring-back-nuclear-energy/>

Could Neutrinos Tell Us About the Inside of the Sun?

<https://www.universetoday.com/171147/could-neutrinos-tell-us-about-the-inside-of-the-sun/>

Research provides insights into aluminum's optical properties

<https://engineering.llnl.gov/article/52546/research-provides-insights-aluminums-optical-properties>

Scientists cook up the perfect recipe to feed an energy future

<https://inl.gov/feature-story/scientists-cook-up-the-perfect-recipe-to-feed-an-energy-future/>

Thirty years of the Square Kilometre Array: here's what the world's largest radio telescope project has achieved so far

<https://physicsworld.com/a/thirty-years-of-the-square-kilometre-array-heres-what-the-worlds-largest-radio-telescope-project-has-achieved-so-far/>

From classical to quantum: Navier–Stokes equations adapted for 1D quantum liquids

<https://phys.org/news/2025-03-classical-quantum-navierstokes-equations-1d.html>

Iowa Researchers Study Ionosphere's Role in Aurora

<https://physics.uiowa.edu/news/2025/03/iowa-researchers-study-ionospheres-role-aurora>

Recent Peer-Reviewed Articles of Interest

Ion-acoustic waves dynamics in magnetized cometary plasma: nonlinear periodic and super-periodic waves with ion nonextensivity

<https://www.nature.com/articles/s41598-025-89765-9>

Comparative study of dielectric barrier discharge characteristics of methane-air mixed He/Ar

<https://pubs.aip.org/aip/pop/article/32/3/033501/3337556/Comparative-study-of-dielectric-barrier-discharge>

Bohm criterion generalized to multicomponent electronegative plasmas

<https://pubs.aip.org/aip/pop/article/32/3/032103/3338220/Bohm-criterion-generalized-to-multicomponent>

Stimulated Brillouin scattering dependence on polarization state, speckle shape, and polarization smoothing implementation

<https://pubs.aip.org/aip/pop/article/32/3/032102/3338213/Stimulated-Brillouin-scattering-dependence-on>

Cartesian and spherical multipole expansions in anisotropic media

<https://www.nature.com/articles/s42005-025-01988-4>

[Of Interest]

How AI can achieve human-level intelligence: researchers call for change in tack

<https://www.nature.com/articles/d41586-025-00649-4>

China's supreme court calls for crack down on paper mills

<https://www.nature.com/articles/d41586-025-00612-3>