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Nuclear Power Insute Of Physics

Nuclear power cannot compete with the technological, economic, safety and security advantages of the renewable evolution, says Honorary Senior Research Associate, Dr Paul Dorfman (UCL Energy Institute ...

Opinion: Why nuclear power isn't part of the solution to the global climate change crisis

Fusion energy has long been held out as one of the most significant technologies needed to combat the effects of climate change because it could generate an abundance of inexpensive clean energy ...

Startup seeks breakthrough in power from nuclear fusion

An important study for understanding the complex interconnections between basic science and its sources of economic support in the period between the two world wars. The focus of the study is on the ...

Niels Bohr, Philanthropy, and the Rise of Nuclear Physics

Long-theorized phenomenon observed in a working reactor could improve reactor safety, according to a new study. For the first time, the long-theorized neutron-clustering effect in nuclear reactors has ...

Long-Theorized Neutron-Clustering Effect in Nuclear Reactors Demonstrated for First Time

This definitive textbook traces the flow of energy from sources such as solar power, nuclear power ... of Energy and Cecil and Ida Green Professor of Physics and Engineering Systems, Massachusets ...

The Physics of Energy

As nuclear technology plays a significant role in energy generation, efforts to ensure the long-term sustainability of nuclear safety are crucial. Recently, young people in many countries have been ...

Int'l Youth Day: Spurring Interest in Nuclear

MIT researchers train a neural network to predict a "boiling crisis," with potential applications for cooling computer chips and nuclear reactors. Boiling is not just for heating up dinner. It's also ...

Predicting a "Boiling Crisis" — Infrared Cameras and AI Provide Insight Into Physics of Boiling

Nuclear power plants produce about 20% of the United States' electricity. In order to increase the amount of carbon dioxide-free energy these plants can yield, improvements in efficiency and safety ...

Key Improvements to Efficiency and Safety Will Enable Expansion of Nuclear Energy

The company, founded by scientists at M.I.T., has been testing an extremely powerful magnet necessary to generate immense heat.

Massachusetts Start-Up Hopes to Move a Step Closer to Commercial Fusion

Neutron clustering measurements at the Walthousen Reactor Critical Facility at Rensselaer Polytechnic Institute in Schenectady, NY. Credit: Los Alamos National Laboratory The first ever live "snapshot ...

Neutrons cluster in nuclear reactors

It's hardly a secret that nuclear fusion has had a rough time ... China's HL-2M tokamak at Southwestern Institute of Physics (SWIP). Over in China, the final touches have been put on its ...

Nuclear Fusion At 100: The Hidden Race For Energy Supremacy

Duque Geraldyne ULE from Colombia, studying medical physics ... nuclear power plants and to share the correct knowledge on nuclear science. " Nanako Kawano from Japan, studying nuclear ...

Meet the Marie Skłodowska-Curie Fellowship Programme students

In 1946, Mayer and her husband moved to Chicago, where she worked as an associate physics professor at the University of Chicago's Institute for Nuclear ... wield both the power of AI and the ...

Argonne's 2022 Maria Goeppert-Mayer Fellows honor legacy of physics Nobel Laureate

A team of government researchers in China have unveiled the design for a commercial nuclear reactor that ... and colleagues at the Shanghai Institute of Applied Physics wrote in a paper published ...

Could China's molten salt nuclear reactor be a clean, safe source of power?

While comparing nuclear energy with other forms of power production ... Pervaiz did his Masters in Physics and Nuclear Technology from Pakistan and PhD in nuclear engineering and science from ...

Pakistan's Nuclear Program 'symbol of national pride': Dr Ansar

Over the past few weeks, the intensity and scale of the floods from slow-moving storms have broken records, and climate models are running hot.

Climate change: Why nuclear power isn't part of the solution to this global crisis — Dr Paul Dorfman

particularly as nuclear reactors first begin to power up. The study was a collaboration with the Institute for Radiological Protection and Nuclear Safety (IRSN) and the Atomic Energy Commission ...

Neutron-clustering effect in nuclear reactors demonstrated for first time

It is expected that small-scale reactors will be widely deployed in the next few years, " Professor Yan Rui and colleagues at the Shanghai Institute of Applied Physics wrote in a paper published in the ...

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