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Chemical Reactor Ysis And Design

NASA and the US Department of Energy awarded three \$5m contracts to produce reactor-design concepts for trips to Mars.

Nuclear-powered spacecrafts? NASA taps Blue Origin, GE to try it

Ultra Safe Nuclear Technologies and its partners are among three teams winning \$5 million contracts to develop designs for space nuclear propulsion systems.

USNC-Tech and Blue Origin win a contract for nuclear thermal propulsion design

NASA is leading an effort, working with the Department of Energy (DOE), to advance space nuclear technologies. The government team has selected three reactor design concept proposals for a nuclear ...

NASA Announces Nuclear Thermal Propulsion Reactor Concept Awards

NASA and the Energy Department awarded three \$5 million contracts to produce reactor-design concepts that could be used to ... Nuclear propulsion systems are more efficient than standard ...

Bezos, GE, Lockheed are tapped by NASA for nuclear space flight

Argonne National Laboratory researchers have used machine learning to rapidly optimize the application of thin films to semiconductors, a move that may eventually help ease the microchip shortage in ...

Argonne's machine-learning work may help ease US microchip shortage in time

The construction of a 300 MW nuclear power unit with an innovative lead coolant BREST-OD-300 fast reactor has begun at the site of the ROSATOM's TVEL Fuel Company's Siberian Chemical Combine ...

ROSATOM Starts Construction of BREST-OD-300 Fast Neutron Reactor

Synhelion produces sustainable fuels such as gasoline, diesel and kerosene that are compatible with conventional internal combustion engines and jet engines. In order to produce these synthetic fuels ...

A next step towards climate-friendly fuels

Most new nuclear fission reactors being built today are of the light water reactor (LWR) type, which use water for neutron moderation into thermal neutrons as well as neutron capture. While ...

TerraPower's Natrium: Combining A Fast Neutron Reactor With Built-In Grid Level Storage

Figure 1 Image of new process from HPQ and PyroGenesis to make Fumed Silica Figure 1) From to Quartz to Fumed silica – One Step New process from HPQ and PyroGenesis Figure 2 Image of traditional ...

HPQ Silicon and PyroGenesis Sign an Agreement to Develop a New Environmentally Friendly Process to Manufacture Fumed Silica

Looking back at some of the key figures in Argonne's history offers a chance to reflect on some accomplishments that have transformed American science through discoveries in energy, climate, health, ...

People of Argonne's history: A look at leaders who made Argonne what it is today

In ALD, two different chemical vapours, known as precursors ... The complex chemistries between the molecular precursors – Reactor design, temperature and pressure – The timing for each dose of their ...

Researchers use AI to optimize atomic layer deposition (ALD) technique in real time

To make computer chips, technologists around the world rely on atomic layer deposition (ALD), which can create films as fine as one atom thick. Businesses commonly use ALD to make semiconductor ...

Argonne Researchers Use AI to Optimize Material Coating for Making Microprocessors

Cutting edge, but with challenges In ALD, two different chemical vapours ... complex chemistries between the molecular precursors Reactor design, temperature and pressure The timing for each ...

Argonne researchers use AI to optimize a popular material coating technique in real time

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Industrial Wastewater Treatment Market Worth \$78 Billion by 2028 -- Exclusive Report by Meticulous Research(R)

To enable the chemical reactors for solar fuel production to ... and service life. Additionally, a design for the world's first industrial-scale solar fuel plant, to be built by Synhelion ...