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Chemical reactions for flyby trajectories

A new study shows that it is possible to use mechanical force to deliberately alter chemical reactions and increase chemical selectivity—a grand challenge of the field.

Chemical reactions break free from energy barriers using flyby trajectories

Canadian (CNL) is pushing for the use of Small Modular Reactors in remote Arctic communities. During the Arctic Development Expo hosted in Inuvik June 15-16, both the keynote address by CNL president ...

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Canada ' s nuclear industry wants to build reactors in the Arctic
NASA and the U.S. Department of Energy (DOE) have teamed up to fund three design concepts for reactors that could become part of a nuclear thermal propulsion system, a next-generation technology that ...

NASA, DOE fund three nuclear thermal space propulsion concepts
Mechanochemical mechanism exploited to access unconventional trajectories on a reaction's potential energy surface ...

Chemists control reaction path with mechanical force
Nuclear thermal propulsion technology provides high thrust and twice the propellant efficiency of chemical rockets. The system works by transferring heat transferred from the reactor to a liquid ...

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Nuclear thermal systems advance for space propulsion

Plausible synthetic data allows for mapping out the expected information gain of the experimental design space. The chemical kinetics of a membrane reactor are modeled to demonstrate the design of ...

Design of Experiments for Chemical Kinetics Studies

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

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The Department of Energy's Idaho National Laboratory (INL) is collaborating with NASA to advance space nuclear technologies ...

Blue Origin, General Electric win NASA contracts to build nuclear-powered spacecrafts

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

RUDN University chemists obtained a metal-containing complex with an unusual planar architecture. The unexpected structure was formed due to the spontaneous fixation of carbon dioxide from the air ...

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[RUDN University chemists obtained an unusual planar nickel complex exhibiting magnetic properties](#)

The race for chemical engineering is quite literally ... allowing teams to find a way to design a flexible reaction that can accommodate a range of loads and distances. For example, this 2015 ...

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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 ...

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Part of the complex process that turns raw materials into finished products like detergents, cosmetics and flavors relies on enzymes, which facilitate chemical transformations. But finding the right ...

[Allozymes looks to upend chemical manufacturing with rapid enzyme engineering and \\$5M seed](#)

Nuclear energy has lost favor in much of the world, but the sky 's the limit when it comes to outer space. The U.S. government is drawing on the expertise of Jeff Bezos 's Blue Origin space venture, ...

[Bezos, GE, Lockheed Are Tapped by NASA for Nuclear Spaceflight](#)

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However, in the presence of blood, adhesion strength is often compromised. Inspired by the blood clotting activity of snake venom,

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