

Essentials Chemical Reaction Engineering International Edition

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Essentials Chemical Reaction Engineering International

Tranter explores the reactions of chemicals under high temperatures and pressures. Senior (Rob) Tranter of the U.S. Department of Energy's (DOE) Argonne National Laboratory is no stranger to

Argonne senior chemist Robert Tranter named fellow of the Combustion Institute

Lignosulfonate is one of the major industrial products from wood. To utilize this compound as a moldable and strong material, we prepared a complex of lignosulfonate with cationic polyelectrolyte

Biobased and mechanically stiff lignosulfonate/cationic-polyelectrolyte/sugar complexes with coexisting ionic and covalent crosslinks

Coin-style cells of StoreDot's extreme fast charging (XFC) battery will be charged and discharged hundreds of times over two weeks during experiments onboard the International ... give new insights

Zero-gravity battery experiments could lead to better fast charging

Among her many accomplishments, Blackmond pioneered the development of a technique called Reaction Progress ... Blackmond earned her doctorate in chemical engineering from Carnegie Mellon

Scripps Research chemist Donna Blackmond elected to National Academy of Sciences

A Chevron oil refinery in Richmond, California. AP Photo/Paul Sakuma Global oil consumption declined by roughly 9% in 2020 as the pandemic reduced business and pleasure travel, factory production

Oil companies are going all-in on petrochemicals – and green chemistry needs help to compete

Word Stoichiometry," a wordplay game based around a chemistry motif. We're presenting seven different ways pairs of words that can "react" together to produce a new word. For example, in O

Kominers's Conundrums: A Word Chemistry Lab Needs Organizing

As a young child, Catherine Kim visited science museums so much she considered them her second home. She didn't see math or science simply as subjects to be taught in school but rather as v

Research-driven: Jericho student takes prize in Regeneron science contest

Scientists from Nanyang Technological University, Singapore, are working hard to mitigate human impact on the environment.

Transforming research into sustainable solutions

The UCF-developed propulsion system could allow for flight speeds of Mach 6 to 17 (more than 4,600 to 13,000 miles per hour) and would have applications in air and space travel. University of

New Propulsion System Could Enable Flying at Speeds Up to Mach 17

And as they learned more about how the coronavirus could hang suspended in aerosols for hours, the committee urged Armbruster to turn his attention to ventilation and ways to maximize the

Caution to the Wind

Processing industries are the backbone of New Zealand, and Massey provides research and training to ensure ongoing success. Massey University scientists have expertise in the use of microorg

Chemical, bioprocess and environmental engineering

Developing self-healing materials is nothing new for Nancy Sottos, lead of the Autonomous Materials Systems (AMS) group in the Beckman Institute for Advanced Science and Technology at the U

New manufacturing process pushes vascular materials to the front

To create the host materials, scientists opt for frontal polymerization, a reaction-thermal diffusion system that uses the generation and diffusion of heat to promote two different chemical ...

Scientists discover faster way to manufacture vascular materials

An expert from synthetic biology tech firm Antheia offers ways to rethink current sourcing and manufacturing strategies to tackle current and future woes.

Could synthetic biology solutions fix supply chain challenges?

HEATH -- As a college student in 1960, Oscar Johnson fought for civil rights while also learning as much as he could about chemical engineering ... an award caused a reaction of disbelief ...

Boeing chemist civil rights protestor in 1960, Black Engineer of the Year in 2021

University of Central Florida researchers are building on their technology that could pave the way for hypersonic flight, such as travel from New York to Los Angeles in under 30 minutes.

Flying at up to Mach 16 could become reality with UCF's developing propulsion system

The experiment will be among a selected number of Israeli research projects to be performed on the International Space ... to gain new insights into the chemical reactions that cause silicon ...

Fast-charging battery startup gets NASA nod for research in space

Global oil consumption declined by roughly 9% in 2020 as the pandemic reduced business and pleasure travel, factory production and transportation of goods. This abrupt drop accelerated an on

Oil companies are all-in on petrochemicals—green chemistry needs help to compete

(Bloomberg Opinion) --This past week was the Regeneron International Science and Engineering Fair, a worldwide competition among high school science whizzes, who present top-notch research

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