

Concept Design Of Chemical Processes

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There is no underestimating the impact that the process manufacturing industry has on society today. Process manufacturing deals with formulas and basic ingredients, as in biotech, pharma and chemical ...

How Industry 5.0 Will Transform Process Manufacturing As We Know It

This textbook puts design ... in chemical engineering. Employers and accreditations increasingly stress the importance of design in the engineering curriculum, and design-driven analysis will motivate ...

Chemical Engineering Design and Analysis

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

To deal with the global plastic waste problem, a great deal of hope is placed in chemical recycling processes. But can the process hold up to these high expectations? An expert discussion at Achema ...

Closing the Loop with Chemical Recycling: Potentials and Challenges

Biology also plays an increasingly important role. What do chemical engineers do? Broadly, chemical engineers conceive and design processes involved in chemical manufacturing. The main role of ...

Chemical Engineering

Using fundamental calculations of molecular interactions, they created a catalyst with 100% selectivity in producing propylene, a key precursor to plastics and fabric manufacturing. Researchers at ...

Scientists Can Now Design Single Atom Catalysts for Important Chemical Reactions

As part of their partnership to enable the circular economy of EV battery metals in Europe through closed-loop recycling, Solvay S.A. (Brussels, Belgium) ...

Solvay and Veolia announce key battery-recycling proof-of-concept

and the integration of these methods and concepts into the design of complex chemical manufacturing processes. Sustainable chemical manufacturing is supported by focusing on the development of ...

Process Systems, Reaction Engineering, and Molecular Thermodynamics

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

NASA Announces Nuclear Thermal Propulsion Reactor Concept Awards

Researchers have shown how artificial intelligence methods can be used to find new pharmaceutical applications for natural products.

Using AI To Assess Biological Activity of Natural Products

The grant enables West, who joined Rice in 2019 as a Cancer Prevention and Research Institute of Texas scholar, to follow two ongoing research paths: one, to continue developing unique hydrogen atom ...

NIH grant will help streamline chemical synthesis

Polymer-based coatings involving fabrications of nanostructured surfaces over conventional chemical-based antimicrobial agents ... a water contact angle can be used as a gauge to connect the process ...

Sustainable polymer nanocoatings: An innovative concept

Black Widow arrived this weekend, debuting both in theaters and on Disney+ Premiere Access, not only giving fans their first Marvel movie in two years but also finally giving Natasha Romanoff ...

Black Widow May Have Introduced the MCU's Most Powerful Weapon

design and manufacturing company headquartered in Spartanburg, SC, is looking to leverage SOCMA's commercial offerings and build deeper business relationships within the specialty chemical community.

SOCMA Welcomes 8 New Members to Specialty Chemical Community

British chemical giant Ineos is wading into the automotive industry to build an old-school, no-nonsense off-roader that picks up where the original Land Rover Defender left off in 2016. It unveiled ...

Ineos Grenadier's interior is an exercise in function-over-form design

This textbook puts design ... in chemical engineering. Employers and accreditations increasingly stress the importance of design in the engineering curriculum, and design-driven analysis will motivate ...

Chemical Engineering Design and Analysis

Next to sulfuric acid and ethylene, its production involves the third largest conversion process in the chemical industry ... ways making it difficult to design new catalysts for reactions ...