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Using deep learning for molecular design and a microfluidics platform for on-chip chemical synthesis, liver X receptor (LXR) agonists were generated from scratch. The computational pipeline was tuned ...

Combining generative artificial intelligence and on-chip synthesis for de novo drug design

Most high-value chemicals are currently produced using fossil fuels - industrial chemistry's use of petroleum accounts for 14% of all greenhouse gas emissions.- An exciting alternative is to engineer ...

University of Warwick: Efficiently “switching on” bacteria to produce high-value chemicals

The college has created a Department of Chemical, Environmental, and Materials Engineering to fulfill new aspirations and address challenging issues.

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College of Engineering launches innovative department
And that is exactly what Mark van Rijt and Bernette Oosterlaken (Chemical Engineering and Chemistry ... strength and considerable toughness. New synthesis strategy Mark van Rijt investigated ...

Designing natural-based synthetic materials
Many of these are petrochemical derivatives, and so their synthesis ... how to design a genetic switch in bacteria that removes the reverting "spring", so that adding only a pulse of a cheap natural ...

An Efficient Way To Turn Bacteria Into Chemical Factories
Study author Professor Hajime Ito is Vice Director of the Institute for Chemical Reaction Design and Discovery (WPI-ICReDD ... but their preparation often requires multiple chemical synthesis steps, ...

Turning generic polymers luminescent with sheer force
Giving a new spin to conventional chemical synthesis, a team of researchers ... signifying the method's potential for drug discovery and design. The findings, which were first published in the ...

NUS researchers develop a way to automate the production of pharmaceutical small molecules
Canadian-based compound specialist OTAVA (aka OTAVACHemicals) and German frontrunner cheminformatics firm BioSolveIT announce ...

CHEMriya - Billions of Molecules for R&D: OTAVA and BioSolveIT Team Up
The award celebrates the most exciting chemical science taking place today, and Mirkin earned the honor for his contributions to supramolecular chemistry and nanoscience.

Chad Mirkin Wins Prestigious Royal Society of Chemistry Prize
C DeepMatter Group PLC 17 June 2021 17 June 2021. DeepMatter

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collaborates with the Universities of Leeds and Sheffield.

DeepMatter Group PLC - Collaboration with the University of Leeds

Professors Junwang Tang, David Scanlon and Vijay Chudasama have been named the winners of three Royal Society of Chemistry prizes recognising excellence in the chemical sciences.

UCL scientists awarded prizes from the Royal Society of Chemistry Using mathematical models and the engineering principles of feedback control loops, commonly used in flight control systems, they discovered how to design ... the synthesis of almost any chemical ...

Efficiently 'switching on' bacteria to produce high-value chemicals "CHEMriya" — alluding to Mriya, the Ukrainian word for "dream" — is a chemical space comprising ... the invention of rapid and reliable on-demand synthesis marks a paradigm shift: Companies ...

CHEMriya - Billions of Molecules for R&D: OTAVA and BioSolveIT Team Up

11 Billion Novel Molecules: CHEMriya - OTAVA's On-Demand Chemical Space VAUGHAN ... Now, the invention of rapid and reliable on-demand synthesis marks a paradigm shift: Companies favor cherry ...

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