

## Chemical Engineering Journal

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### Chemical Engineering Journal

A new study by researchers from AMBER, the SFI Centre for Advanced Materials and Bioengineering Research, Trinity, and University College Dublin shows that tap water creates a natural protective ...

#### Tap Water Produces Natural Protective Shield Against Harmful Microplastics

Tap water produces a natural protective shield against harmful microplastics, which can help prevent household products such as plastic kettles from releasing them. That's according to a team of ...

#### Irish scientists discover tap water produces a protective shield against microplastics

Thirty years ago, archeologists excavated the tomb of an elite 40–50-year-old man from the Sicán culture of Peru, a society that predated the Incas. The man's seated, upside-down skeleton was painted ...

### **Red paint on 1,000-year-old gold mask from Peru contains human blood proteins**

Researchers at the Georgia Institute of Technology have developed a concept that would make Martian rocket fuel, on Mars, that could be used to launch future astronauts back to Earth.

### **Making Martian rocket biofuel on Mars**

Surface Water Quality Response to Land Use Land Cover Change in an Urbanizing Catchment: A Case of Upper Chongwe River Catchment, Zambia The Upper Chongwe River Catchment has recently been ...

### **Surface Water Quality Response to Land Use Land Cover Change in an Urbanizing Catchment: A Case of Upper Chongwe River Catchment, Zambia ()**

This study was published in the Chemical Engineering Journal on Sept. 9. Compared with the currently reported synthetic routes, the complexity, processing time and cost are reduced in this newly ...

### **Researchers propose one-step strategy to synthesize graphene-based composite phase change materials**

In early March 2020, just as the COVID-19 pandemic was forcing Duane Juang and other graduate student researchers at the University of Wisconsin-Madison to work remotely, the biomedical engineering Ph ...

### **Faster, simpler COVID test offers hope for future pandemics while serving present needs**

Dr Zhang Tianlong, a postdoc in the Department of Materials Science and Engineering (MSE), conducted the experiments. Their paper, to which President Way Kuo of CityU also contributed, was published ...

### **Innovative design of titanium alloy with supreme properties by 3D printing**

As much as a third of the world's population does not have access to clean drinking water, according to some estimates, and half of the population could live in water-stressed areas by 2025. Finding a ...

### **New Hydrogel Tablet Can Rapidly Purify Contaminated Water**

Researchers from the Harvard John A. Paulson School of Engineering and Applied Sciences developed an elastomer that is both stiff and tough.

### **Harvard researchers develop durable elastic polymers**

Advertisement According to a new study, synthetic chemicals known as phthalates, which are found in hundreds of consumer products such as food storage containers, shampoo, makeup, perfume, and ...

### **This Commonly-Used Chemical Causes A 100,000 Deaths In The U.S Every Year, New Report Finds**

Scientists design a novel thermoelectrochemical cell that efficiently converts waste heat into electricity for low-power devices.

### **From waste to resource: Turning exhaust heat into energy with unprecedented efficiency**

Arden L. Bement Jr. Award. Arvind Varma joined Purdue University in January 2004 as the R. Games

Slayter Disti ...

## **Arvind Varma - 2016 Arden L. Bement Jr. Award**

Bhopal: The 17 th annual session of Students' Chemical Engineering Congress began at a city hotel on Friday. The two-day event is being organised under joint aegis of Maulana Azad National Institute ...

## **Bhopal: Students' Chemical Engineering Congress begins sans hosts**

Schiffer, a leader in the field of theoretical chemistry, has been appointed the Sterling Professor of Chemistry.

## **Hammes-Schiffer named Sterling Professor of Chemistry**

Fifty years ago, it looked like that might change. In 1970, the percentage of women majoring in engineering was less than 1%. In 1979, that number was 9%. Many hoped women would continue to enter the ...

## **Trailblazing women who broke into engineering in the 1970s reflect on what's changed - and what hasn't**

In a study that used inorganic, physical and analytical chemistry to mimic respiratory droplets that can carry viruses, researchers demonstrated a mechanism that enables multiple mask materials to be ...

## **Stony Brook Study Examines Effectiveness Of Mask Materials**

Urine been described as the "liquid gold" of wastewater. It's been described as the "liquid gold" of wastewater. Every day, millions of litres of urine are flushed away but it is a ...

### **UCT student turns urine into fertiliser**

In a study that used inorganic, physical and analytical chemistry to mimic respiratory droplets that can carry viruses, researchers demonstrated a mechanism that enables multiple mask materials to be ...

### **To Mask or Not to Mask: Study Provides Mechanism to Test Materials**

Tap water produces a natural protective shield against harmful microplastics, which can help prevent household products such as plastic kettles from releasing them.

Copyright code: [d41d8cd98f00b204e9800998ecf8427e](https://doi.org/10.1016/j.ces.2023.109842).