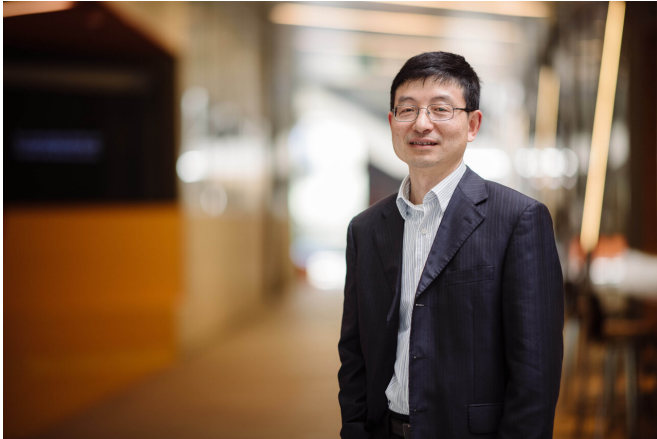


Breakthrough technology purifies water using the power of sunlight

10 August 2020



A research team, led by Australia's Monash University, has been able to transform brackish water and seawater into safe, clean drinking water in less than 30 minutes using metal-organic frameworks (MOFs) and sunlight. Credit: Monash University

A global research team has been able to transform brackish water and seawater into safe, clean drinking water in less than 30 minutes using metal-organic frameworks (MOFs) and sunlight.

In a discovery that could provide [potable water](#) for millions of people across the world, researchers were not only able to filter harmful particles from [water](#) and generate 139.5L of clean water per kilogram of MOF per day, but also perform this task in a more energy-efficient manner than current desalination practices.

The World Health Organization suggests good quality drinking water should have a total dissolved solid (TDS) of

APA citation: Breakthrough technology purifies water using the power of sunlight (2020, August 10) retrieved 15 May 2021 from <https://techxplore.com/news/2020-08-breakthrough-technology-purifies-power-sunlight.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.