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In addition to direct applications, MOFs have been used as unique precursors for the construction of inorganic functional ... derived from metal-organic frameworks"). Typically, the instruments that ...

What is a MOF (metal organic

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The details were published in the journal *Advanced Functional Materials* ... what is known as a metal-organic framework (MOF). MOFs form porous materials widely used in gas storage, catalysis ...

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Using starch and baking soda to harvest mechanical energy
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A tiny device incorporates a compound made from starch and baking soda to harvest energy from movement

post-graduate students and industrial researchers interested in area of metal-organic framework (MOF) and related materials. Given the recent

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Developments in this interdisciplinary field, including ...
MOFs for energy and the environment
Faraday Discussion
Adding absorbent nanoparticles to polymer membranes simplifies desalination. University of California,

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Berkeley, chemists have discovered a way to simplify the removal of toxic metals. like mercury ...

Nanoparticles Simplify Desalination:
Simultaneously Removing Toxic
Metals and Salt to Produce Clean
Water

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□ Metal-organic frameworks are very promising materials for gas storage and gas separation at a lower energy and economic cost,□ said Chen.

Michael Doyle, the Rita and John Feik Distinguished ...

UTSA chemist Banglin Chen receives

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prestigious Humboldt Research Award

The addition of a "guest" salt to a
metal organic framework (MOF)

compound results in retention of ...

MOFs are useful in applications such
as gas separators, catalysts, and
sensors. But, according to ...

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Making Carbon Do More

More specifically, our research program focuses primarily on the design, synthesis, characterization and application of functional metal-organic framework (MOF ... Reducing Greenhouse Gas Emissions ...

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Mario Wriedt

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Ashlee J. Howarth, PhD

The details were published in the journal *Advanced Functional Materials* ... link sodium ions together in what is known as a metal-organic framework (MOF). MOFs form porous materials widely used in gas ...

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This method, which the team used to obtain the structural information of metal-organic framework thin film with a degree of ... control is linked to controlling physical properties, the

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Reaching Crystal Structures of
Extremely Thin Films With FT-IR
metal organic frameworks, as well as
other hybrid materials for
heterogeneous and homogeneous
catalysis. Our goal is to use the power

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Jingyun Ye

By the end of the century, greenhouse gas emissions from air conditioning ... highly porous material called a metal organic framework. Nanoscale pores

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How to Prevent Air Conditioners from Heating the Planet

□ One class of technologies that has moved very quickly are sorbent-based technologies, these have in the past

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Storage solid amines, increasingly we are seeing things like metal organic frameworks ...

Heavy industry is key target for carbon capture technology, expert says
This method, which the team used to obtain the structural information of

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... controlling physical properties, the
functional improvement of porous
materials ...

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