

What fertilizer can replace solar power generation

By harnessing solar, wind, or biogas energy, the production of ammonia from renewable sources can drastically cut down on greenhouse gas emissions, positioning sustainable fertilizers as a viable solution ...

Ammonia has been widely used as a fertilizer for the last century. Now, using renewable energy and a new method for making ammonia, researchers and entrepreneurs believe "green" ammonia can ...

Researchers are designing catalysts for a solar-powered technology to produce nitrogen-based fertilizer precisely where it's needed, without excess application and runoff.

Producing the fertilizer that helps feed Earth's 7.8 billion people comes with an environmental cost--one that University of Michigan engineers are hoping to lessen with a new strategy that favors sunlight ...

In the context of the ongoing climate crisis, exploring sustainable alternatives that can reduce or even eradicate these emissions is imperative. This review examines the potential of ammonia as a future ...

Stanford engineering professors and students developed a clean fertilizer system by mimicking the method by which plants are naturally fertilized -- lightning.

As scientists search for cleaner methods of producing nitrogen (N) fertilizer, they increasingly look to replace the century-old method of treating natural gas with high-pressure steam to produce anhydrous ...

Can locally made green ammonia replace fertilizer from fossil fuels? Startup Talusag says modular plants that make ammonia from green hydrogen could cut carbon and costs from fertilizer supply ...

Here we evaluate the cost-competitiveness of producing low-carbon ammonia at the farm scale, from a solar agrivoltaic system, or using electricity from the grid, within a novel global...

Green urea fertilizer can facilitate photosynthesis and thus the photosynthetic conversion of atmospheric CO₂ to organic and fossil carbon. How green urea can be achieved has been discussed in ...

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