

# curcumin

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## Curcumin May Hold Answers for Electrode Stability for Batteries



This webpage QR code

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Curcumin as a Gamma-sulfur Substitute for Lithium Sulfur Battery Electrodes and Hydrogen Production. Curcumin as a novel reducing and stabilizing agent for the green synthesis of metallic nanoparticles. The effect of curcumin coated electrode on hydrogen production through water electrolysis. Increase of electron density also helps aluminum to reduce the oxygen attached on the material surface and free them. The curcumin coated electrode show the best performance of water electrolysis. All curcumin coated aluminum electrode are able to outperform uncoated aluminum electrode due to the presence of aromatic ring. Combine curcumin, the substance in turmeric, and gold nanoparticles to create an electrode that requires 100 times less energy to efficiently convert ethanol into electricity. Curcumin is used to decorate the gold nanoparticles to stabilize them, forming a porous network around the nanoparticles. Researchers deposited the curcumin gold nanoparticle on the surface of the electrode at a 100 times lower electric current than in previous studies.

PDF Version of the webpage (first pages)

## Curcumin as a Gamma-sulfur Substitute for Lithium Sulfur Battery Electrodes and Hydrogen Production

Curcumin reduces poisoning because of reaction intermediates.

See link below: Curcumin is used to decorate the gold nanoparticles to stabilize them, forming a porous network around the nanoparticles. Researchers deposited the curcumin gold nanoparticle on the surface of the electrode at a 100 times lower electric current than in previous studies. But the research could have broader implications than improved fuel cells. The electrode's unique properties could lend itself to future applications in sensors, supercapacitors and more, Ventrapragada said.

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## Curcumin as a Electrode Enhancer

Curcumin iron coating...

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