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# sulfur-deposition-carbon-nanofiber

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**Infinity  
Supercritical LLC**

**Sulfur Deposition on Carbon Nanofibers  
using Supercritical CO2**



**This webpage QR code**

## Structured Data

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**Sulfur Deposition on Carbon  
Nanofibers using Supercritical CO2**

**PDF Version of the webpage (first pages)**

<https://infinitysupercritical.com/sulfur-deposition-carbon-nanofiber.html>

## Lithium Sulfur Battery Research using Vapor Deposition of Sulfur on Carbon Nanofiber

Lithium Sulfur Battery Research using Vapor Deposition of Sulfur on Carbon Nanofiber: One interesting application may be for the research and production of lithium sulfur batteries. Using CO<sub>2</sub> may be one possible route to commercialization of production. (The team found that during the process of depositing sulfur on the carbon nanofiber surface, changing it from a gas to a solid, it crystallized in an unexpected way, forming a slight variation of the element, called monoclinic gamma-phase sulfur - [link below](#).)

The modular construction of the system allow easy integration for new technology developments, and multi-role add-ons. The heart of the system is the phase change liquid pumping techniques, flow bar, and tribo effect electrostatic precipitation collection system. Many of these deployed technologies were developed by Infinity since 2015 making this system the most advanced in the industry. More than 100 of these commercial systems have been built and out around the world.

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## Supercritical CO<sub>2</sub> Vapor Disposition

Coming soon...

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