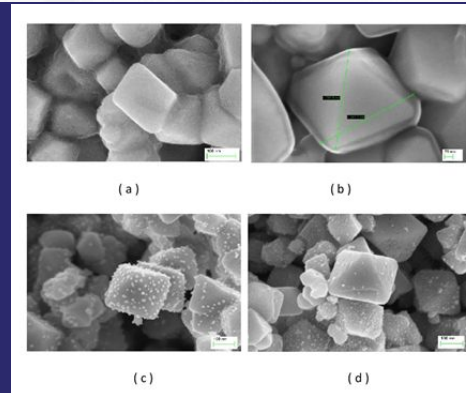


Granted IN328150

A method for preparing core-shell nanoparticles



NEED

Current methods for synthesizing core-shell nanoparticles are limited by solvent usage and post-synthesis isolation processes, restricting scalability and efficiency.

SOLUTION

The invention presents a method for synthesizing core-shell nanoparticles without or with very little solvent, overcoming previous limitations.

INNOVATION

The method involves mixing specific amounts of core material and shell-forming metal precursor material, grinding the mixture, and heating it to form core-shell nanoparticles, offering a solvent-free synthesis approach.

MARKET ANALYSIS

Market: Nanomaterials for Catalysis, Sensors, Energy Applications

CAGR: High growth, driven by advancements in material sciences

Potential Indian Clients: Research institutions, nanomaterial manufacturers, tech startups

WHY INVEST?

Nanotechnology

Core-shell nanoparticles

Solvent-free synthesis

Shell metal precursor



AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC CO4B
- Domain
Nanoscience, Nanotechnology for
Core-Shell Nanoparticle Synthesis

For more information, reach out to (contact person), (designation), (organization) at (email ID) and (phone number)



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