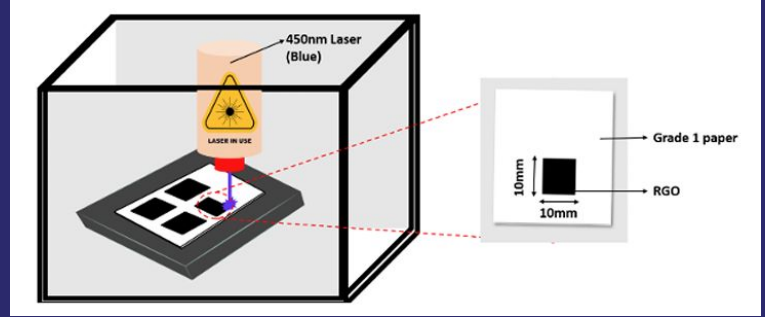


Granted IN446942

A method of fabricating reduced graphene oxide



NEED

The need for obtaining direct laser-induced reduced graphene oxide (rGO) without hazardous chemicals and high-temperature reduction methods.

SOLUTION

The invention provides a method for fabricating laser-induced rGO, addressing the need for a one-step, high-purity fabrication process.

INNOVATION

The method involves coating a substrate with a fire retardant liquid and irradiating it with electromagnetic radiation to obtain rGO.

MARKET ANALYSIS

Market: Electronics, energy storage, sensor technology, biomedical devices

CAGR: Approximately 35-40%

Potential Indian Clients: Electronics manufacturers, biomedical engineering firms, renewable energy companies, research institutions

WHY INVEST?

- Laser-induced graphene
- Reduced graphene oxide (rGO)
- Chemical exfoliation
- Laser irradiation



AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC B01D, B01J, C01B
- Domain
Advanced Materials and Nanotechnology



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