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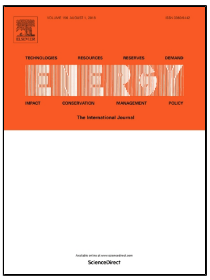

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HIGHLIGHTS

- Effects of carbon and metal nanoparticles as diesel additives were studied.
- Lack of dispersion stability of nanoparticles in diesel is a serious challenge.
- Improved engine performance and reduced emissions achieved with SDD and GDD fuels.
- SDD and GDD fuels perform better than diesel and CDD fuel.
- Single-walled carbon nanotubes is the most effective additive for diesel fuel.

Keywords:

Nanoparticle
Graphite oxide
Single-walled carbon nanotubes
Fuel additive
Diesel fuel
Diesel engine