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Title: Enhancement of Cobalt Catalyst Stability in Fischer-Tropsch Synthesis Using Graphene Nanosheets as Catalyst Support

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Highlights

Functionalized CNTs and graphene were used as Cobalt Fisher-Tropsch synthesis catalyst support .

Graphene increased the reduction degree, and dispersion of cobalt particles.

Graphene increased the FTS rate and %CO conversion significantly .

Catalysts supported on graphene showed better stability.

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