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Short Time Microwave/Seed-Assisted Synthesis and Physicochemical Characterization of Nanostructured MnAPSO-34 Catalyst Used in Methanol Conversion to Light Olefins

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Research Highlights

- One-pot hydrothermal synthesis of nanostructured MnAPSO-34 catalyst.
- Enhanced effect of microwave on hydrothermal synthesis of MnAPSO-34.
- Enhanced effect of seed addition on nucleation process of MnAPSO-34(1000W).
- Dependency of catalytic properties and performance on synthesis method.
- Enhanced catalytic performance by using microwave/seed in MTO process.

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