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Title: Ferrite catalysts derived from electroplating sludge for high-calorie synthetic natural gas production

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### Highlights

- Ferrite catalysts were synthesized from electroplating sludge by hydrothermal process.
- Electroplating sludge derived catalyst can produce higher heating value of SNG.
- Electroplating sludge derived catalyst resist thermal shock perfectly.
- Electroplating sludge derived catalyst was more stable and kept intact after reaction.

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