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Title: Low-cost iron-doped catalyst for phenol degradation by heterogeneous Fenton
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PII: S0304-3894(18)30529-6
DOI: <https://doi.org/10.1016/j.jhazmat.2018.07.018>
Reference: HAZMAT 19526

To appear in: *Journal of Hazardous Materials*

Received date: 18-5-2018
Revised date: 29-6-2018
Accepted date: 3-7-2018

Please cite this article as: { <https://doi.org/>

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Low-cost iron-doped catalyst for phenol degradation by heterogeneous Fenton

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Highlights:

- Iron-carbon catalysts were obtained by chemical and thermal treatment of textile sludge.
- Those catalysts were applied into CWPO of phenol.
- 98.2 % of phenol conversion and 68.2 % TOC removal were achieved.
- Textile sludge is suitable to be employed as an iron-carbon catalyst precursor.

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