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# Optimized CWPO phenol oxidation in CSTR reactor catalyzed by Al/Fe-PILC from concentrated precursors at circumneutral pH

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## Highlights

- -Al/Fe-PILC catalyzed CWPO degradation of phenol optimized in CSTR
- CWPO catalytic response of Al/Fe-PILC prepared from concentrated precursors
- CWPO of phenol optimized by central composite experimental design at circumneutral pH
- Multiresponse optimization by simultaneous pollutant's degradation and mineralization

## ABSTRACT

The catalytic wet hydrogen peroxide oxidation of phenol catalyzed by an Al/Fe-PILC clay catalyst has been optimized in CSTR reactor. In order to get it more cost-effective, the process was optimized by simultaneous maximization of pollutant's degradation and

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