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Quinone group enhances the degradation of levofloxacin by aqueous permanganate:
Kinetics and mechanism

Ke Xu, Huiyu Dong, Mengkai Li, Zhimin Qiang



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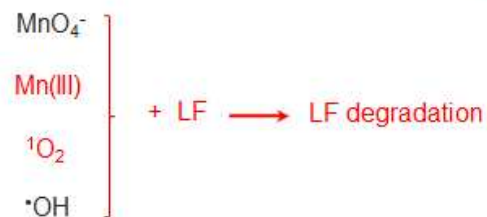
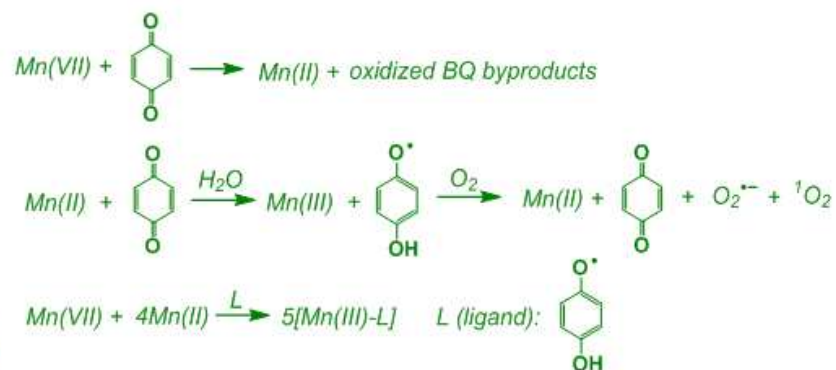
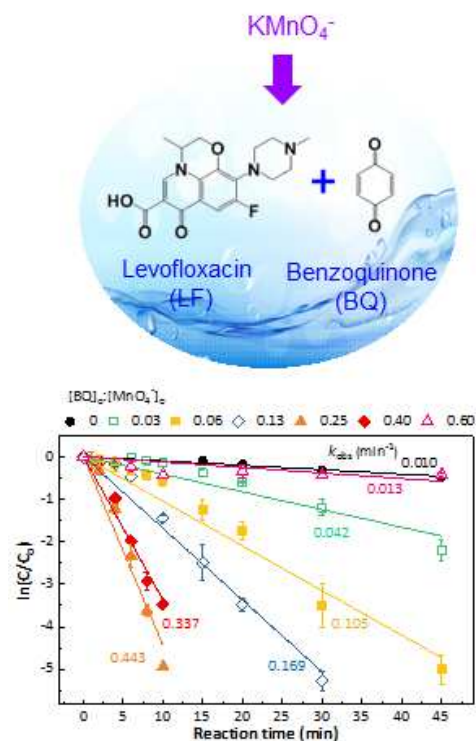
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Graphical Abstract



Quinone, an important group of humic acid, reacts with MnO_4^- to generate secondary oxidants (mainly Mn(III) and ${}^1\text{O}_2$) for accelerated LF degradation.

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