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Critical role of oxygen for rapid degradation of organic contaminants in permanganate/bisulfite process

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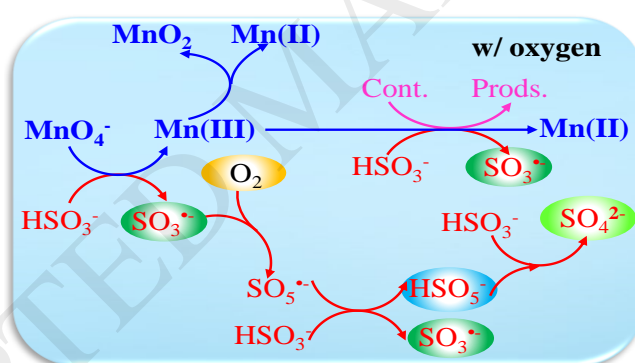
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Graphical abstract



Highlights

- Oxygen is essential for effective degrading organic contaminants in PM/BS process.
- HSO_3^- is initially oxidized to $\text{SO}_3^{\bullet-}$, which was adverse for $\text{Mn(III)}_{\text{aq}}$ utilization.
- $\text{SO}_3^{\bullet-}$ can be rapidly oxidized by oxygen to $\text{SO}_5^{\bullet-}$.

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