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Abstract

Sulfate radical ($\text{SO}_4^{\bullet-}$)-based advanced oxidation processes (SR-AOPs) are promising technologies for organic micropollutant removal. In this study, medium pressure (MP) UV was used to activate peroxymonosulfate (PMS) as an emerging SR-AOP for the degradation of ciprofloxacin (CIP), which is a typical fluoroquinolone. It was found that ~80% of CIP was removed at a UV dose of 200 mJ/cm^2 in the MPUV/PMS system ($3.02 \text{ }\mu\text{M}$ CIP, 0.2 mM PMS, $\text{pH} = 3.75$). Scavenging experiments indicated

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