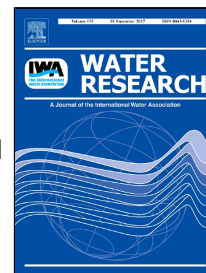


# Accepted Manuscript

The role of operating parameters and oxidative damage mechanisms of Advanced Chemical Oxidation Processes in the combat against antibiotic-resistant bacteria and resistance genes present in urban wastewater



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**HIGHLIGHTS**

1. The fate of ARB&ARGs in wastewater during advanced chemical oxidation is discussed
2. The main oxidative damage pathways in each process are presented
3. Process distinct oxidative damage mechanisms affect the fate of ARB&ARGs
4. The operating conditions of AOPs have a significant impact on the fate of ARB&ARGs
5. The genetic constituents of the microbiome behave differently in each AOP

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