Influence of pH and Target Amplicons on the Degradation **Kinetics of Antibiotic Resistance Genes (ARGs) during Hydroxyl and Sulphate Radicals AOPs**

Department of Civil and Environmental Engineering, University of North Carolina at Charlotte, USA

pandemic.





the effects of target qPCR Evaluate amplicon on ARGs degradation kinetics.

Examine how water characteristics affect SO_4 and HO ARGs degradation rates.

The longer the qPCR amplicon, the faster the degradation rate (Figure 3).

* ARG degradation by SO_4^- decreases as pH increases while HO^- shows optimum ARG degradation near-neutral pH (Figure 4).



Contact Information

Adeola J. Sorinolu PhD Candidate | Civil and Environmental Engineering

EPIC 3173, UNC Charlotte, NC, USA. 28223

Phone: (980) 888-3246 Email: asorinol@uncc.edu