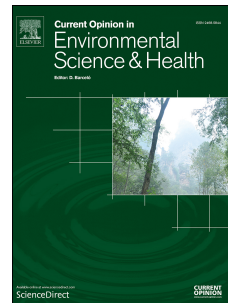


Accepted Manuscript

Spectroscopic Surrogates for Real Time Monitoring of Water Quality in Wastewater Treatment and Water Reuse

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Water Treatment

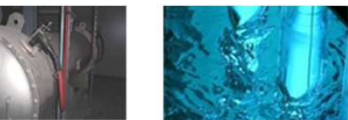
Biological treatment



GAC



O₃/AOPs



RO



Coagulation



Disinfection



Treatment Goals

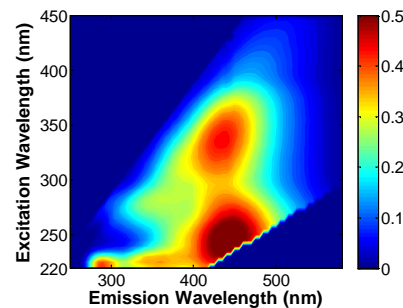
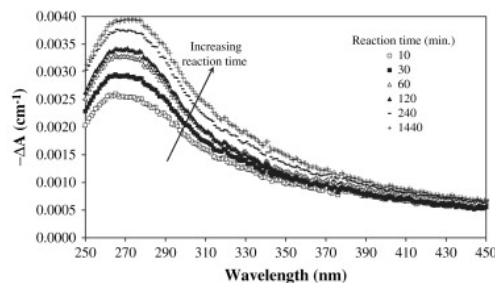
Removal of:

Dissolved organic matter
(COD, BOD₅, DOC);
Trace-level organic compounds;
Pathogens.

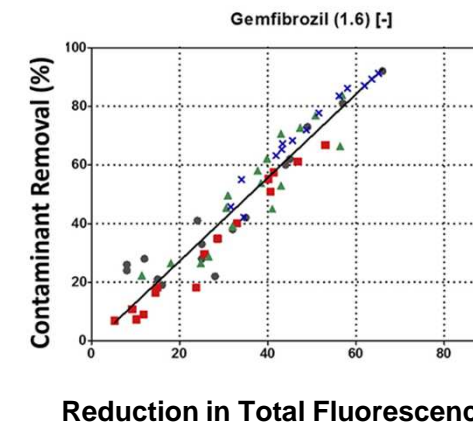
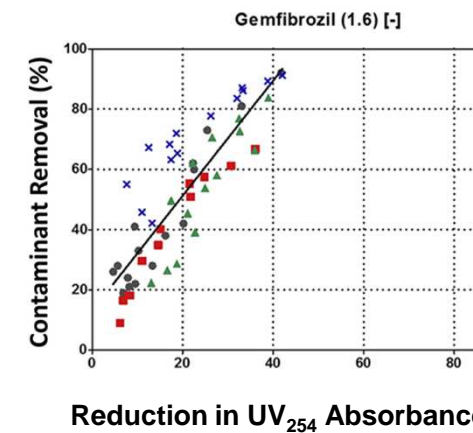
Control of:

Disinfection by-product formation;
Extracellular soluble microbial product

Spectroscopic measurements



On-line Monitoring



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