

Emerging Pollutants: Protecting Water Quality for the Health of People and the Environment

Photodegradation of diethyl phthalate, butylparaben, and bisphenol A using UV/H₂O₂ process: response surface analysis and toxicity evaluation

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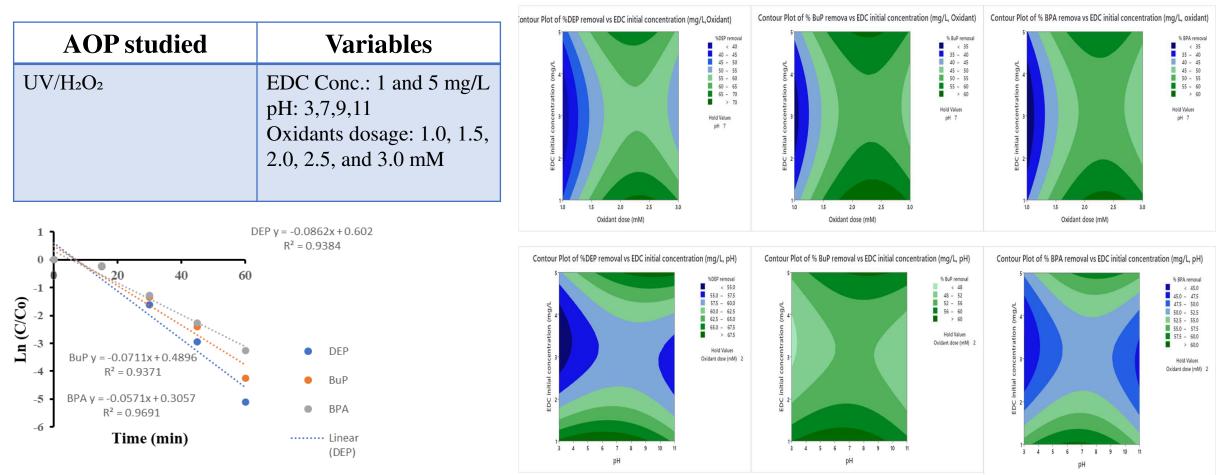
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Experimental result and its validation





Toxicity Evaluation

Studies performed on Daphnia magna

Cultured Daphnia magna

Acute studies: 48 hrs

Acute toxicity tests being performed as per ABNT. NBR 12713: Aquatic Ecotoxicology – Acute Toxicity – Method of Daphnia spp assay (Crustacea, Cladocera). Rio de Janeiro, 2016

 $EC_{50} = 67.61 \%$ at Conc. = 1 mg/L

EC₅₀ = 50.18 % at **Conc.** = 5 mg/L

