



Supplementary Materials

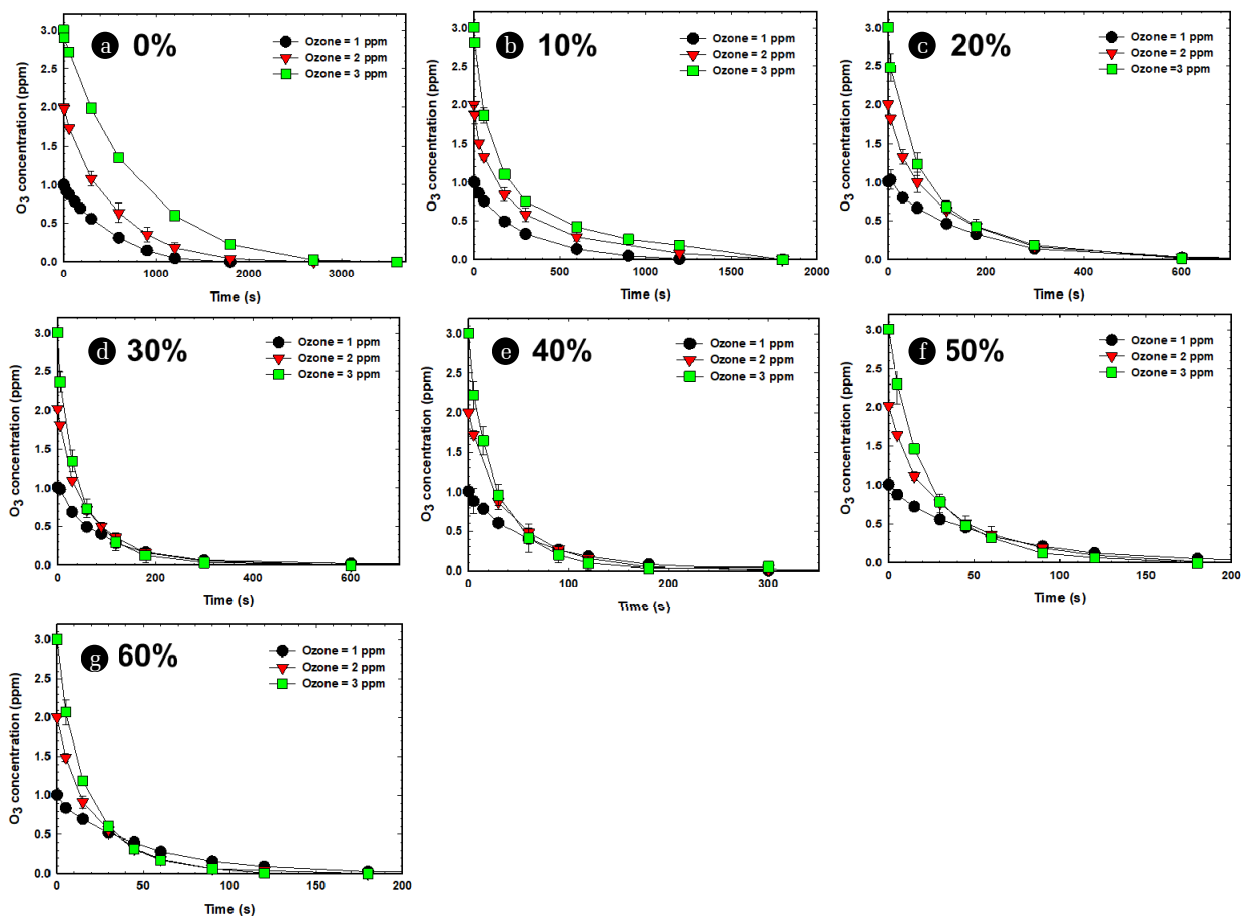


Fig. S1. Time-dependent profiles of O₃ concentration during (a) ozonation and peroxone processes with [H₂O₂]/[O₃] input ratio of (b) 0.1, (c) 0.2, (d) 0.3, (e) 0.4, (f) 0.5, or (g) 0.6 (DOC = 0.99 mg/L, [O₃]₀ = 1, 2, or 3 mg/L, [DEA]₀ = 1 μM).

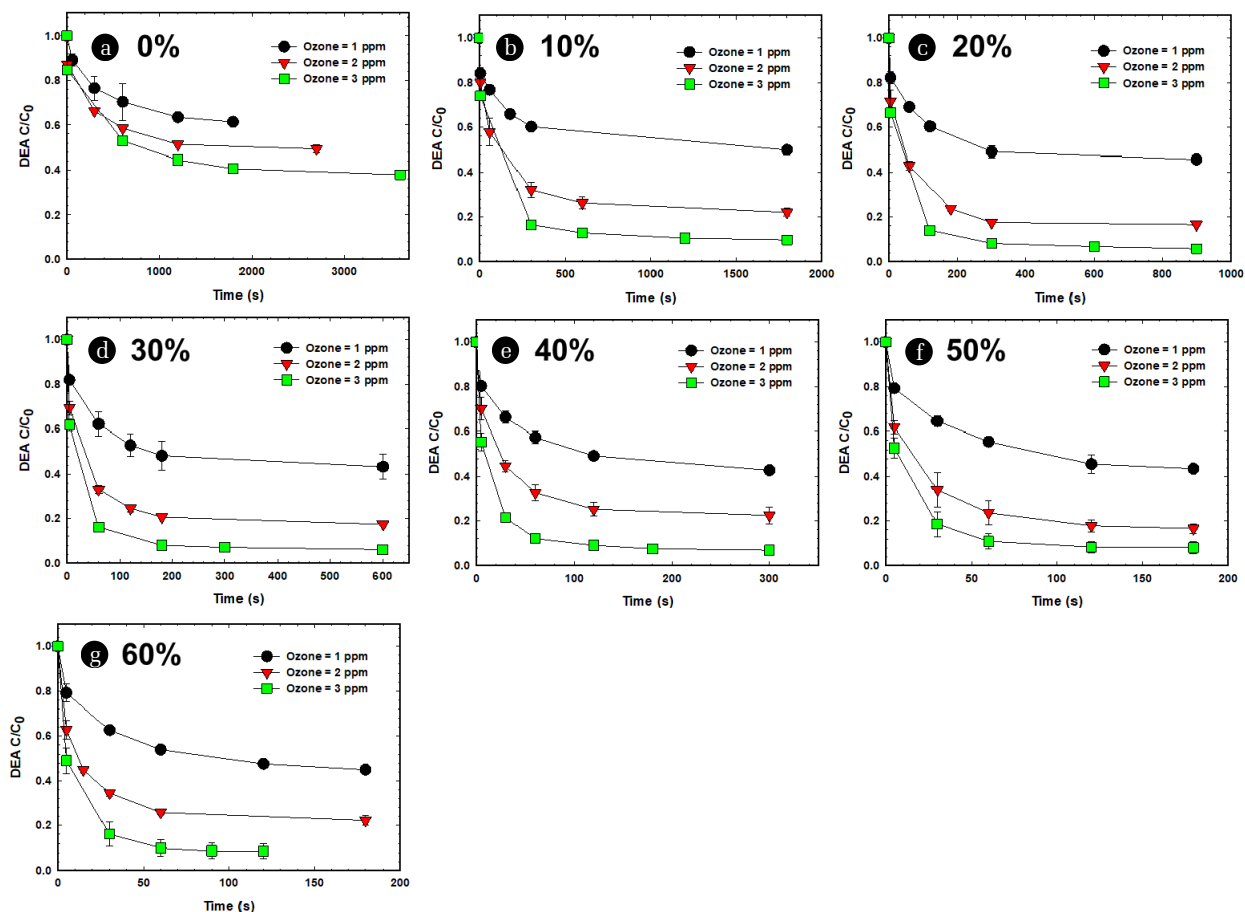


Fig. S2. Time-dependent profiles of DEA concentration during (a) ozonation and peroxone processes with $[H_2O_2]/[O_3]$ input ratio of (b) 0.1, (c) 0.2, (d) 0.3, (e) 0.4, (f) 0.5, or (g) 0.6 (DOC = 0.99 mg/L, $[O_3]_0 = 1, 2, \text{ or } 3$ mg/L, $[DEA]_0 = 1$ μ M).

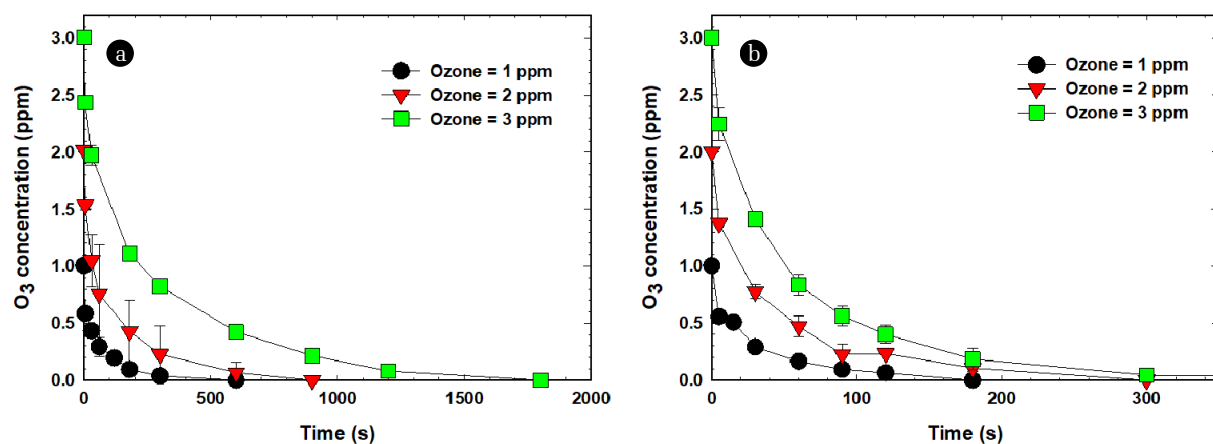


Fig. S3. Time-dependent profiles of O_3 concentration for (a) ozonation and (b) peroxone process with varying initial O_3 dose using relatively high DOC concentration water (DOC = 2.12 mg/L, $[O_3]_0 = 1, 2, \text{ or } 3$ mg/L, $[DEA]_0 = 1$ μ M, $[H_2O_2]_0/[O_3]_0 = 0.2$).

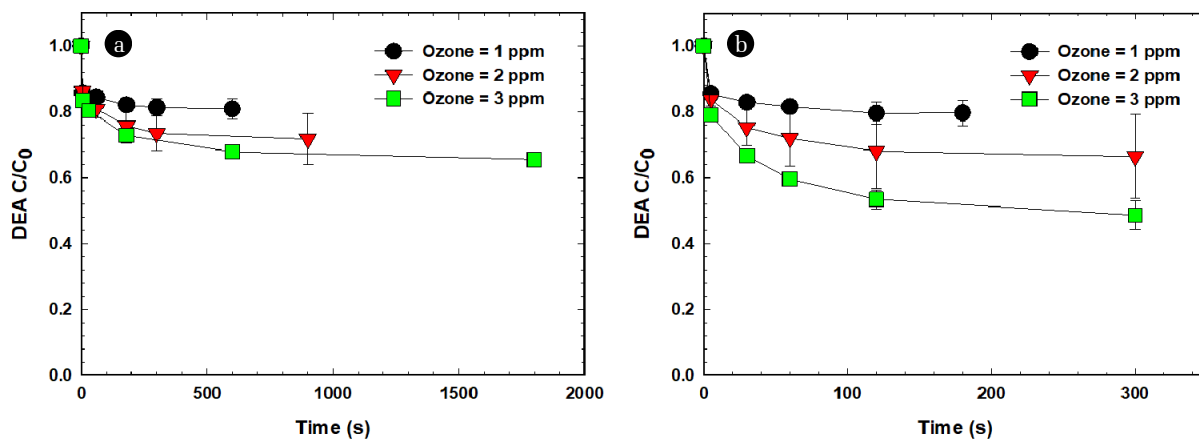


Fig. S4. Time-dependent profiles of DEA concentration for (a) ozonation and (b) peroxone process when varying initial O₃ dose using relatively high DOC concentration water (DOC = 2.12 mg/L, [O₃]₀ = 1, 2, or 3 mg/L, [DEA]₀ = 1 μM, [H₂O₂]₀/[O₃]₀ = 0.2).