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Formation of Undesired Oxidation Byproducts in Advanced Oxidation Processes (AOPs)

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editors

Advanced oxidation processes (AOPs) are viable approaches to degrade or detoxify contaminants resistant to conventional water treatment processes. They can be used alone or in combination with other treatment processes to address a wide spectrum of organic contaminants. The distinct feature of AOPs is the generation and participation of highly reactive oxidation species such as hydroxyl radicals and sulfate radicals. Generally, organic contaminants are mineralized to CO_2 and H_2O ultimately in AOPs. However, more and more studies have demonstrated that some undesired oxidation byproducts, either organic or inorganic, can be formed in AOPs. The formation of hazardous byproducts may depend on specific water matrices or oxidants applied. This Special Issue is dedicated to sharing recent findings on the formation and control of undesired oxidation byproducts in AOPs.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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