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ELIMINATION OF RECALCITRANT POLLUTANTS FROM AQUACULTURE EFFLUENT VIA PHOTOLYSIS AND PHOTOCATALYSIS TREATMENT PROCESSES: A REVIEW PAPER

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Abstract

Aquaculture sectors are facing huge development worldwide. Consequently, aquaculture effluents come from various sources and affect the environment when released without treatment. Pollution and industrial waste are endangering water resources, damaging, and destroying the ecosystems of the entire world. Therefore, it is necessary to develop treatments for their removal in wastewater. Among the different possibilities, photolysis and photocatalysis treatment processes under the advanced oxidation processes (AOPs) may be a sustainable option. Thus, this review aims at providing survey on photolysis and photocatalysis in view of their application for degradation of recalcitrant pollutants from aquaculture effluent. Degradation scheme, experimental factors and employed photocatalyst were discussed in this review.

Keywords: advanced oxidation processes, aquaculture effluent, photolysis, photocatalysis

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