

Review of Suitable Advanced Oxidation Processes for Degradation of Organic Compounds in Produced Water during Enhanced Oil Recovery

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Abstract : Produced water and its treatment and management are growing challenges in all producing regions. This water is generally considered as a nonrevenue product, but it can have significant value in enhanced oil recovery techniques if it meets the required quality standards. There is also an interest in the beneficial uses of produced water for agricultural and industrial applications. Advanced Oxidation Process is a chemical technology that has been growing recently in the wastewater treatment industry, and it is highly recommended for non-easily removal of organic compounds. The efficiency of AOPs is compound specific, therefore, the optimization of each process should be done based on different aspects.

Keywords : advanced oxidation process, photochemical processes, degradation, organic contaminants

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