



23 European Symposium on Computer Aided Process Engineering: Optimal recipe design for Paracetamol degradation by advanced oxidation processes (AOPs) in ... plant (Computer Aided Chemical Engineering)

M. Moreno-Benito, E. Yamal-Turbay, A. Espuña, M. Pérez-Moya, M. Graells

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This work addresses the optimization of the batch process recipe of an Advanced Oxidation Process (AOP) aimed at reducing paracetamol (PCT) and Total Organic Carbon (TOC) concentrations from a given effluent. The kinetic model by Cabrera Reina et al. (2012) is adapted to model the treatment, the problem is next formulated as a dynamic optimization problem and dosage of hydrogen peroxide is addressed by means of a piecewise constant strategy, which is compared with other dosage protocols. Results show that cost reductions can be obtained when applying the model-based optimization techniques proposed, and hint new opportunities for AOPs enhancement.

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