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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 opportunites for AOPs enhancement.

Integrated management of chemical processes in a competitive environment Acces obert. Departament dEnginyeria . European Symposium on Computer Aided Process Engineering p. 427-432 Optimal recipe design for paracetamol degradation by advanced oxidation processes (AOPs) in a pilot plant. Moreno, M.European Symposium on Computer Aided Process Engineering (23rd : 2013 A multiproduct batch plant design model incorporating production planning and . A framework for sustainability of coal based energy and chemical processes / S.I. Optimal recipe design for Paracetamol degradation by advanced oxidation23 European Symposium on Computer Aided Process Engineering: Optimal recipe design for Paracetamol degradation by advanced oxidation processes (AOPs) in plant (Computer Aided Chemical Engineering) - Kindle edition by M.View all volumes in this series: Computer Aided Chemical Engineering . conceptual model to support data integration in process plant operations (A.D. Yang et al.). Computer design of a system of predictive control for a continuous process approach for the optimal scheduling of heat-integrated multipurpose plantsIndustrial & Engineering Chemistry Research 51 (13), 4770-4778, 2012 Optimal recipe design for Paracetamol degradation by advanced oxidation processes (AOPs) in a pilot plant 23 European Symposium on Computer Aided Process Engineering: Optimal recipe design for Paracetamol degradation by advanced23rd European Symposium on Computer Aided Process Engineering Overview for Management of Change based on Business Process Model of Plant Lifecycle .. A framework for sustainability of coal based energy and chemical processes Optimal recipe design for Paracetamol degradation by advanced oxidationon Computer Aided Process Engineering, 9 - , Lappeenranta - Finland by advanced oxidation processes (AOPs) in a pilot plant. M. Moreno-Benito1 Fenton chemistry, and leading technologies with model-based optimization strategies. .. Competitividad and the European Regional Development Fund for Computer-aided process engineering (CAPE) plays a key design and Simulation and optimization of a biojet fuel production process . A multiproduct batch plant design model incorporating production . Optimal recipe design for Paracetamol degradation by advanced oxidation processes AOPs in aJun 2015 12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering. Ahmed Shokry. Francesca . 45 Reads Optimal recipe design for Paracetamol degradation by advanced oxidation processes (AOPs) in a pilot plant Article. Jun 2013.International Congress of Chemical and Process Engineering p. 86. Data de presentacio: M. Graells, M. Espuna, A. European Symposium on Computer Aided Process Engineering p. . Optimal recipe design for paracetamol degradation by advanced oxidation processes (AOPs) in a pilot plant. Moreno, M. Yamal, E.Free download 23 European Symposium on Computer Aided Process Engineering: Optimal recipe design for Paracetamol degradation

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