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Study and modelling of heterogeneous catalytic reactions. application to uranium dioxide dissolution.

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► To cite this version:

P. Marc, F. Charlier, J. Godard, A. Magnaldo, E. Schaer. Study and modelling of heterogeneous catalytic reactions. application to uranium dioxide dissolution.. ECCE 10 + ECAB 3 + EPIC 5 - 10th European Congress of Chemical Engineering and 3rd European Congress of Applied Biotechnology and 5th European Process Intensification Conferences, Sep 2015, Nice, France. cea-02489516

HAL Id: cea-02489516

<https://cea.hal.science/cea-02489516>

Submitted on 24 Feb 2020

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Highlight 2: A strong link exists among development of cracks, bubbling and overall dissolution rates.

Highlight 3: A model for dissolution is proposed to evaluate the influence of reaction parameters.

Reference 1 :: P. Marc, 2014. " étude de réactions hétérogènes autocatalytiques. Application à la dissolution du dioxyde d'uranium". Thèse de l'université de lorraine.

Keywords: Chemical kinetics, Hydrodynamics, Mass transfer, Modelling, Multiphase