

Accepted Manuscript

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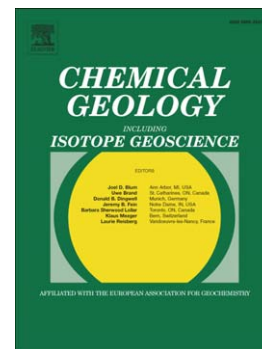
PII: S0009-2541(16)30515-0
DOI: doi:[10.1016/j.chemgeo.2016.09.038](https://doi.org/10.1016/j.chemgeo.2016.09.038)
Reference: CHEMGE 18092

To appear in: *Chemical Geology*

Received date: 8 July 2016
Revised date: 22 September 2016
Accepted date: 27 September 2016

Please cite this article as: Pollet-Villard, Marion, Daval, Damien, Fritz, Bertrand, Knauss, Kevin G., Schäfer, Gerhard, Ackerer, Philippe, Influence of etch pit development on the surface area and dissolution kinetics of the orthoclase (001) surface, *Chemical Geology* (2016), doi:[10.1016/j.chemgeo.2016.09.038](https://doi.org/10.1016/j.chemgeo.2016.09.038)

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Influence of etch pit development on the surface area and dissolution kinetics of the orthoclase (001) surface

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Keywords: reactive surface area; dissolution kinetics; etch pits; orthoclase (001) face; hydrothermal alteration

Highlights:

- Etch pits are responsible for an increase of 20% of the surface area
- Despite etch pit formation, the total surface area reaches a steady state
- Pit walls are more reactive than the (001) face
- Defect parameters affect the dissolution rate by less than an order of magnitude

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