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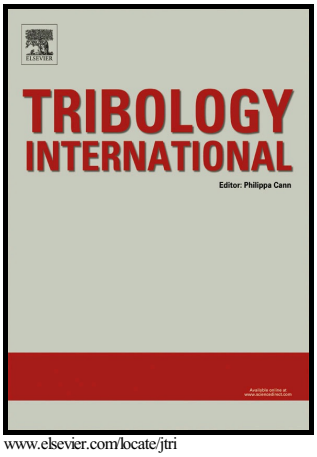


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# Dynamic inter-particle friction of crushed limestone surfaces

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## ABSTRACT

The frictional characteristics of granular materials are of major interest in research and practice in geotechnical and petroleum engineering. In this study, micromechanical sliding experiments were conducted at the contacts of crushed limestone grains in a range of vertical forces from 0.6 to 5.0 N capturing the frictional response during a steady state sliding. This was obtained after the completion of small shearing paths of about 100 to 300 microns. The results indicated that the dynamic coefficient of friction was slightly lower than reported values in the literature on quartz grain contacts. These differences might be, partly, due to the