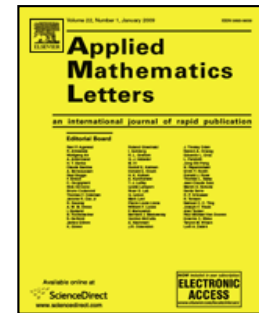




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# Existence of solutions for irregular boundary value problems of nonlinear fractional differential equations

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### ABSTRACT

In this paper, we present some new existence and uniqueness results for nonlinear fractional differential equations of order  $q \in (1, 2]$  with irregular boundary conditions in a Banach space. Our results are based on the contraction mapping principle and Krasnosel'skii's fixed point theorem.

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