#### RESEARCH

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# Solvability of boundary value problems of nonlinear fractional differential equations

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#### Abstract

In this paper, we study the existence of multiple positive solutions for the nonlinear fractional differential equation boundary value problem  $D_{c}^{\sigma}$ , u(t)+f(t,u(t))=0, 0 < t < 1, u(0)=u(1)=u'(0)=0, where  $2 < \alpha \le 3$  is a real number,  $D_{c}^{\sigma}$ , is the Riemann-Liouville fractional derivative. By the properties of the Green's function, the lower and upper solution method and the Leggett-Williams fixed point theorem, some new existence criteria are established. As applications, examples are presented to illustrate the main results.

MSC: 34A08; 34B18

**Keywords:** fractional differential equation; boundary value problem; positive solution; fractional Green's function; fixed point theorem; lower and upper solution method

#### 1 Introduction

Fractional differential equations have been of great interest. It is caused both by the intensive development of the theory of fractional calculus itself and by the applications. Apart from diverse areas of mathematics, fractional differential equations arise in rheology, dynamical processes in self-similar and porous structures, fluid flows, electrical
networks, viscoelasticity, chemical physics, and many other branches of science; see [1–
5]. Recently, there have appeared some papers dealing with the existence of solutions of
fractional differential equations by the use of techniques of nonlinear analysis (fixed point
theorems, Leray-Schauder theory, Adomian decomposition method, etc.); see [6–9]. Especially, boundary value problems for fractional differential equations have attracted considerable attention; see [10–31]. As is well known, the aim of finding solutions to boundary
value problems is of main importance in various fields of applied mathematics. Recently,
there seems to be a new interest in the study of the boundary value problems for fractional
differential equations.

Bai and Lū [28] studied the following two-point boundary value problem of fractional differential equations:

$$D_0^{\alpha}$$
,  $u(t) * f(t, u(t)) = 0$ ,  $0 < t < 1$ ,  
 $u(0) = u(1) = 0$ ,

where  $1 < \sigma \le 2$  is a real number and  $D_0^a$ , is the standard Riemann-Liouville fractional derivative. They obtained the existence of positive solutions by means of the Krasnosel'skii fixed point theorem and the Leggett-Williams fixed point theorem.



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