

Special Issue

New Perspectives and Applications of Fractional Order Modeling in Energy Systems

Message from the Guest Editor

The energy sector faces unprecedented challenges in terms of sustainability, efficiency, the integration of renewable sources, and smart resource management. These challenges require new mathematical frameworks capable of capturing the memory, nonlocality, and heterogeneity effects that characterize modern energy systems. In this context, fractional order differential equations have established themselves as a powerful tool for the modeling, simulation, and control of complex energy processes. This Special Issue of *Fractal and Fractional* focuses on the intersection of fractional calculus and energy engineering sciences.

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About the Journal

Message from the Editor-in-Chief

Fractal and Fractional (*Fractal Fract.*) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

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