

Special Issue

Fractals in Biophysics and Their Applications

Message from the Guest Editor

Welcome to the thrilling world of "Biophysics and Fractal"—an extraordinary Special Issue that delves into the mesmerizing intersection of two fascinating fields! In this Special Issue, we will explore the hidden fractal patterns within biological systems to deciphering the biophysical principles underlying the emergence of fractal structures, contributors have the opportunity to shed light on the dynamic interplay between nature's complexity and its underlying mathematical elegance; investigate the application of fractals in biophysical modeling, such as utilizing fractal dimension analysis for characterizing biomolecules' spatial organization. Moreover, we are particularly interested in the innovative fusion of biophysics and fractals in emerging fields. Be it the integration of fractal-based algorithms for deciphering the human brain's intricate networks or exploring the role of fractal geometry in understanding and designing novel drug delivery systems. Join us on this extraordinary expedition into the captivating realm of "Biophysics and Fractal" !

Guest Editor

Dr. Anirban Bandyopadhyay

International Center for Materials and Nanoarchitectonics (MANA),
Research Center for Advanced Measurement and Characterization
(RCAMC), National Institute for Materials Science (NIMS), 1-2-1 Sengen,
Main Bldg, Tsukuba 815, Japan

Deadline for manuscript submissions

closed (30 November 2025)



Fractal and Fractional

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.0



mdpi.com/si/179647

Fractal and Fractional
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fractalfract@mdpi.com

[mdpi.com/journal/
fractalfract](https://mdpi.com/journal/fractalfract)





Fractal and Fractional

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.0



[mdpi.com/journal/
fractalfract](https://mdpi.com/journal/fractalfract)



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.

Editor-in-Chief

Prof. Dr. Carlo Cattani

Engineering School (DEIM), University of Tuscia, Largo dell'Università,
01100 Viterbo, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q1 (Mathematics, Interdisciplinary Applications) /
CiteScore - Q1 (Analysis)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).