Special Issue

Fractures and Fragments by Fractal Analysis

Message from the Guest Editors

This special issue would like to invite any submission related to fractures and fragments by fractal analysis in tunnelling, mining, resources and civil engineering. Particularly, the following topics are highly encouraged:

- Fractal analysis of fracture pattern and fragmentation characteristics of brittle/dynamic failure
- Analytical tools application for determination and observation of fractal such as DIC (digital image correlation), AE (acoustic emission) and CT (computed tomography)
- Fundamental theory to explain the fractal behaviour of brittle materials from mathematical and physical aspects such as fractal of micro structure
- Application of fractal analysis to predict the fracture evolution and fragments characteristics of engineering dynamic hazards

Guest Editors

Dr. Xiaohan Yang

Dr. Lihai Tan

Dr. Xin Cai

Deadline for manuscript submissions

closed (22 May 2022)



an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 6.0



mdpi.com/si/101010

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

mdpi.com/journal/ fractalfract



Fractal and Fractional

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 6.0





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 peerreviewed, 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 19.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).