

Special Issue

Fractal Mechanics of Engineering Materials

Message from the Guest Editors

Numerous engineering materials are inhomogeneous and inherit complex structures that exhibit statistical scale invariance over several length scales. These materials and structures include metals and alloys, geomaterials (rocks and aggregates), nanocomposites, engineered coatings and interfaces. The straining of these materials is quantified with appropriate theories within the domains of continuum, fracture, and damage mechanics. The fractality of geometrical features such as microstructures, granular aggregates, surface morphological irregularities and fatigue cracks can be quantified in terms of their fractal dimensions. The fractal analysis of these self-similar and multi-scale features aims to correlate the fractal geometry with meaningful mechanical quantities at micro-to-macro scale. This Special Issue on "Fractal Mechanics of Engineering Materials" aims to present the state-of-the-art research methodologies and outcomes in fractal approaches for engineering materials. Therefore, we invite authors to submit quality review papers, research articles, and technical notes addressing the fractal aspects of engineering materials and related issues.

Guest Editors

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Deadline for manuscript submissions

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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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