



Fractal Mechanics of Engineering Materials, 2nd Edition

Guest Editors:

Prof. Dr. Mohd Nasir Tamin

Faculty of Mechanical
Engineering, Universiti Teknologi
Malaysia, Johor Bahru 81310,
Malaysia

Dr. Seyed R. Koloor

Faculty of Mechanical
Engineering, Universität der
Bundeswehr München, Munich,
Germany

Deadline for manuscript
submissions:

15 May 2025

Message from the Guest Editors

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. Research topics are described by, but not limited to, the following keywords:

- Materials: metals and alloys, geomaterials (rocks, aggregates), polymers, composites, nanomaterials, ceramics, functionally graded materials (FGMs), interfaces, modified surfaces, etc
- Continuum mechanics
- Fracture mechanics: LEFM, EPFM
- Fatigue and fatigue crack growth
- Damage mechanics
- Experimental mechanics: DIC, SEM, optical microscopy
- Fractal analysis: theoretical development, image analysis, algorithms
- Fractal dimension
- Fractional fractal dimension
- Computational method: FEA, BEM, numerical prediction

