

Special Issue

Viscoelastic Solids: Mechanical Behaviour, Contact Mechanics, Fracture and Wear

Message from the Guest Editors

Assessing the mechanics and the physics of viscoelastic solids is a crucial issue in current engineering research and in applied science. Indeed, a variety of physical phenomena, including inter alia friction, adhesion, wear, are deeply influenced by viscoelasticity and determine in turn the behavior and the efficiency of a number of engineering systems, like adhesives, protective coatings, tires, seals, brakes, and clutches. We invite authors to submit original research and review articles, which stimulate the continuing efforts to understand and improve the knowledge in these fields. Potential topics include, but are not limited to:

- rheology and mechanical behavior of viscoelastic solids
- fracture, fatigue and wear of viscoelastic materials
- contact, lubrication and friction of viscoelastic randomly rough and micro- and nano-structured surfaces
- contact failures of biomimetic materials and surfaces
- adhesive contacts
- advanced numerical techniques to study contact and friction of randomly rough surfaces

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2017)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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