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Adhesion, Friction and Lubrication of Viscoelastic Materials

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closed (31 July 2019)

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue is to foster the growth of new ideas in the field by discussing the most recent advances in adhesion, friction and lubrication of viscoelastic materials.

We are particularly interested in theoretical and experimental contributions focusing on fundamental physics, experimental investigations and validations of theories and models of viscoelastic solids on multiple length scales from macro to nano work, including also biomechanical applications and bio-inspired solutions, as well as bio- systems. Potential topics include, but are not limited to:

- adhesion and adhesion failures of viscoelastic materials
- contact, lubrication and friction of viscoelastic materials with an emphasis on the contact between rough or structured surfaces
- advanced numerical techniques to study contact, friction and lubrication of randomly rough viscoelastic interfaces

Prof. Giuseppe Carbone

Prof. Francesco Bottiglione

Guest Editors

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