Special Issue

Evaluation of the Elastic and Viscoelastic Properties of Soft Materials via Sensing Technology

Message from the Guest Editors

Identification of the viscoelastic properties of materials, including soft materials, is needed both in the laboratory and in the clinic. Various techniques, such as the indentation method, atomic force microscopy, and rheometry, are used for the identification of the elastic or viscoelastic properties of soft materials in the laboratory. Other techniques, such as magnetic resonance elastography and ultrasound elastography, are used for the in vivo evaluation of the mechanical properties of tissues. It is much more important today to develop techniques and standards to accurately determine the elastic and/or viscoelastic properties of materials. We invite researchers to submit their original research and review articles on the elastic and/or viscoelastic property evaluation of soft materials via different sensing technologies. Manuscripts on mathematical modelling and/or experimental research (in vitro, ex vivo, and in vivo) are welcome, as well as research and review articles assessing the uncertainty of the measured mechanical properties of soft materials.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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