Special Issue

Infrared Spectroscopy for Biological Systems under Physical, Chemical and Biological Processes

Message from the Guest Editor

Spectroscopic techniques are powerful tools for experimental investigation in the infrared (IR) region of organic systems of biophysical interest, such as biopolymers, proteins, cells, organs, and tissues during several processes, as these techniques can highlight, for instance, effects due to changes in temperature, pressure, oxidation, acidification, or exposure to microwaves, UV radiation, etc. Furthermore, different spectroscopic techniques can couple with different system properties, to explore different spatial scales, to probe different system relaxation times, to highlight specific systems contributions thanks to chemical labeling, to follow the system kinetics, often guaranteeing great accuracy in measurements. In many cases, the joint employment of different spectroscopic techniques can furnish a deep understanding of complex physical-chemical mechanisms interesting organic systems. For these reasons, spectroscopic techniques are widely employed in biomedicine to detect changes in molecular compositions and structures in organic tissues, for the diagnosis and the monitoring of various diseases. For more information, please visit: mdpi.com/si/54351

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