

Special Issue

Advanced Spectroscopic and Calorimetric Techniques for Pharmaceutical Analysis

Message from the Guest Editor

The interactions between pharmaceutical compounds and proteins are foundational to biological sciences. The study of drug–protein interactions, particularly involving serum proteins, is among the most exciting areas in contemporary science, employing various spectroscopic and calorimetric techniques to analyze their structure–function relationships due to the complex physicochemical properties of the substances involved. Understanding these interactions is essential for developing a fundamental knowledge base related to molecular-level behaviours.

The Special Issue will include, but not be limited to, the following topics:

- Application of CD, UV-Vis, NMR, and Fluorescence Spectroscopy in studying drug–protein interactions;
- Thermodynamic analysis of drug binding using ITC and DSC;
- Structural and functional characterization of pharmaceutical compounds;
- Integration of spectroscopic and calorimetric data for a comprehensive analysis of ligand–protein interactions;
- Case studies demonstrating practical applications in drug discovery and development.

Guest Editor

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Editor-in-Chief

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