

Tentative Outline

Special Thematic Issue for the journal *Current Topics in Medicinal Chemistry*

Title of the Thematic Issue: Molecular spectroscopy supported by novel instrumentation and methods for medicine analysis and interpretation

Guest Editor: Yue Huang

- **Scope of the Thematic Issue:**

As a powerful tool for medicine quality evaluation, molecular spectroscopic studies have received increasing attention due to the ultimate convenience experienced by analysts. Molecular spectroscopy detection on medicine is associated with the multi-perspective advantages including non-destruction, free-reagent, rapidness and on-site possibilities. Researches or methodologies for these above explorations will definitely improve the evaluation standard of medicine quality in industry. Thus, this special issue focuses on medicine applications where the study of the molecular spectroscopy plays a significant role. We encourage review submissions on innovative approaches or assessments in relation to the advanced utilization of various molecular vibrational spectroscopies. As well, we welcome comprehensive reviews on medicine quality involving new instrumental development, mobility or miniature realization, high-throughput selection, statistical modelling, spectral signal processing, pattern recognition, 5G data transmission, detection enhancement, chemometrics and hyperdata mining, etc.

Keywords: Molecular spectroscopy; Medicine; Miniaturized spectrometers; Chemometrics; Non-destruction; Pattern recognition

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Molecular vibration-based spectral analysis for monitoring medicine quality.
- Basic principles of the related technique, instrumentation and methods.
- Chemometrics aided approach enhances ability of medicine detection.
- Focus on novel approaches and instrumentation.

Schedule:

- ✧ Thematic issue submission deadline: Apr 30, 2023

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