

Tentative Outline

Special Thematic Issue for Combinatorial Chemistry & High Throughput Screening

Raman, Infrared and NMR Spectroscopy: Advances in Structural, Conformational and Environmental Analysis

Guest Editors: Tarek A. Mohamed

Aims & Scope:

Fourier Transform Infrared, Attenuated Infrared, Raman and NMR spectroscopic tools are potentially fruitful and considered complementary which have been used for tracing conformational stabilities and tautomer interchanges in addition to chemical/structural analysis. All are nondestructive techniques for multi component sample analysis with good sensitivity and can be used for monitoring and control of industrial processes and environmental analysis. Since 1990s, computational chemistry/molecular modeling provide strong support for structural elucidations/characterizations and spectral interpretations.

We are interested in original research manuscripts/review articles related to the fields of spectral and chemical analysis and separations including molecular docking and computational chemistry.

Keywords: Raman, environmental analysis, molecular docking, NMR Spectroscopy.

Subtopics:

Potential topics include, but are not limited to:

1. Spectroscopic characterization of organic, polymeric, complexes, liquid crystals, composites and nanostructured materials.
2. Conformational, tautomer's characterizations using FTIR, Raman and NMR spectroscopy combined with Quantum mechanical calculations whenever appropriate.
3. Molecular Modeling/docking of molecules of industrial and biological applications.
4. Water, water waste and environmental analysis.

Schedule:

- ☰ Manuscript submission deadline: 30th August 2019
- ☰ Peer Review Due: 30th September 2019
- ☰ Revision Due: 30th October 2019
- ☰ Announcement of acceptance by the Guest Editors: 30th December 2019
- ☰ Final manuscripts due: 30th January 2020

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