

## Book and Book Chapters

### **Title of the Book:**

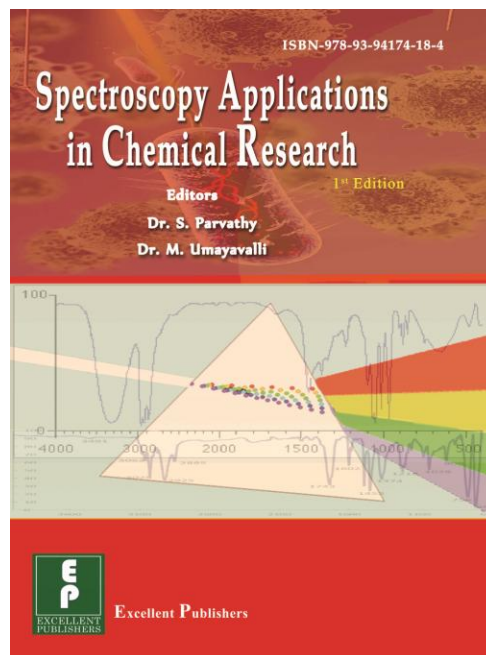
### **Spectroscopy Applications in Chemical Research**

**ISBN: 978-93-94174-18-4**

**Book code: EP-2023-5**

### **Editors:**

**Dr. S. Parvathy  
Dr. M. Umayavalli**



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## SCOPE OF THE BOOK

Following key topics will be covered in the book, **but not limited to:**

1. Ultraviolet-visible (UV-Vis) spectroscopy for determination of metal ion concentration
2. UV-Vis spectroscopy for monitoring the kinetics of chemical reactions
3. UV-Vis spectroscopy for determining the concentration and purity of substances in solution
4. UV-Vis spectroscopy for determining the extinction coefficient and molar absorptivity of compounds
5. Infrared spectroscopy for the analysis of organic compounds
6. Fourier Transform Infrared (FTIR) spectroscopy for material analysis
7. IR spectroscopy for identifying functional groups in organic compounds
8. IR spectroscopy for studying solid-state materials
9. IR spectroscopy for determining the thermal stability of materials
10. IR spectroscopy for investigating the vibrational modes in biological systems

11. Nuclear magnetic resonance (NMR) spectroscopy for structural analysis
12. NMR spectroscopy for characterizing intermolecular interactions
13. NMR spectroscopy for determining the stereochemistry of molecules
14. NMR spectroscopy for investigating dynamic processes in complex molecules
15. NMR spectroscopy for determining the relaxation times in magnetic systems
16. Mass spectrometry for determining molecular weight and structure
17. Mass spectrometry for identifying and quantifying trace contaminants
18. Mass spectrometry for analyzing the composition of complex mixtures
19. Mass spectrometry for protein and peptide analysis
20. Mass spectrometry for quantifying peptide and protein modification
21. Raman spectroscopy in chemical analysis
22. Resonance Raman spectroscopy for investigating vibrational modes
23. Surface-enhanced Raman spectroscopy (SERS) for trace analysis.
24. Surface-enhanced Raman spectroscopy (SERS) for sensing applications
25. X-ray crystallography for determining protein structures
26. Fluorescence spectroscopy for biological and environmental analysis
27. Time-resolved fluorescence spectroscopy for studying fast chemical reactions
28. X-ray Absorption Spectroscopy (XAS) for characterizing local electronic structure
29. Circular Dichroism spectroscopy for studying molecular chirality
30. Two-dimensional Infrared (2D IR) spectroscopy for investigating complex systems
31. Absorption spectroscopy for monitoring atmospheric pollutants.
32. Photoacoustic spectroscopy for non-invasive sensing.

# BOOK CHAPTER PUBLICATION WITH ISBN AND DOI NUMBER

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  - ◆ Abstract and 5-6 Keywords
  - ◆ Introduction
  - ◆ Chapter Content with Sections and Sub-sections
  - ◆ Tables and Figures
  - ◆ References

### **2. Plagiarism**

Plagiarism should be below 25%.

### **3. Publication Fee**

Publication fee is Rs.1,500/- per chapter for Indian Authors, and \$50 USD abroad authors.

### **4. Deadline for Submission: 20-03-2023**

## 5. References:

In the text, a reference identified by means of an author's name should be followed by the date of the reference in parentheses. Eg.: (Prakash and Karmegam, 2010). When there are more than two authors, only the first author's name should be mentioned, followed by 'et al.' Eg.: (Manikandan et al., 2021). In the event that an author cited has had two or more works published during the same year, the reference, both in the text and in the reference list, should be identified by a lower case letter like 'a' and 'b' after the date to distinguish the works Eg.: (Prakash and Karmegam, 2010a, 2010b).

### Examples

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#### For Journals

- Manikandan, S., Karmegam, N., Subbaiya, R., Karthiga Devi, G., Arulvel, R., Ravindran, B., Awasthi, M. K., 2021. Emerging nano-structured innovative materials as adsorbents in wastewater treatment. *Bioresour. Technol.*, 320: 124394.
- Prakash, M., Karmegam, N., 2010a. Vermistabilization of pressmud using *Perionyx ceylanensis* Mich. *Bioresour. Technol.*, 101: 8464–8468.
- Prakash, M., Karmegam, N., 2010b. Dynamics of nutrients and microflora during vermicomposting of mango leaf litter (*Mangifera indica*) using *Perionyx ceylanensis*. *Int. J. Glob. Environ. Issues*, 10: 339–353.

#### For Books/Book Chapters

- Edwards, C.A., Arancon, N.Q., 2004. The use of earthworms in the breakdown of organic wastes to produce vermicomposts and animal feed protein. In: *Earthworm Ecology*, 2<sup>nd</sup> Edn. (Ed.: Edwards, C.A.), CRC Press, Boca Raton, pp.345–438.
- Cowan, M.M., 2014. *Microbiology: A Systems Approach*. 4<sup>th</sup> Edn. McGraw-Hill, p.896.
- Darwin, C. R., 1881. *The Formation of Vegetable Mould through the Action of Worms with Some Observations on Their Habits*. John Murray, London.
- Jain, S.K., 2004. *Manual of Ethnobotany*. Scientific Publishers, Jodhpur, India. p.193.

### Published Book Chapter(s)

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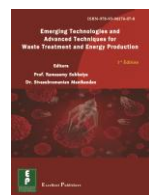


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