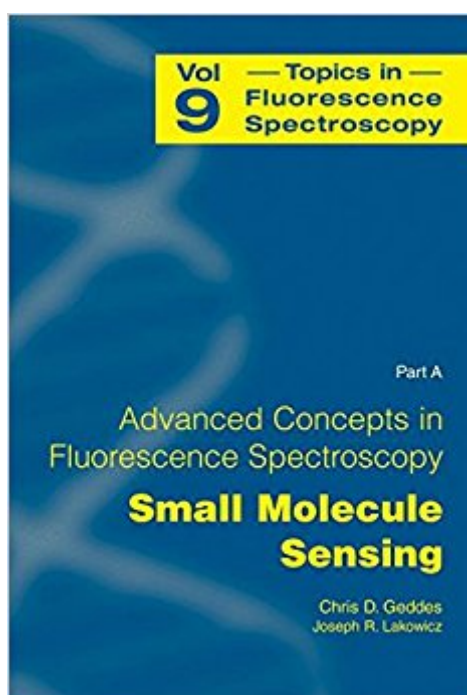


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# Topics In Fluorescence Spectroscopy, Vol. 9: Advanced Concepts In Fluorescence Sensing, Pt. A: Small Molecule Sensing



## Synopsis

Over the last decade, fluorescence has become the dominant tool in biotechnology and medical imaging. These exciting advances have been underpinned by the advances in time-resolved techniques and instrumentation, probe design, chemical / biochemical sensing, coupled with our furthered knowledge in biology. Complementary volumes 9 and 10, *Advanced Concepts of Fluorescence Sensing: Small Molecule Sensing* and *Advanced Concepts of Fluorescence Sensing: Macromolecular Sensing*, aim to summarize the current state of the art in fluorescent sensing. For this reason, Drs. Geddes and Lakowicz have invited chapters, encompassing a broad range of fluorescence sensing techniques. Some chapters deal with small molecule sensors, such as for anions, cations, and CO<sub>2</sub>, while others summarize recent advances in protein-based and macromolecular sensors. The Editors have, however, not included DNA or RNA based sensing in this volume, as this were reviewed in Volume 7 and is to be the subject of a more detailed volume in the near future.

## Book Information

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*Topics in Fluorescence Spectroscopy, Advanced Concepts in Fluorescence Sensing Part A: Small Molecule Sensing*, is the ninth volume in the popular series *Topics in Fluorescence Spectroscopy*, edited by Drs. Chris D. Geddes and Joseph R. Lakowicz. This volume incorporates authoritative small molecule analytical fluorescence sensing reviews specialized enough to be attractive to professional researchers, yet also appealing to the wider audience of scientists in related disciplines

of fluorescence. *Advanced Concepts in Fluorescence Sensing Part A: Small Molecule Sensing* is an essential reference for any lab working in the analytical fluorescence sensing field. All academics, bench scientists, and industry professionals wishing to take advantage of the latest and greatest in the continuously emerging field of fluorescence sensing will find it an invaluable resource. *Advanced Concepts in Fluorescence Sensing Part A: Small Molecule Sensing* topics include: Probes for Anion and Cation Sensing Fluorescent Carbon Dioxide Indicators Fluorescent Redox-Switchable Devices PET based Fluorescence Sensors Oxygen Sensing Fluorescence Sensing using Charge Transfer Probes Fluorescence-based Nitric Oxide Detection

About the Editors: Chris D. Geddes is an Associate Professor of Fluorescence Spectroscopy, Director of the Institute of Fluorescence, and Associate Director of the Center for Fluorescence Spectroscopy at the University of Maryland Biotechnology Institute, Medical Biotechnology Center, Baltimore. He is the Editor-in-Chief of the *Journal of Fluorescence* and both the Editor-in-Chief and Founding Editor of the *Who's Who in Fluorescence* and *Reviews in Fluorescence* annual volumes, as well as Executive Director of the Society of Fluorescence. Dr Geddes has published over 100 scientific articles, papers, review articles, books and book chapters on the principles and applications of fluorescence. Joseph R. Lakowicz is Professor of Biochemistry at the University of Maryland School of Medicine, Baltimore and Director of the Center for Fluorescence Spectroscopy. Dr. Lakowicz has published over 400 scientific articles, has edited numerous books, holds 16 issued patents, and is the author of the widely used text, *Principles of Fluorescence Spectroscopy*.

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