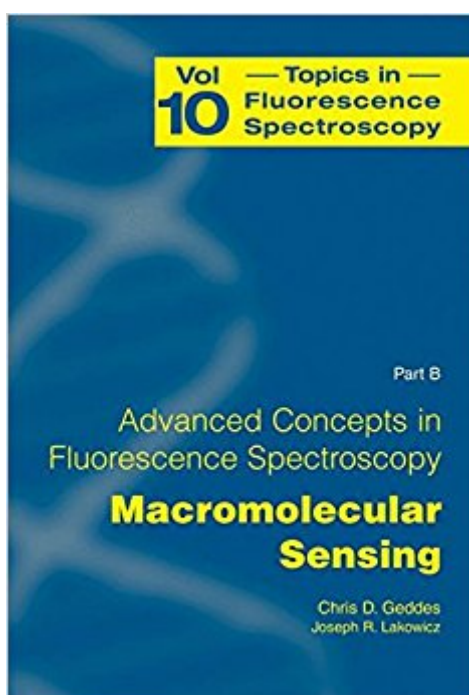


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Topics In Fluorescence Spectroscopy, Vol. 10: Advanced Concepts In Fluorescence Sensing, Pt. B: Macromolecular Sensing



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 & 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 CO₂, 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.

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Topics in Fluorescence Spectroscopy, *Advanced Concepts in Fluorescence Sensing Part B: Macromolecular Sensing*, is the tenth volume in the popular series *Topics in Fluorescence Spectroscopy*, edited by Drs. Chris D. Geddes and Joseph R. Lakowicz. This volume incorporates authoritative macromolecular 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. This volume directly compliments Volume 9 in the series, Part A: Small Molecule Sensing. Advanced Concepts in Fluorescence Sensing Part B: Macromolecular 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 macromolecular fluorescence sensing will find it an invaluable resource. Topics in Fluorescence Spectroscopy, Advanced Concepts in Fluorescence Sensing Part B: Macromolecular Sensing topics include: Protein-based Biosensors with Polarization based Transduction GFP Sensors Fluorescent Saccharide Sensors Fluorescent Pebble Nano-Sensors Aptamers for Macromolecular Sensing Molecular Imprinting Excimer Sensing

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.

This is a great book. Another great publication from Geddes. I follow the work from the Geddes labs even though it is not my area of expertise. Outstanding concept of MEF. I do raise the question of why Geddes always launches new books with Lakowicz as this must hinder the sales and not promote them. Well done Geddes loose that hanger on.

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