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Life Sciences : Biological Microscopy

Geddes, Chris D., Lakowicz, Joseph R. (Eds.)

Advanced Concepts in Fluorescence Sensing

Part A: Small Molecule Sensing

- While many of the changes in recent fluorescence have been well-received, its continued growth in the world has created a challenge in trying to archive and document its use. Subsequently Chris D. Geddes has now become co-series editor of the Topics in Fluorescence Spectroscopy series. Drs. Geddes and Lakowicz have also recently launched the Reviews in Fluorescence series, which is published annually and meant to compliment the Topics in Fluorescent Spectroscopy series, with small chapters summarizing the yearly progress in fluorescence

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 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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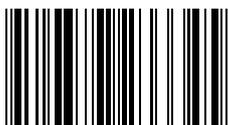
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