

Contents

1 Metal Enhancement of Near-IR Fluorescence for Molecular Biotechnology Applications	1
Jon P. Anderson, John G. Williams, Daniel L. Grone, and Michael G. Nichols	
2 Principal Component Global Analysis of Series of Fluorescence Spectra	23
Wajih Al-Soufi, Mercedes Novo, Manuel Mosquera, and Flor Rodríguez-Prieto	
3 Hot Electron-Induced Electrogenerated Chemiluminescence	47
Johanna Suomi and Sakari Kulmala	
4 Extension of Fluorescence Response to the Near-IR Region.....	75
Tarek A. Fayed	
5 Luminescence Analysis of $\text{Bi}_4(\text{TiO}_4)_3$ and LiZnVO_4 Ceramic Powders.....	113
Bhaskar Kumar Grandhe and Buddhudu Srinivasa	
6 Time-Related, Single-Photon Counting Methods in Endothelial Cell Mechanobiology	127
Peter J. Butler, Ramachandra R. Gullapalli, Tristan Tabouillot, and Michael C. Ferko	
7 Going Beyond Continuous Glucose Monitoring with Boronic Acid-Appended Bipyridinium Salts	155
Alexander Schiller, Boaz Vilozny, Ritchie A. Wessling, and Bakthan Singaram	

8 Mapping and Immunomodulation of the Cell Surface Protein Architecture with Therapeutic Implications: Fluorescence Is a Key Tool of Solution	193
Péter Nagy, Andrea Balogh, János Szöllősi, and János Matkó	
9 Origin of Tryptophan Fluorescence.....	225
J.R. Albani	
10 Protein Folding, Unfolding, and Aggregation Processes Revealed by Rapid Sampling of Time-Domain Fluorescence.....	281
Saswata Sankar Sarkar, Anoop Saxena, Nihav Dhawale, Jayant B. Udgaonkar, and G. Krishnamoorthy	
11 Theme and Variation on <i>N</i>-Aryl-1,8-Naphthalimides: Minimal Modification to Red-Shifted Fluorescence and Applications in Fluorescent Chemosensors.....	303
Premchendar Nandhikonda, Zhi Cao, and Michael D. Heagy	
12 Z-Scan Fluorescence Correlation Spectroscopy: A Powerful Tool for Determination of Lateral Diffusion in Biological Systems	321
Martin Štefl, Radek Macháň, and Martin Hof	
13 Total Internal Reflection with Fluorescence Correlation Spectroscopy	345
Nancy L. Thompson, Punya Navaratnarajah, and Xiang Wang	
Index.....	381



<http://www.springer.com/978-1-4419-9671-8>

Reviews in Fluorescence 2009

Geddes, C.D. (Ed.)

2011, XII, 392 p., Hardcover

ISBN: 978-1-4419-9671-8