

Contents

Simple Calibration and Validation Standards for Fluorometry	1
Ute Resch-Genger, Katrin Hoffmann, and Dietmar Pfeifer	
Membranes and Fluorescence Microscopy	33
Luis A. Bagatolli	
Electronic Energy Transport and Fluorescence Spectroscopy for Structural Insights into Proteins, Regular Protein Aggregates and Lipid Systems	53
Therese Mikaelsson, Radek Šachl, and Lennart B.-Å. Johansson	
Spectra FRET: A Fluorescence Resonance Energy Transfer Method in Live Cells	87
Ekaterina A. Bykova and Jie Zheng	
Boronic Acid Based Modular Fluorescent Saccharide Sensors	103
John S. Fossey and Tony D. James	
Fluorescence Solvent Relaxation in Cationic Membranes	119
Agnieszka Olżyńska, Piotr Jurkiewicz, and Martin Hof	
Quantum Dot-Encoded Fluorescent Beads for Biodetection and Imaging	139
Jian Yang, Mark P. Sena, and Xiaohu Gao	
Study of Biological Assemblies by Ultrafast Fluorescence Spectroscopy	157
Sudip Kumar Mondal, Kalyanasis Sahu, and Kankan Bhattacharyya	
Fluorescence Signal Amplification for Ultrasensitive DNA Detection . .	179
Kim Doré, Mario Leclerc, and Denis Boudreau	
Exploring the Electrostatic Landscape of Proteins with Tryptophan Fluorescence	199
Patrik R. Callis	
Fluorescent Probes for Two-Photon Excitation Microscopy	249
Christoph J. Fahrni	

High-Resolution Fluorescence Studies on Excited-State Intra- and Intermolecular Proton Transfer	271
Joost S. de Klerk, Arjen N. Bader, Freek Arieze, and Cees Gooijer	
Hydrocarbon Fluid Inclusion Fluorescence: A Review	299
Nigel J.F. Blamey and Alan G. Ryder	
Photophysics and Biophysical Applications of Benzo[a]phenoxazine Type Fluorophores	335
Paulo J.G. Coutinho	
A Fluorescence Quenching Method to Study Interactions of Hemoglobin Derivatives with Erythroid Spectrin	363
Abhijit Chakrabarti	
Photoluminescence of Pharmaceutical Materials in the Solid State. 4. Fluorescence Studies of Various Solvated and Desolvated Solvatomorphs of Erythromycin A	379
Harry G. Brittain	
Index	393



<http://www.springer.com/978-0-387-88721-0>

Reviews in Fluorescence 2007

Geddes, C.D. (Ed.)

2009, XI, 400 p., Hardcover

ISBN: 978-0-387-88721-0