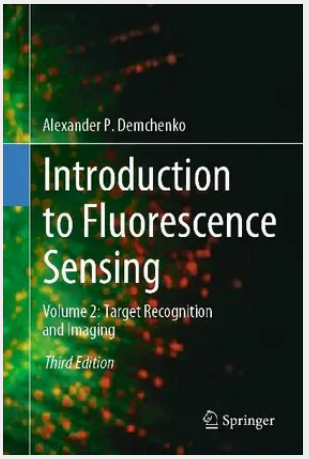
Demchenko

Introduction to Fluorescence Sensing

Volume 2: Target Recognition and Imaging



Fluorescence is the most popular technique in chemical and biological sensing because of its ultimate sensitivity, high temporal and spatial resolution and versatility that enables imaging within the living cells. It develops rapidly in the directions of constructing new molecular recognition units, new fluorescence reporters and in improving sensitivity of response up to detection of single molecules. Its application areas range from control of industrial processes to environment monitoring and clinical diagnostics. This book provides systematic knowledge of basic principles in design of fluorescence sensing and imaging techniques together with critical analysis of recent developments. Being a guide for students and young researchers, it also addresses professionals involved in active basic and applied research. Making a strong link between education, research and product development, this book discusses prospects for future progress.

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171,19 €
159,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783031190889
Medium: Buch
ISBN: 978-3-031-19088-9
Verlag: Palgrave Macmillan
Erscheinungstermin: 16.02.2023
Sprache(n): Englisch
Auflage: Third Auflage 2023
Produktform: Gebunden
Gewicht: 1468 g
Seiten: 761
Format (B x H): 160 x 241 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)