



biosensors



Special Issue Reprint

Label-Free Biosensor

www.mdpi.com/books/reprint/7502

Edited by
Pengfei Zhang
Rui Wang



ISBN 978-3-0365-7874-3 (Hardback)
ISBN 978-3-0365-7875-0 (PDF)

Over the past decade, we have witnessed significant advancements in the label-free biosensing field. Label-free biosensors aim at detecting the target molecules or biological processes without labels, thus allowing evaluation of their intrinsic properties in their natural forms, as well as easy operations without sophisticated pre-treatments of samples, which has drawn more and more attention in biological studies and rapid clinical tests. The main challenges include two aspects. First, the measurement system should be sensitive enough to detect the tiny signals corresponding to the specific target properties. Second, the signal processing protocols should be able to recognize the signals from the complex background. Owing to the great advances of commercial detection components with high sensitivity, more and more ingenious but economic label-free biosensors have been presented for diverse applications. This Special Issue, entitled “Label-free Biosensors”, focuses on recent advances in producing sensitive and easy-to-use label-free biosensors and their applications in diverse fields. This collection presents several novel label-free detection techniques to introduce design strategies and operation protocols in practical application, which might be of particular value to beginners and graduate students who have just entered this field.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/7502

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.