

# }essentials{

Rolf Theodor Borlinghaus

## Unbegrenzte Lichtmikroskopie

Über Auflösung und Super-  
Hochauflösung und die Frage,  
ob man Moleküle sehen kann



Springer Spektrum

# Unbegrenzte Lichtmikroskopie Essentials Theodor Borlinghaus

**Rolf Theodor Borlinghaus**



## **Unbegrenzte Lichtmikroskopie Essentials Theodor Borlinghaus:**

**Unbegrenzte Lichtmikroskopie** Rolf Theodor Borlinghaus, 2015-07-07 Rolf T Borlinghaus erläutert die Ursachen für die klassische Begrenzung der Lichtmikroskopie und beleuchtet die neuen Super-Hochauflösungstechniken. Dies ist besonders aktuell, da der Nobelpreis 2014 für Chemie für die Entwicklung von Technologien vergeben wurde, die es nun ermöglichen mit Lichtmikroskopen feinere Details aufzulesen als es die klassische Theorie einschränkend vorhersagt. Diese neuen Methoden stellen aber nicht das bisherige Weltbild der Optik in Frage, vielmehr nutzen sie ganz andere Phänomene um mittels klassischer Optik Positionsbestimmungen von Molekülen durchzuführen. Das ist theoretisch beliebig genau möglich. **The**

**Light-Sheet Microscopy** Rolf Theodor Borlinghaus, 2021-06-01 This essential explains what distinguishes light sheet microscopy from ordinary light microscopy. The author briefly examines the history of such principles focusing on the technical concepts. Finally, current manifestations are presented without descending into the depths of the art of engineering. The unusual feature of light sheet microscopy is not only that observation and illumination take place at a right angle but also that this type of microscopy gains in particular from the fact that the type of illumination only passes through a very small part of the specimen. The appropriate selection of optical elements ensures that the observed image no longer contains any blurred parts. This Springer essential is a translation of the original German 1st edition 'essentials Die Lichtblattmikroskopie' by Rolf Theodor Borlinghaus published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2017. The translation was done with the help of artificial intelligence machine translation by the service DeepL.com. A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. Die Lichtblattmikroskopie Rolf Theodor Borlinghaus, 2017-01-11 In diesem

essential wird erläutert, was die Lichtblattmikroskopie von gewöhnlicher Lichtmikroskopie unterscheidet. Der Autor beleuchtet kurz die Historie solcher Verfahren, wobei der Schwerpunkt auf den technischen Konzepten liegt. Schließlich werden aktuelle Erscheinungsformen vorgestellt, ohne in die Tiefen der Ingenieurskunst hinabzusteigen. Die Ungewöhnlichkeit der Lichtblattmikroskopie besteht nicht nur darin, dass Betrachtung und Beleuchtung unter einem rechten Winkel stattfinden, vielmehr gewinnt diese Art der Mikroskopie vor allem dadurch, dass durch die Art der Beleuchtung nur ein ganz kleiner Teil des Präparates durchstrahlt wird. Die geeignete Auswahl der optischen Elemente sorgt dafür, dass das beobachtete Bild keine unscharfen Anteile mehr enthält. **The White Confocal** Rolf Theodor Borlinghaus, 2017-05-25 This book offers a

comprehensive introduction to confocal microscopy with a particular focus on spectral confocal microscopy. Beginning with an introduction to optical lenses, it provides a guide to compound microscopes and explains related topics like microscopic resolution. It then presents an outline of fluorescence and its corresponding implications for microscopy. The following excursus on the confocal beam paths includes implementation of acousto-optical devices and modern sensor techniques.

Complex relationships are explained in a comprehensible manner supported by many graphical figures. Discussing the principles of magnifying optics and the technical fundamentals and modes of operation of modern laser scanning microscopes, it is a valuable resource for student and lab technicians as well as faculty members. *Konfokale Mikroskopie in Weiß* Rolf Theodor Borlinghaus, 2016-04-28. Dieses Buch erläutert die technischen Grundlagen und Funktionsweisen moderner Laser Rastermikroskope. Unterstützt durch viele grafische Darstellungen werden die zunächst komplexen Zusammenhänge verständlich erklärt und ihre Wirkungsweisen für die Praxis erläutert. Wir präsentieren Ihnen hier eine Einführung in die konfokale Mikroskopie speziell in ihrer spektralen Spielart. Der Autor spannt einen weiten Bogen von den Ursprüngen der vergrößernden Optik zu den neuesten Technologien der modernsten Rastermikroskopie, sodass auch Leser, die weder das eine noch das andere benutzen, diesem Bogen folgen können und jene, die sich schon länger mit der Materie befassen, dennoch das Buch nicht gelangweilt in die Ecke legen werden. Vom Studenten über BTAs und Laboranten bis zum Hochschullehrer wird dieses Buch für Jeden ein Gewinn sein.

## **Unbegrenzte Lichtmikroskopie Essentials Theodor Borlinghaus** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Unbegrenzte Lichtmikroskopie Essentials Theodor Borlinghaus**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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