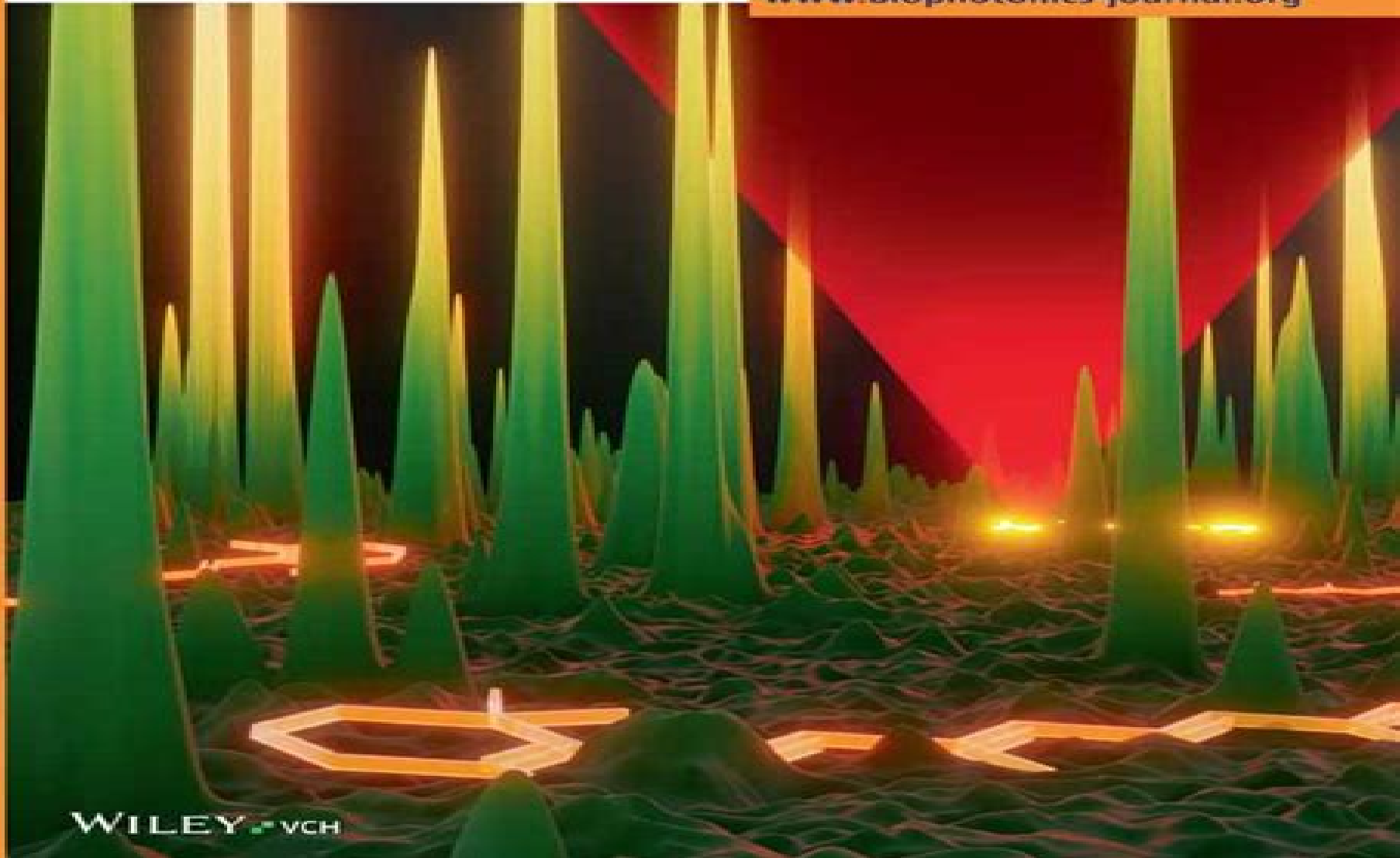


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Jürgen Popp



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European Journal of Organic Chemistry, 2007 **Ex-vivo and In-vivo Optical Molecular Pathology** Jürgen Popp, 2014-03-14 The result of a unique collaboration between clinicians chemists and physicists this book provides an unparalleled overview of a new generation of diagnostic tools in clinical pathology The introductory chapters cover the present status and limitations of currently used methods followed by an outline of promising novel spectroscopy based technologies either under development or recently available on the market The input from both technologists developing these new methods as well as routine clinicians familiar with practical aspects and medical relevance guarantees that this practical work is a valuable asset for a wide audience including technical personnel and decision makers in treatment centers experts working in companies developing diagnostic devices and clinicians specializing in advanced diagnostic methods Since basic researchers are increasingly adopting novel diagnostic tools developed for human use as well this will also be of interest for biomedical research institutions with large animal facilities List of Serials Indexed for Online Users , Each entry gives abbreviated title full title publication city NLM call number NLM title control number ISSN number special list indicator journal title code and sometimes a brief note 1983 ed 6037 titles **Modern Techniques for Pathogen Detection** Jürgen Popp, Michael Bauer, 2015-06-08 This outstanding overview sets a new standard for a methods book on pathogen detection The first chapter provides an outline of currently used routine methods including their background strengths and weaknesses as well as comparing them to newer methods The following chapters then cover novel methods already in wide use and which are still more experimental for routine purposes An invaluable resource for all medical laboratories and clinical institutions dealing with infectious diseases *Infrared and Raman Spectroscopic Imaging* Reiner Salzer, Heinz W. Siesler, 2014-08-07 This second edition of the successful ready reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements as well as the significant expansion of this rapidly developing field For example the combination of IR imaging with AFM has enhanced the achievable lateral resolution by an order of magnitude down to a few hundred nanometers thus launching a multiplicity of new applications in material science Furthermore Raman and IR spectroscopic imaging have become key technologies for the life sciences and today contribute tremendously to a better and more detailed understanding of numerous biological and medical research topics The topical structure of this new edition is now subdivided into four parts The first treats the fundamentals of the instrumentation for infrared and Raman imaging and mapping and an overview on the chemometric tools for image analysis The second part describes a wide variety of applications ranging from biomedical via food agriculture and plants to polymers and pharmaceuticals This is followed by a description of imaging techniques operating beyond the diffraction limit while the final part covers special methodical developments and their utility in specific fields With its many valuable practical tips this is a must have overview for researchers in academic and industrial laboratories wishing to obtain

reliable results with this method *Gale Directory of Publications and Broadcast Media* ,2009 Nanobiophotonics Gabriel Popescu,2010-07-23 Cutting edge coverage of nanobiophotonics Written by global experts Nanobiophotonics offers in depth details on this emerging cross disciplinary field After discussions on cancer cell biology electromagnetic fields and nanophotonics the book delves into nanobiophotonics technologies and current research areas This pioneering work covers the latest nanoscale and superresolution medical imaging methods and biomedical applications Nanobiophotonics covers Tissue pathology Light scattering by inhomogeneous media Nonlinear optics Vision restoration Optical low coherence interferometric techniques Plasmonics and metamaterials Infrared spectroscopic imaging Scattering absorbing and modulating nanoprobe for coherence imaging Second harmonic generation imaging of collagen based systems Plasmon resonance energy transfer nanospectroscopy Erythrocyte nanoscale flickering as a marker for disease Superresolution far field fluorescence microscopy **Computational Optical Phase Imaging** Cheng Liu,Shouyu Wang,Suhas P. Veetil,2022-04-11 In this book computational optical phase imaging techniques are presented along with Matlab codes that allow the reader to run their own simulations and gain a thorough understanding of the current state of the art The book focuses on modern applications of computational optical phase imaging in engineering measurements and biomedical imaging Additionally it discusses the future of computational optical phase imaging especially in terms of system miniaturization and deep learning based phase retrieval *Biophotonics and New Therapy Frontiers* Romualda Grzymala,Olivier Haeberlé,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Imaging from Cells to Animals In Vivo** Margarida Barroso,Xavier Intes,2020-12-03 Imaging from Cells to Animals In Vivo offers an overview of optical imaging techniques developed over the past two decades to investigate biological processes in live cells and tissues It comprehensively covers the main imaging approaches used as well as the application of those techniques to biological investigations in preclinical models Among the areas covered are cell metabolism receptor ligand interactions membrane trafficking cell signaling cell migration cell adhesion cytoskeleton and other processes using various molecular optical imaging techniques in living organisms such as mice and zebrafish Features Brings together biology and advanced optical imaging techniques to provide an overview of progress and modern methods from microscopy to whole body imaging Fills the need for a comprehensive view of application driven development and use of new tools to ask new biological questions in the context of a living system Includes basic chapters on key methods and instrumentation from fluorescence microscopy and imaging to endoscopy optical coherence tomography and super resolution imaging Discusses approaches at different length scales and biomedical applications to the study of single cell whole organ and whole organism behavior Addresses the impact on discovery such as cellular function as implicated in human disease

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Multimodal Optical Diagnostics of Cancer Valery V. Tuchin, Jürgen Popp, Valery Zakharov, 2020-10-23 This book provides an in depth description and discussion of different multi modal diagnostic techniques for cancer detection and treatment using exact optical methods their comparison and combination Coverage includes detailed descriptions of modern state of design for novel methods of optical non invasive cancer diagnostics multi modal methods for earlier cancer diagnostic enhancing the probability of effective cancer treatment modern clinical trials with novel methods of clinical cancer diagnostics medical and technical aspects of clinical cancer diagnostics and long term monitoring Biomedical engineers cancer researchers and scientists will find the book to be an invaluable resource Introduces optical imaging strategies Focuses on multimodal optical diagnostics as a fundamental approach Discusses novel methods of optical non invasive cancer diagnostics **Nanobiophotonics and Biomedical Applications**, 2006 **Indian Journal of Experimental Biology**

, 2003 *The Journal of Immunology*, 2006 Special Issue on Biophotonics Allister I. Ferguson, P. M. W. French, 2003

Functional Materials Technology and Industry Forum IX Xiao Lang Chen, Xin Li Guo, Xiao Long Lu, 2018-02-21 9th China Functional Material Technology and Industry Forum 9th CFMTIF 2017 Selected peer reviewed papers from the 9th China Functional Materials Technology and Industry Forum 9th CEMTIF 2017 August 18 21 2017 Yinchuan China

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