

Renat I. Zhdanov (Ed.)

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# Bioactive Spin Labels



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Springer-Verlag

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**Oleg Grinberg, Lawrence Berliner**



## **Bioactive Spin Labels:**

**Bioactive Spin Labels** Renat I. Zhdanov, 2012-05-21      **Bioactive Spin Labels** Renat I. Zhdanov, 2013-06-29 Bioactive Spin Labels is a collection of contributions by leading experts on nitroxyl radicals and their application in biomedicine These compounds are used as side specific contrast agents for in vivo EPR techniques Their potential as drugs is investigated Bioactive Spin Labels is a must for researchers in bioorganic chemistry pharmacology and biomedicine      **Very High Frequency (VHF) ESR/EPR** Oleg Grinberg, Lawrence Berliner, 2004-06-29 The field of Very High Frequency EPR VHF EPR or sometimes called Very High Field EPR conveniently also abbreviated as VHF EPR has blossomed during the past decade especially after the original pioneering work of Ya S Lebedev and his group at the Institute of Chemical Physics Russian Academy of Sciences in Moscow Although Lebedev suffered heavily under the economic constraints of the communist Soviet Union and then succumbed to cancer at the peak of his scientific career his groundbreaking work from the 1970 s is still considered today to be the gold standard by researchers practicing EPR at high magnetic fields A stimulus for the production of this book is the legacy of Yakov Levedev in his students now residing in academic positions in the US and elsewhere The aim of this book is to highlight the state of this growing field This is an attempt to cover the full scope of VHF EPR in a single volume The idea for this volume came to the editors at the 2001 Rocky Mountain Analytical Conference during the 24th International EPR Symposium chaired by Sandra and Gareth Eaton VHF EPR was presented as an independent research field at a workshop organized by LC Brunel and supported by the National High Magnetic Field Laboratory a National Science Foundation funded facility at Florida State University      2-mm Wave Band EPR Spectroscopy of Condensed Systems V. I. Krinichnyi, 2018-01-18 This is the first book to summarize the problems of using modern high resolution 2 mm wave band EPR spectroscopy in an interdisciplinary field for the investigation of various condensed systems The material is well illustrated and the applications are as diverse as possible The main subjects included are unique characteristics of 2 mm EPR spectroscopy and appropriate experimental techniques dynamics and polarity of radical microenvironment in model and biological systems and the nature of charge carriers and charge transfer mechanisms in organic polymer semiconductors      *Comprehensive Biophysics* , 2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other s research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more

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**New Trends in Enzyme Catalysis and Biomimetic Chemical Reactions** Gertz I. Likhtenshtein, 2007-05-08. This book is a view of enzyme catalysis by a physico-chemist with long term experience in the investigation of structure and action mechanism of biological catalysts. This book is not intended to provide an exhaustive survey of each topic but rather a discussion of their theoretical and experimental background and recent developments. The literature of enzyme catalysis is so vast and many scientists have made important contribution in the area that it is impossible in the space allowed for this book to give a representative set of references. The author has tried to use reviews and general principles of articles. He apologizes to those he has not been able to include. The monograph is intended for scientists working on enzyme catalysis and adjacent areas such as chemical modeling of biological processes, homogeneous catalysis, biomedical research and biotechnology. The book can be used as a subsidiary manual for instructors, graduate and undergraduate students of university biochemistry and chemistry departments. Pages ix x.

*Modern Methods in Protein- and Nucleic Acid Research* Harald Tschesche, 2019-11-18. No detailed description available for Modern Methods in Protein and Nucleic Acid Research. *McGraw-Hill Encyclopedia of Science & Technology: Sor-sup*

, 2002. This resource provides in depth coverage of major scientific and technological developments. It offers illustrated detailed coverage of the discoveries, advances and milestones that continue to shape our lives. **Russian Journal of Physical Chemistry**, 1995.

**Methods in Nitric Oxide Research** Martin Feelisch, Jonathan S. Stamler, 1996-06-04. This handbook describes methods for the measurement and investigation of nitric oxide. The topics discussed include the metabolism of substrates and cofactors, the detection of nitrogen oxides, the detection of nitrogen oxide synthase activity and the detection of adducts and reaction products. *Biological Chemistry Hoppe-Seyler*, 1992. *Cytobios*, 2001. *Magnetic Resonance and Related Phenomena*, 1994. **McGraw-Hill Encyclopedia of Science & Technology** Sybil P. Parker, 1997.

A comprehensive 20 volume reference encyclopedia on science and technology    *Biophysics* ,1993    **The Role of Free Radicals in Biodegradable Polymeric Biomaterials** Keun Ho Lee,1997    *Russian Chemical Reviews* ,1999    Polymer Science ,1996    Biochemical and Organic Compounds for Research and Diagnostic Clinical Reagents Sigma Chemical Company,1995    **Computational Chemistry F.E.C.S. Conference** Francesco Bernardi,Jean-Louis Rivail,1998-04-15

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