

MOLECULAR ELECTRONIC DEVICES

- Monomolecular film devices(diodes, switches, memory).
- Single molecule FET
- Organic light emitting diode(OLED).

Molecular Electronics And Molecular Electronic Devices

Kristof Sienicki

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Molecular Electronics And Molecular Electronic Devices:

Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1993-03-25 Molecular Electronics and Molecular Electronic Devices is a book that provides a comprehensive review of current problems and information regarding all aspects of molecular electronics and molecular electronic devices Experimental and theoretical aspects of molecular electronics and molecular electronic devices are reviewed by distinguished researchers working in chemistry physics computer science and various areas of biology These books are excellent references for physicists chemists electronics engineers materials scientists and researchers interested in molecular electronics and molecular electronic devices

Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1994 Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1994-03-22 Molecular Electronics and Molecular Electronic Devices is a new book series that reflects the state of the art in the science and technology of molecular electronic devices It provides a comprehensive review of current problems and the latest information regarding all aspects of molecular electronics and molecular electronic devices Experimental and theoretical aspects of molecular electronics and molecular electronic devices are reviewed by distinguished researchers working in chemistry physics computer science and various areas of biology

Molecular-Scale Electronics Xuefeng Guo, Dong Xiang, Yu Li, 2020-08-31 Provides in depth knowledge on molecular electronics and emphasizes the techniques for designing molecular junctions with controlled functionalities This comprehensive book covers the major advances with the most general applicability in the field of molecular electronic devices It emphasizes new insights into the development of efficient platform methodologies for building such reliable devices with desired functionalities through the combination of programmed bottom up self assembly and sophisticated top down device fabrication It also helps to develop an understanding of the device fabrication processes and the characteristics of the resulting electrode molecule interface Beginning with an introduction to the subject Molecular Scale Electronics Concept Fabrication and Applications offers full chapter coverage on topics such as Metal Electrodes for Molecular Electronics Carbon Electrodes for Molecular Electronics Other Electrodes for Molecular Electronics Novel Phenomena in Single Molecule Junctions and Supramolecular Interactions in Single Molecule Junctions Other chapters discuss Theoretical Aspects for Electron Transport through Molecular Junctions Characterization Techniques for Molecular Electronics and Integrating Molecular Functionalities into Electrical Circuits The book finishes with a summary of the primary challenges facing the field and offers an outlook at its future Summarizes a number of different approaches for forming molecular scale junctions and discusses various experimental techniques for examining these nanoscale circuits in detail Gives overview of characterization techniques and theoretical simulations for molecular electronics Highlights the major contributions and new concepts of integrating molecular functionalities into electrical circuits Provides a critical discussion of limitations and main challenges that still exist for the development of molecular electronics Suited for readers studying or doing research in the

broad fields of Nano molecular electronics and other device related fields Molecular Scale Electronics is an excellent book for materials scientists electrochemists electronics engineers physical chemists polymer chemists and solid state chemists It will also benefit physicists semiconductor physicists engineering scientists and surface chemists *Molecular Electronics and Molecular Electronic Devices* Kristof Sienicki,1993-09-27 Molecular Electronics and Molecular Electronic Devices is a book that provides a comprehensive review of current problems and information regarding aspects of molecular electronics and molecular electronic devices Experimental and theoretical aspects of molecular electronics and molecular electronic devices are reviewed by distinguished researchers working in chemistry physics computer science and various areas of biology These books will be an excellent reference for physicists chemists electronics engineers and researchers interested in molecular electronics and molecular electronic devices Molecular Electronics ,1985 *Molecular Electronics* Ioan Baldea,2016-01-05 Molecular electronics an emerging research field at the border of physics chemistry and material sciences has attracted great interest in the last decade To achieve the ultimate goal of designing molecular electronic devices with the desired functionality and experimental manipulation at the single molecule level theoretical understanding of Molecular Electronics Michael C. Petty,2008-03-11 This consistent and comprehensive text is unique in providing an informed insight into molecular electronics by contrasting the prospects for molecular scale electronics with the continuing development of the inorganic semiconductor industry Providing a wealth of information on the subject from background material to possible applications Molecular Electronics contains all the need to know information in one easily accessible place Speculation about future developments has also been included to give the whole picture of this increasingly popular and important topic

Molecular-Scale Electronics Xuefeng Guo,2018-12-06 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field **Single Molecule Electronics and Nanofabrication of Molecular Electronic Devices** Senthil Arun Rajagopal,2006 Molecular electronics is an emerging field that makes it possible to build electronic devices with single molecules as their active element The conductivity of single molecules can be manipulated to perform functions similar to present day bulk electronic devices These

single molecules with a size of few nano meters can be designed and chemically synthesized with tailored electronic structures This thesis focuses on the design fabrication and measurement of nanogap electronic devices The enabling device to study the conductivity of dimetal paddlewheel inorganic complexes using electrode pairs with nanometer separation is fabricated A study of these inorganic complexes would provide more versatile opportunities for tailoring electron transport properties The molecular complex and its electron transport mechanism are discussed and a detailed description of the fabrication of the nano gap electrode with a controlled gap size is provided Electron beam lithography fabrication techniques are discussed in detail A reliable method to fabricate a controlled nanogap with electrodeposition and electromigration is demonstrated The results of I V curves of gaps are used to estimate the nanogap dimensions via comparison to tunneling current theory

Molecular Electronic Devices II Carter,1987-08-28 Molecular Electronics F.T. Hong,2012-12-06

The dream of developing a biocomputer should not be dismissed as a sheer fantasy Although there is naturally some doubt as to whether it is possible to design a computer using carbon based components as in living organisms instead of silicon based components as in existing computers the fact that an average brain often outperforms the most sophisticated computer in terms of the complexity of tasks if not in terms of speed is a living testimony to this possibility The remaining question is to what extent a biocomputer can mimic a living organism and whether it is possible to design and fabricate such a biocomputer within the foreseeable future This volume does not attempt to provide immediate and exact answers to these questions but instead attempts to provide a vision and a progress report of the initial efforts This volume is mainly a collection of papers presented at the Symposium on Molecular Electronics Biosensors and Biocomputers sponsored by the Division of Biotechnology Health and Environment of the Fine Particle Society held from July 19 22 1989 at the Society's 19th Annual Meeting in Santa Clara California Also included are articles contributed by those who planned to attend the conference but were unable to do so The emergence of the field of molecular electronics is largely the consequence of one person's crusade that of Forrest L Carter

Introducing Molecular Electronics Gianaurelio Cuniberti,Giorgos Fagas,Klaus Richter,2006-05-21 Klaus von Klitzing Max Planck Institut für Festkörperforschung Heisenbergstraße 1 70569 Stuttgart Germany Already many Cassandras have prematurely announced the end of the silicon roadmap and yet conventional semiconductor based transistors have been continuously shrinking at a pace which has brought us to nowadays cheap and powerful microelectronics However it is clear that the traditional scaling laws cannot be applied if unwanted tunnel phenomena or ballistic transport dominate the device properties It is generally expected that a combination of silicon CMOS devices with molecular structure will dominate the field of nanoelectronics in 20 years The visionary ideas of atomic or molecular scale electronics already date back thirty years but only recently advanced nanotechnology including e.g scanning tunneling methods and mechanically controllable break junctions have enabled to make distinct progress in this direction On the level of fundamental research state-of-the-art techniques allow to manipulate image and probe charge transport through uni

molecular systems in an increasingly controlled way. Hence molecular electronics is reaching a stage of trustable and reproducible experiments. This has led to a variety of physical and chemical phenomena recently observed for charge currents owing through molecular junctions posing new challenges to theory. As a result, a still increasing number of open questions determines the future agenda in this field.

Molecular Electronic Devices Forrest L. Carter, 1962

Molecular-Scale Electronics Xuefeng Guo, Dong Xiang, Yu Li, 2020-07-15

Provides in depth knowledge on molecular electronics and emphasizes the techniques for designing molecular junctions with controlled functionalities. This comprehensive book covers the major advances with the most general applicability in the field of molecular electronic devices. It emphasizes new insights into the development of efficient platform methodologies for building such reliable devices with desired functionalities through the combination of programmed bottom up self assembly and sophisticated top down device fabrication. It also helps to develop an understanding of the device fabrication processes and the characteristics of the resulting electrode molecule interface. Beginning with an introduction to the subject, *Molecular Scale Electronics: Concept, Fabrication and Applications* offers full chapter coverage on topics such as Metal Electrodes for Molecular Electronics, Carbon Electrodes for Molecular Electronics, Other Electrodes for Molecular Electronics, Novel Phenomena in Single Molecule Junctions and Supramolecular Interactions in Single Molecule Junctions. Other chapters discuss Theoretical Aspects for Electron Transport through Molecular Junctions, Characterization Techniques for Molecular Electronics and Integrating Molecular Functionalities into Electrical Circuits. The book finishes with a summary of the primary challenges facing the field and offers an outlook at its future. Summarizes a number of different approaches for forming molecular scale junctions and discusses various experimental techniques for examining these nanoscale circuits in detail. Gives overview of characterization techniques and theoretical simulations for molecular electronics. Highlights the major contributions and new concepts of integrating molecular functionalities into electrical circuits. Provides a critical discussion of limitations and main challenges that still exist for the development of molecular electronics. Suited for readers studying or doing research in the broad fields of Nano molecular electronics and other device related fields. *Molecular Scale Electronics* is an excellent book for materials scientists, electrochemists, electronics engineers, physical chemists, polymer chemists and solid state chemists. It will also benefit physicists, semiconductor physicists, engineering scientists and surface chemists.

Molecular Electronics Juan Carlos Cuevas, Elke Scheer, 2010

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Molecular Electronics: An Introduction To Theory And Experiment (2nd Edition) Elke Scheer, Juan Carlos Cuevas, 2017-05-19 Molecular Electronics is self contained and unified in its presentation It can be used as a textbook on nanoelectronics by graduate students and advanced undergraduates studying physics and chemistry In addition included in this new edition are previously unpublished material that will help researchers gain a deeper understanding into the basic concepts involved in the field of molecular electronics

Historical Studies in the Societal Impact of Spaceflight Steven J. Dick, 2015

Molecular Electronics P.I. Lazarev, 2012-12-06

Organic and Molecular Electronics Michael C. Petty, 2019-01-04 An introduction to the interdisciplinary subject of molecular electronics revised and updated The revised second edition of Organic and Molecular Electronics offers a guide to the fabrication and application of a wide range of electronic devices based around organic materials and low cost technologies Since the publication of the first edition organic electronics has greatly progressed as evidenced by the myriad companies that have been established to explore the new possibilities The text contains an introduction into the physics and chemistry of organic materials and

includes a discussion of the means to process the materials into a form in most cases a thin film where they can be exploited in electronic and optoelectronic devices The text covers the areas of application and potential application that range from chemical and biochemical sensors to plastic light emitting displays The updated second edition reflects the recent progress in both organic and molecular electronics and Offers an accessible resource for a wide range of readers Contains a comprehensive text that covers topics including electrical conductivity optical phenomena electroactive organic compounds tools for molecular electronics and much more Includes illustrative examples based on the most recent research Presents problems at the end of each chapter to help reinforce key points Written mainly for engineering students Organic and Molecular Electronics From Principles to Practice provides an updated introduction to the interdisciplinary subjects of organic electronics and molecular electronics with detailed examples of applications

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