

Molecular Electronic Devices

James M. Tour

Molecular Electronic Devices:

Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1994 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-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 Juan Carlos Cuevas, Elke Scheer, 2010 1 The birth of molecular electronics 1 1 Why molecular electronics 1 2 A brief history of molecular electronics 1 3 Scope and structure of the book 2 Fabrication of metallic atomic size contacts 2 1 Introduction 2 2 Techniques involving the scanning electron microscope STM 2 3 Methods using atomic force microscopes AFM 2 4 Contacts between macroscopic wires 2 5 Transmission electron microscope 2 6 Mechanically controllable break junctions MCBJ 2 7 Electromigration technique 2 8 Electrochemical methods 2 9 Recent developments 2 10 Electronic transport measurements 2 11 Exercises 3 Contacting single molecules Experimental techniques 3 1 Introduction 3 2 Molecules for molecular electronics 3 3 Deposition of molecules 3 4 Contacting single molecules 3 5 Contacting molecular ensembles 3 6 Exercises 4 The scattering approach to phase coherent transport in nanocontacts 4 1 Introduction 4 2 From mesoscopic conductors to atomic scale junctions 4 3 Conductance is transmission heuristic derivation of the Landauer formula 4 4 Penetration of a potential barrier tunnel effect 4 5 The scattering matrix 4 6 Multichannel Landauer formula 4 7 Shot noise 4 8 Thermal transport and thermoelectric phenomena 4 9 Limitations of the scattering approach 4 10 Exercises 5 Introduction to Green s function techniques for systems in equilibrium 5 1 The Schrödinger and Heisenberg pictures 5 2 Green's functions of a noninteracting electron system 5 3 Application to tight binding Hamiltonians 5 4 Green s functions in time domain 5 5 Exercises 6 Green s functions and Feynman diagrams 6 1 The interaction picture 6 2 The time evolution operator 6 3 Perturbative expansion of causal Green's functions 6 4 Wick's theorem 6 5 Feynman diagrams 6 6 Feynman diagrams in energy space 6 7 Electronic self energy and Dyson's equation 6 8 Self consistent diagrammatic theory the Hartree Fock approximation 6 9 The Anderson model and the Kondo effect 6 10 Final remarks 6 11 Exercises 7 Nonequilibrium Green's functions formalism 7 1 The Keldysh formalism 7 2 Diagrammatic expansion in the Keldysh formalism 7 3 Basic relations and equations in the Keldysh formalism 7 4 Application of Keldysh formalism to simple transport problems 7 5 Exercises 8 Formulas of the electrical current exploiting the Keldysh formalism 8 1 Elastic current microscopic derivation of the Landauer formula 8 2 Current through an interacting atomic scale junction 8 3 Time dependent transport in nanoscale junctions 8 4 Exercises 9 Electronic structure I Tight binding approach 9 1 Basics of the tight binding approach 9 2 The extended Huckel method 9 3 Matrix elements in solid state approaches 9 4 Slater Koster two center approximation 9 5 Some illustrative examples 9 6 The NRL tight binding method 9 7 The tight binding approach in molecular electronics 9 8 Exercises 10 Electronic structure II density functional theory 10 1 Elementary quantum mechanics 10 2 Early density functional theories 10 3 The Hohenberg Kohn theorems 10 4 The Kohn Sham approach 10 5 The exchange correlation functionals 10 6 The basic machinery of DFT 10 7 DFT performance 10 8 DFT

in molecular electronics 10 9 Exercises 11 The conductance of a single atom 11 1 Landauer approach to conductance brief reminder 11 2 Conductance of atomic scale contacts 11 3 Conductance histograms 11 4 Determining the conduction channels 11 5 The chemical nature of the conduction channels of one atom contacts 11 6 Some further issues 11 7 Conductance fluctuations 11 8 Atomic chains parity oscillations in the conductance 11 9 Concluding remarks 11 10 Exercises 12 Spin dependent transport in ferromagnetic atomic contacts 12 1 Conductance of ferromagnetic atomic contacts 12 2 Magnetoresistance of ferromagnetic atomic contacts 12 3 Anisotropic magnetoresistance in atomic contacts 12 4 Concluding remarks and open problems 13 Coherent transport through molecular junctions I basic concepts 13 1 Identifying the transport mechanism in single molecule junctions 13 2 Some lessons from the resonant tunneling model 13 3 A two level model 13 4 Length dependence of the conductance 13 5 Role of conjugation in symbol electron systems 13 6 Fano resonances 13 7 Negative differential resistance 13 8 Final remarks 13 9 Exercises 14 Coherent transport through molecular junctions II test bed molecules 14 1 Coherent transport through some test bed molecules 14 2 Metal molecule contact the role of anchoring groups 14 3 Tuning chemically the conductance the role of side groups 14 4 Controlled STM based single molecule experiments 14 5 Conclusions and open problems 15 Single molecule transistors Coulomb blockade and Kondo physics 15 1 Introduction 15 2 Charging effects in transport through nanoscale devices 15 3 Single molecule three terminal devices 15 4 Coulomb blockade theory constant interaction model 15 5 Towards a theory of Coulomb blockade in molecular transistors 15 6 Intermediate coupling cotunneling and Kondo effect 15 7 Single molecule transistors experimental results 15 8 Exercises 16 Vibrationally induced inelastic current I experiment 16 1 Introduction 16 2 Inelastic electron tunneling spectroscopy IETS 16 3 Highly conductive junctions point contact spectroscopy PCS 16 4 Crossover between PCS and IETS 16 5 Resonant inelastic electron tunneling spectroscopy RIETS 16 6 Summary of vibrational signatures 17 Vibrationally induced inelastic current II theory 17 1 Weak electron phonon coupling regime 17 2 Intermediate electron phonon coupling regime 17 3 Strong electron phonon coupling regime 17 4 Concluding remarks and open problems 17 5 Exercises 18 The hopping regime and transport through DNA molecules 18 1 Signatures of the hopping regime 18 2 Hopping transport in molecular junctions experimental examples 18 3 DNA based molecular junctions 18 4 Exercises 19 Beyond electrical conductance shot noise and thermal transport 19 1 Shot noise in atomic and molecular junctions 19 2 Heating and heat conduction 19 3 Thermoelectricity in molecular junctions 20 Optical properties of current carrying molecular junctions 20 1 Surface enhanced Raman spectroscopy of molecular junctions 20 2 Transport mechanisms in irradiated molecular junctions 20 3 Theory of photon assisted tunneling 20 4 Experiments on radiation induced transport in atomic and molecular junctions 20 5 Resonant current amplification and other transport phenomena in ac driven molecular junctions 20 6 Fluorescence from current carrying molecular junctions 20 7 Molecular optoelectronic devices 20 8 Final remarks 20 9 Exercises 21 What is missing in this book Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1994-03-22 Molecular

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Molecular Electronic Devices Forrest L. Carter,1962

Molecular Electronics Ari Aviram, Mark A. Ratner, 1998 This volume explores the resurgence of interest in the field of molecular electronics in view of recent advances in such areas as molecular wires molecular components fabrication and assemblies of molecular scale devices and their wiring on surfaces It shows how molecular electronics offer scientists an opportunity to study and understand a new class of materials on the molecular level and in isolation while offering to engineers a new microelectronics technology Molecular Electronic Devices II Carter, 1987-08-28 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 Electronic Devices Forrest L. Carter,1982 Molecular Electronics James M. Tour, 2003 This book presents an in depth discussion on molecular electronics in an easy to understand manner aiming at chemists computer scientists surface scientists physicists and applied mathematicians Lighter overviews are provided for the science minded layperson and the high tech entrepreneur in this nanoscale science. The author has included a detailed synthetic chemistry treasure chest protocols of self assembling routes for bottom up fabrication atop silicon platforms representative current voltage and memory readouts from molecular devices and overviews of present architectural and mathematical approaches to programming molecular computing machines The investment and commercial insertion landscape is painted along with a Who in the molecular electronics business space Advice and forewarnings are provided in a practical yet witty manner for the aspiring academic corporate founder and the business CEO wannabe seeking to establish a high tech company while wading through the idiosyncratic morass of university personalities and university owned intellectual property Molecular <u>Electronics</u> 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 fabri cate 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 Divi sion 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 Single Molecule Electronics and Nanofabrication of the consequence of one person's crusade that of Forrest L Carter 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 Electronics .1985

Molecular Electronics P.I. Lazarev,2012-12-06 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 Organic Conductors, Superconductors and Magnets: From Synthesis to Molecular Electronics Lahcène Ouahab, Eduard Yagubskii, 2012-12-06 The book covers different aspects of the chemistry and physics of molecular materials including organic synthesis of specific organic donors and ligands organic metals and superconductors molecule based magnets multiproperty materials and organic inorganic hybrids The 17 chapters are written by some of the most authoritative authors in their field The two last chapters are devoted to molecular electronics and devices in particular the achievements and potential for applications An excellent work for all students and researchers in organic conductors superconductors and molecule based magnets

Nano and Molecular Electronics Handbook Sergey Edward Lyshevski,2018-10-03 There are fundamental and technological limits of conventional microfabrication and microelectronics Scaling down conventional devices and attempts

to develop novel topologies and architectures will soon be ineffective or unachievable at the device and system levels to ensure desired performance Forward looking experts continue to search for new paradigms to carry the field beyond the age of microelectronics and molecular electronics is one of the most promising candidates. The Nano and Molecular Electronics Handbook surveys the current state of this exciting emerging field and looks toward future developments and opportunities Molecular and Nano Electronics Explained Explore the fundamentals of device physics synthesis and design of molecular processing platforms and molecular integrated circuits within three dimensional topologies organizations and architectures as well as bottom up fabrication utilizing quantum effects and unique phenomena Technology in Progress Stay current with the latest results and practical solutions realized for nanoscale and molecular electronics as well as biomolecular electronics and memories Learn design concepts device level modeling simulation methods and fabrication technologies used for today s applications and beyond Reports from the Front Lines of Research Expert innovators discuss the results of cutting edge research and provide informed and insightful commentary on where this new paradigm will lead The Nano and Molecular Electronics Handbook ranks among the most complete and authoritative guides to the past present and future of this revolutionary area of theory and technology *Molecular Electronics: Bio-sensors and Bio-computers* L. Barsanti, V. Evangelista, P. Gualtieri, V. Passarelli, S. Vestri, 2012-12-06 How fast and powerful can computers become Will it be possible someday to create artificial brains that have intellectual capabilities comparable to those of human beings The answers to these questions depend to a very great extent on a single factor how small and dense we can make computer circuits Very recently scientists have achieved revolutionary advances that may very well radically change the future of computing There are significant advantages to using biological molecules in a new computational paradigm since nature has solved similar problems to those encountered in harnessing organic molecules to perform data manipulation Biomolecules could be used as photonic devices in holography as spatial light modulators in neural network optical computing as nonlinear optical devices and as optical memories Such computers may use a billion times less energy than electronic computers while storing data in a trillionth of the space while also being highly parallel Research projects implemented by national and international groups have produced a large amount of data from multidisciplinary work ranging from physics and engineering to chemistry and biology

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Table of Contents Molecular Electronic Devices

- 1. Understanding the eBook Molecular Electronic Devices
 - The Rise of Digital Reading Molecular Electronic Devices
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Molecular Electronic Devices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Molecular Electronic Devices
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Molecular Electronic Devices
 - Personalized Recommendations
 - Molecular Electronic Devices User Reviews and Ratings
 - Molecular Electronic Devices and Bestseller Lists
- 5. Accessing Molecular Electronic Devices Free and Paid eBooks

- Molecular Electronic Devices Public Domain eBooks
- Molecular Electronic Devices eBook Subscription Services
- Molecular Electronic Devices Budget-Friendly Options
- 6. Navigating Molecular Electronic Devices eBook Formats
 - o ePub, PDF, MOBI, and More
 - Molecular Electronic Devices Compatibility with Devices
 - Molecular Electronic Devices Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Molecular Electronic Devices
 - Highlighting and Note-Taking Molecular Electronic Devices
 - Interactive Elements Molecular Electronic Devices
- 8. Staying Engaged with Molecular Electronic Devices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Molecular Electronic Devices
- 9. Balancing eBooks and Physical Books Molecular Electronic Devices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Molecular Electronic Devices
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Molecular Electronic Devices
 - Setting Reading Goals Molecular Electronic Devices
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Molecular Electronic Devices
 - Fact-Checking eBook Content of Molecular Electronic Devices
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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