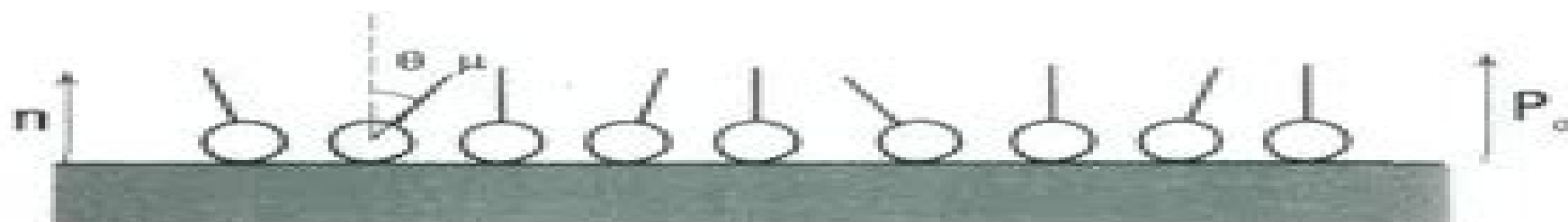


The Physical Properties of Organic Monolayers



*Mitsumasa Iwamoto
Wu Chen-Xu*

World Scientific

Physical Properties Of Organic Monolayers

Manuel P. Soriaga



Physical Properties Of Organic Monolayers:

The Physical Properties Of Organic Monolayers Mitsumasa Iwamoto, Chen-xu Wu, 2001-01-04 This book provides a fundamental physical picture of various phenomena occurring in organic monolayers dealing with dielectric elastic and electronic properties The dielectric properties are discussed in terms of orientational order parameters which are used to interpret the dielectric spectrum observed through Maxwell displacement current measurement and optical second harmonic generation measurement The elastic theory of organic monolayers is based on that of liquid crystals and emphasis is placed on the interfacial effect when discussing the electronic properties of organic monolayers The discussion in the book mainly concerns the structure dependence dipole moment and thickness dependence interfacial effect for various phenomena occurring in organic monolayers

The Physical Properties of Organic Monolayers Mitsumasa Iwamoto, Chen-Xu Wu, 2001 Ch 5 Dielectric relaxation phenomena 5 1 Rotational Debye Brownian motion model 5 2 Relaxation process at an air water interface 5 3 Determination of dielectric relaxation time 5 4 Summary References ch 6 Chiral phase separation 6 1 Elastic energy and Bragg Williams mixing energy 6 2 Chiral phase separation 6 3 Discrete one dimensional CPS solution 6 4 Summary 6 5 Appendix References ch 7 Nonlinear effects 7 1 SOS in orientational order parameters for C symbol monolayers 7 2 Chirality representation 7 3 SHG CD effect 7 4 SHG MDC measuring system 7 5 Quantum mechanical analysis of photoisomerization 7 6 Summary References ch 8 Thermally stimulated current 8 1 Thermally stimulated current 8 2 Depolarization due to thermal stimulation 8 3 TSC experiment 8 4 Phase transition 8 5 Thermodynamics approach to monolayers 8 6 Summary References ch 9 Electronic properties at MIM interfaces 9 1 Tunneling current and electronic device applications 9 2 Nanometric interfacial electrostatic phenomena in ultrathin films 9 3 I V characteristic 9 4 Summary References

Physical and Chemical Properties of Organic Monolayers on Silicon Oxide and Gold Surfaces Ryan Charles Major, 2003

Nanoscale Interface for Organic Electronics Mitsumasa Iwamoto, Young-Soo Kwon, Takhee Lee, 2011 This book treats the important issues of interface control in organic devices in a wide range of applications that cover from electronics displays and sensors to biorelated devices This book is composed of three parts Part 1 Nanoscale interface Part 2 Molecular electronics Part 3 Polymer electronics

Maxwell Displacement Current And Optical Second-harmonic Generation In Organic Materials: Analysis And Application For Organic Electronics Mitsumasa Iwamoto, Dai Taguchi, 2021-06-22

The probing and modeling of carrier transport in materials is a fundamental research subject in electronics and materials science According to the Maxwell electromagnetic field theory there are two kinds of currents i e conduction current and Maxwell displacement current MDC The conduction current flows when electronic charges e g electrons and holes are conveyed in solids whereas MDC is the transient current that is generated due to the change of electric flux density The source of conductive current is charged particles i e electrons holes ions etc and the source of MDC is also the charged particles It is therefore anticipated that we can probe and model carrier transport in materials in terms of

MDC In other words we can find a novel way for modeling and analyzing materials on the basis of Dielectric Physics Approach on focusing dielectric polarization phenomena Maxwell Displacement Current and Optical Second Harmonic Generation are basically dielectric phenomena The aim of this book is to show the dielectric physics approach for the study of molecular materials and organic electronics devices related to carrier transport and dielectric polarization on focusing Maxwell Displacement Current and Optical Second Harmonic Generation in Organic Materials from viewpoints of Analysis and Application for Organic Electronics

Nanofabrication Yoshitake Masuda, 2011-12-22 We face many challenges in the 21st century such as sustainably meeting the world's growing demand for energy and consumer goods I believe that new developments in science and technology will help solve many of these problems Nanofabrication is one of the keys to the development of novel materials devices and systems Precise control of nanomaterials nanostructures nanodevices and their performances is essential for future innovations in technology The book Nanofabrication provides the latest research developments in nanofabrication of organic and inorganic materials biomaterials and hybrid materials I hope that Nanofabrication will contribute to creating a brighter future for the next generation

Comprehensive Nanoscience and Technology, 2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors

willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other

Structural and Morphological Evolution in Metal-Organic Films and Multilayers Alokmay Datta, Smita Mukherjee, 2015-10-15 Structural and Morphological Evolution in Metal Organic Films and Multilayers presents major results of the authors work carried out on Langmuir monolayers and Langmuir Blodgett multilayers The authors address two important questions Are metal organic monolayer systems more like solids or more like liquids Does a two dimensional system have diffe

Tailoring Surfaces Nicholas D. Spencer, 2011 The focus of the book is the modification of surfaces to tailor them for a specific purpose Using this method of surface modification materials chosen for their bulk properties tensile strength temperature stability density price can be optimized for any particular application which can lead to improved hardness biological inertness or activity corrosion resistance low or high friction or adhesion water repellency or wettability or catalytic activity The works of the author many of his crucial papers are included touches upon these surface properties and spans fields including catalysis analytical surface science self assembled monolayers tribology biomaterials superhydrophobicity and polymer coatings

Thin Films: Preparation, Characterization, Applications Manuel P. Soriaga, 2002-09-30 This book is about thin films what they are how they are prepared how they are characterized and what they are used for The contents of this book not only showcase the diversity of thin films but also reveals the commonality among the work performed in a variety of areas The chapters in this volume are based on invited papers presented by prominent researchers in the field at a Symposium on Thin Films Preparation Characterization Applications at the 221st National Meeting of the American Chemical Society held in San Diego California The coverage of the symposium was extensive topics ranged from highly ordered metal adlayers on well defined electrode surfaces to bio organic films on non metallic nanoparticles An objective of this book is for the readers to be able to draw from the experience and results of others in order to improve and expand the understanding of the science and technology of their own thin films systems

Kinetics of Electron Transfer Through Organic Monolayers on Electrodes David B. Robinson, 2002

Encyclopedia of Physical Organic Chemistry, 6 Volume Set Zerong Wang, Uta Wille, Eusebio Juaristi, 2017-04-17 Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry POC methodology and techniques It puts POC a classical and fundamental discipline of chemistry into the context of modern and dynamic fields like biochemical processes materials science and molecular electronics Covers basic terms and

theories into organic reactions and mechanisms molecular designs and syntheses tools and experimental techniques and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods software packages and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of Physical Organic Chemistry has won the 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE The PROSE Awards recognize the best books journals and digital content produced by professional and scholarly publishers Submissions are reviewed by a panel of 18 judges that includes editors academics publishers and research librarians who evaluate each work for its contribution to professional and scholarly publishing You can find out more at proseawards.com Also available as an online edition for your library for more details visit Wiley Online Library

Organic Nanomaterials Tomas Torres, Giovanni Bottari, 2013-10-14 Discover a new generation of organic nanomaterials and their applications Recent developments in nanoscience and nanotechnology have given rise to a new generation of functional organic nanomaterials with controlled morphology and well defined properties which enable a broad range of useful applications This book explores some of the most important of these organic nanomaterials describing how they are synthesized and characterized Moreover the book explains how researchers have incorporated organic nanomaterials into devices for real world applications Featuring contributions from an international team of leading nanoscientists Organic Nanomaterials is divided into five parts Part One introduces the fundamentals of nanomaterials and self assembled nanostructures Part Two examines carbon nanostructures from fullerenes to carbon nanotubes to graphene reporting on properties theoretical studies and applications Part Three investigates key aspects of some inorganic materials self assembled monolayers organic field effect transistors and molecular self assembly at solid surfaces Part Four explores topics that involve both biological aspects and nanomaterials such as biofunctionalized surfaces Part Five offers detailed examples of how organic nanomaterials enhance sensors and molecular photovoltaics Most of the chapters end with a summary highlighting the key points References at the end of each chapter guide readers to the growing body of original research reports and reviews in the field Reflecting the interdisciplinary nature of organic nanomaterials this book is recommended for researchers in chemistry physics materials science polymer science and chemical and materials engineering All readers will learn the principles of synthesizing and characterizing new organic nanomaterials in order to support a broad range of exciting new applications **JJAP** ,2004 **Japanese Journal of Applied Physics** ,2005

Dekker Encyclopedia of Nanoscience and Nanotechnology James A. Schwarz, Cristian I. Contescu, Karol Putyera, 2004

Scientific and Technical Aerospace Reports ,1989 *International Journal of the Society of Materials Engineering for Resources* ,2006 **The Modifications of Silicon Surfaces by Organic Monolayers and Their Applications** Yongseok Jun, 2004 **Energy Research Abstracts** ,1988

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