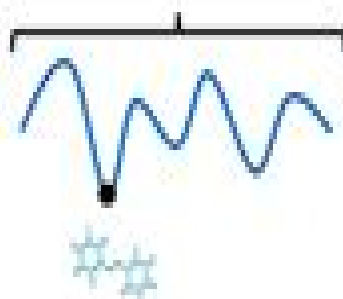


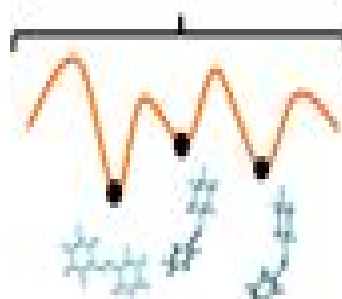
Dynamic effects

Single geometry
(QM)



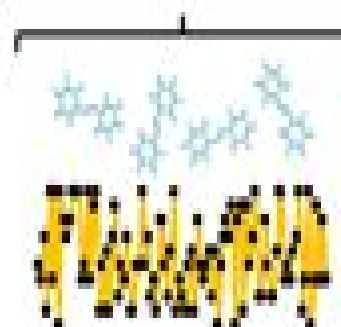
Lowest-energy structure
no dynamical effects

Maxwell-Boltzmann average
(QM-MB)



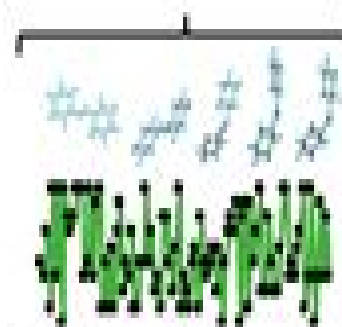
Weighted sum of few conformers
static molecular distortions

Rigid-Body Monte-Carlo
(RB-MC)



Set of uncorrelated snapshots
dynamic positional disorder

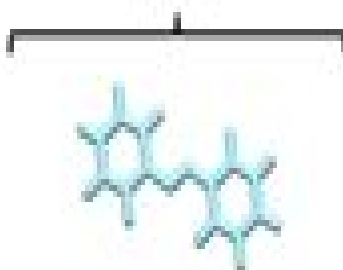
Molecular dynamics
(MD)



Set of uncorrelated snapshots
*dynamic positional disorder
and molecular distortions*

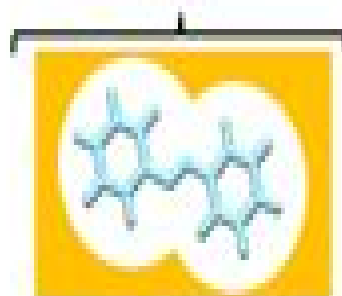
Environment effects

Gas phase
(none)



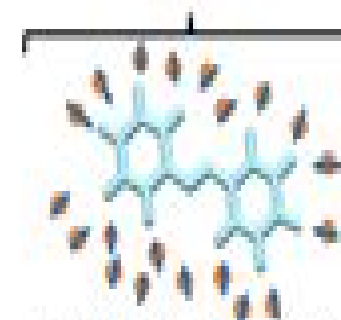
Isolated molecule
no environment effects

Polarizable Continuum Model
(PCM)



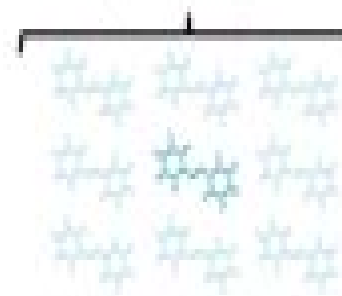
Implicit environment
polarization effects

Electrostatic Embedding
(EE)



Electrostatic environment
system-specific polarization effects

Explicit environment
(sTD-DFT)



Full quantum calculation
*mutual polarization effects
and intermolecular couplings*

Organic Nonlinear Optical Materials

S. Miyata



Organic Nonlinear Optical Materials:

Organic Nonlinear Optical Materials Ch. Bosshard, J. Hulliger, M. Florsheimer, P. Gunter, 2001-08-24 Organic Nonlinear Optical Materials provides an extensive description of the preparation and characterization of organic materials for applications in nonlinear and electro optics The book discusses the fundamental optimization and practical limitations of a number of figures of merit for various optical parameters and gives a clinical appraisal of the potential of organic materials for applicators in optical technology Among the topics addressed are the basic molecular design of nonlinear optical chromophores fundamentals and novel techniques of organic crystal growth preparation and characterization of Langmuir Blodgett and polymer films experimental methods for determining microscopic and macroscopic optical properties Also included is a discussion of first results of the photorefractive effect in organic crystals and the potential of organics for photorefractive applications as well as an extensive review of published linear and nonlinear optical measurement of organic materials

Characterization Techniques and Tabulations for Organic Nonlinear Optical Materials

Kuzyk, 1998-05-20 Furnishes table of nonlinear optical properties of organic substances as well as experimental procedures for measuring the nonlinearity of the elements tabulated including composite materials offering support for scientists and engineers involved in characterizing optimizing and producing materials for manufacturing optical devices

Organic Nonlinear Optical Materials and Devices: Volume 561 B. Kippelen, H. S. Lackritz, R. O. Claus, 1999-08-11 The field of organic optical materials is rapidly growing and advances are being made both in attaining a deeper understanding of device phenomena and in designing improved materials for thin films fibers and waveguides This book offers an interdisciplinary discussion of research on electronic and photonic devices made with organic and polymeric materials The 1999 MRS Spring Meeting was highlighted by several major advances in fields ranging from nonlinear absorbers and electro optic polymers to photorefractive polymers organic transistors and electroluminescent materials and devices for displays This book highlights developments in materials chemistry and physics relevant to such devices and strikes a balance between basic science and technology Topics include nonlinear optical materials photorefractive polymers and electronic and light emitting materials

Organic Nonlinear Optical Materials S. Okada, H. Nakanishi, 1986

Organic Nonlinear Optical Materials Manfred Eich, Mark G. Kuzyk, 1999 This work brings together a selection of papers dealing with various aspects of organic nonlinear optical materials

Light Wave Manipulation Using Organic Nonlinear Optical Materials

Seizo Miyata, Hiroyuki Sasabe, 2000-12-21 This monograph contains all major achievements and future insights in the field of optical communication systems It covers the molecular design and synthesis of new organic compounds processing processing of materials and their characterization due to novel techniques device fabrications and assessment of optical devices in display and information processing

Synthetic Study of New Organic Nonlinear Optical Materials

Jen-Tai Su, 1993

Study of Novel Organic Nonlinear Optical Materials

Burl Henry Peterson, 2003

Development of

Organic Nonlinear Optical Materials, 1992 The design of organic Polymers as active mediums for nonlinear optics has attracted much attention because their nature of versatility in synthetic chemistry and in fabrication A series of new side chain polymers were synthesized and characterized for the second and third order NLO applications Linear copolymers containing maleic anhydride as an active functional group on the main chain were prepared in this work The maleic anhydride group reacts by ring opening esterification with an appropriate alcohol containing an NLO functionality These copolymers were also found to be suitable for branching or crosslinking reactions with alpha omega diols A series of substituted silicon and aluminum phthalocyanines has been synthesized to study their third order nonlinear responses A nitro amino substituted aluminum phthalocyanine has been made along with mixtures of benzo substituted silicon phthalocyanines A synthetic route has been investigated to directly give donor acceptor phthalocyanines To increase mechanical property of phthalocyanine compounds copolymers with MMA have been synthesized and characterized All of the copolymers show excellent film forming characteristics

Design, Synthesis and Characterization of Novel Organic Nonlinear Optical Materials Chengzeng Xu, 1993

Nonlinear Optical Effects in Organic Polymers J. Messier, P. Prasad, D. Ulrich, 2012-12-06 Photonics the counterpart of electronics involves the usage of Photons instead of electrons to process information and perform various switching operations Photonics is projected to be the technology of the future because of the gain in speed processing and interconnectivity of network Nonlinear optical processes will play the key role in photonics Where they can be used for frequency conversion optical switching and modulation Organic molecules and polymers have emerged as a new class of highly promising nonlinear optical materials Which has captured the attention of scientists world wide The organic systems offer the advantage of large nonresonant nonlinearities derived from the 1T electrons contribution femtosecond response time and the flexibility to modify their molecular structures In addition organic polymers can easily be fabricated in various device structures compatible with the fiber optics communication system The area of nonlinear optics of organic molecules and polymers offers exciting opportunities for both fundamental research and technologic development It is truly an interdisciplinary area This proceeding is the outcome of the first NATO Advanced Research Workshop in this highly important area The objective of the workshop was to provide a forum for scientists of varying background from both universities and industries to come together and interface their expertise The scope of the workshop was multidisciplinary with active participations from Chemists physicists engineers and materials scientists from many countries

Nonlinear Optics S. Miyata, 2012-12-02 The field of nonlinear optics developed gradually with the invention of lasers After the discovery of second harmonic generation in quartz many other interesting nonlinear optical processes were rapidly discovered Simultaneously theoretical programmes for the understanding of nonlinear optical phenomena were stimulated in accordance to develop structure property relationships In the beginning research advances were made on inorganic ferroelectric materials followed by semiconductors In the 1970 s the importance of organic materials was realised because of

their nonlinear optical responses fast optical response high laser damage thresholds architectural flexibility and ease of fabrication At present materials can be classified into three categories inorganic ferroelectrics semiconductors and organic materials Advances have also been made in quantum chemistry approaches to investigate nonlinear optical susceptibilities and in the development of novel nonlinear optical devices Generally inorganic and organic nonlinear optical materials and their related optical processes are reported in separate meetings This book collects for the first time papers covering the recent developments and areas of present research in the field of nonlinear optical materials

Nonlinear Optics of Organic Molecules and Polymers Hari Singh Nalwa, Seizo Miyata, 1996-12-20 This book presents an excellent overview of the exciting new advances in nonlinear optical NLO materials and their applications in emerging photonics technologies It is the first reference source available to cover every NLO material published through 1995 All theoretical approaches measurement techniques materials technologies and applications are covered With more than 1 800 bibliographic citations 324 figures 218 tables and 812 equations this book is an invaluable reference source for graduate and undergraduate students researchers scientists and engineers working in academia and industries in chemistry solid state physics materials science optical and polymer engineering and computational science

Design of Organic Nonlinear Optical Materials Margaret C. Etter, MINNESOTA UNIV MINNEAPOLIS DEPT OF CHEMISTRY., 1990 This project deals with a new approach to designing organic nonlinear optical materials for second harmonic generation based on the use of hydrogen bonding to organize molecules into acentric arrays Since crystal engineering is not a well developed science we can not yet predict crystal packing patterns for even simple organic molecules For organic nonlinear optical materials this dilemma means that even the most promising organic molecule may have poor to nonexistent nonlinear optical properties because it forms centric crystals or crystals with unfavorable molecular dipole alignments Our work is aimed at gaining control over the crystal growth process by understanding the molecular basis for aggregation and nucleation Using hydrogen bonds as one of the strongest most prevalent and most easily identified intermolecular interactions we have found that we can predict the primary structure of hydrogen bonded aggregates based on functional group complementarity and stereoelectronic considerations We use this information to choose or synthesize molecules with hydrogen bonding groups positioned on the molecules so that acentric hydrogen bonded aggregates must necessarily form JES

Nonlinear Optical Effects and Materials Peter Günter, 2012-12-06 It is now well established that a unique feature of coherent optical beams is their ability to transmit process store and interconnect in parallel a large number of high bandwidth information channels However although these techniques possess great potential their development depends critically on the nonlinear optical effects used and on the availability of nonlinear optical materials that work at high speed and low incident optical power At present these requirements are stimulating a great deal of research in materials science and are challenging existing technologies in particular high speed electronics This volume devoted to nonlinear optical effects and materials presents a detailed account

of selected topics in inorganic and organic materials research The status of organic crystals and polymers for nonlinear optics is critically compared with their inorganic counterparts The preparation techniques and a description of the methods used to characterize the nonlinear optical effects relevant for device applications are dealt with as well as a theoretical description of the nonlinear optical electro optical and photorefractive effects observed The main concepts and potential applications are outlined and developed in the various chapters of this book This collection of articles provides a broad survey of selected research topics in organic and inorganic nonlinear optics *Nonlinear Optical Effects and Materials*

Peter Gunter, 2000-03-06 **Organic Nonlinear Optical Materials and Devices Symposium Held in San Francisco, California on 6-9 April 1999**

B. Kippelen, H. S. Lackritz, R. O. Claus, MATERIALS RESEARCH SOCIETY WARRENDALE PA., 1999 The purpose of this symposium was to provide an interdisciplinary forum for the discussion of recent advances in research on electronic and photonic devices made with organic and polymeric materials The field of organic optical materials is rapidly growing and new advances are being made both in attaining a deeper understanding of device phenomena and in designing improved materials for thin films fibers and waveguides The symposium provided a highly interactive forum for an update in the connected areas of photonics with organic materials The Meeting was highlighted by several major advances in various fields ranging from nonlinear absorbers and electro optic polymers to photorefractive polymers organic transistors and electroluminescent materials and devices for displays The symposium highlighted developments in materials chemistry and physics relevant to such devices and struck a balance between basic science and technology *An Organic Nonlinear Optical Material*, 1993

Organic Molecules for Nonlinear Optics and Photonics J. Messier, F. Kajzar, P. Prasad, Photonics is being labelled by many as the technology for the 21st century Because of the structural flexibility both at the molecular and bulk levels organic materials are emerging as a very important class of nonlinear optical materials to be used for generating necessary nonlinear optical functions for the technology of photonics Since the last NATO advanced research workshop on Polymers for Nonlinear Optics held in June 1988 at Nice Sophia Antipolis France there has been a tremendous growth of interest worldwide and important development in this field Significant progress has been made in theoretical modeling material development experimental studies and device concepts utilizing organic materials These important recent developments provided the rationale for organizing the workshop on Organic Materials for Nonlinear Optics and Photonics which was held in La Rochelle France in August 1990 This proceeding is the outcome of the workshop held in La Rochelle The objective of the workshop was to bring together scientists and engineers of varied backgrounds working in this field in order to assess the current status of this field by presenting significant recent developments and make recommendations on future directions of research The workshop was multidisciplinary as it had contributions from chemists physicists materials scientists and device engineers The participants were both from industries and universities The workshop included plenary lectures by leading international scientists in this field contributed research papers and a poster session Panel discussion

groups were organized to summarize important developments and to project future directions *Organic and Polymeric Nonlinear Optical Materials; a Topical Workshop Held in Virginia Beach, Virginia on May 16-19, 1988* Diana J. Bergi, Sukant K. Tripathy, POLYTECHNIC UNIV BROOKLYN NY., 1988 At this Workshop on Organic and Polymeric Nonlinear Optical Materials the latest developments in the areas of theory characterization synthesis molecular assemblies and potential device applications for organic and polymeric materials exhibiting nonlinear optical behavior are discussed Topics discussed include An Overview on Nonlinear Optical Polymer Systems and Devices Nonlinear Optical Effects in Polymeric Films Recent Advances in Nonlinear Optical Properties of Organic and Polymer Systems Anisotropy of the Third Order Nonlinear Optical Susceptibility in Conjugated Polymers Nonlinear Optics in Ordered Molecular Systems Several Series of Novel Polydiacetylenes for Nonlinear Optics Resonance Effects in Cubic Hyper polarisabilities of Conjugated Polymers Nonlinear Optical Measurements on Liquid Crystals and Quasi Liquid Crystals Optical Nonlinearity Molecules Assemblies and Wave Phenomena Preparation and Characterization of Organo Transition Metal Langmuir Blodgett Films Advances in Organic Electro Optic Devices Organic Nonlinear Optical Devices and Material Considerations High Resolution Laser Spectroscopy in Polymers aw

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