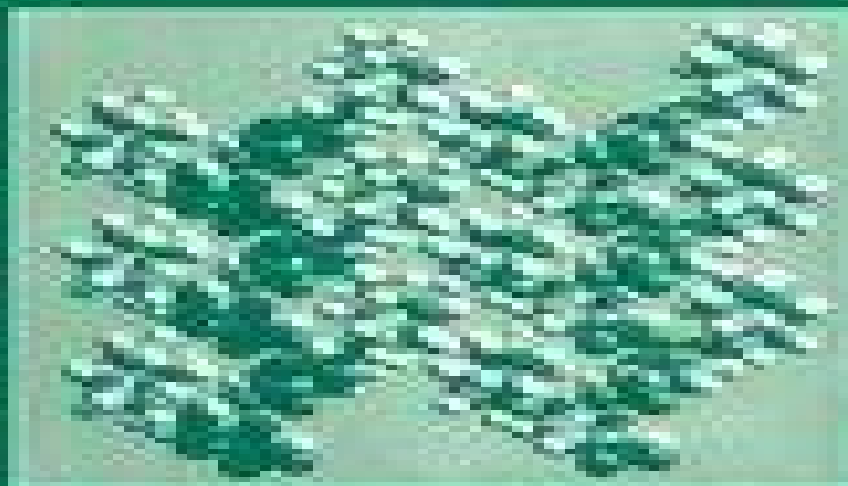


Organic Nonlinear Optical Materials



C.H. Boschard, K. Sutter,
P.H. Plesch, J. Hudinger,
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Organic Materials For Non Linear Optics

D.S. Chemla



Organic Materials For Non Linear Optics:

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 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.

Nonlinear Optics of Organic Molecules and Polymers Hari Singh Nalwa, Seizo Miyata, 2020-07-09. The field of nonlinear optics emerged three decades ago with the development of the first operating laser and the demonstration of frequency doubling phenomena. These milestone discoveries not only generated much interest in laser science but also set the stage for future work on nonlinear optics. 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

Linear and Nonlinear Optics of Organic Materials XI, 2011 *Organic Materials for Non-linear Optics II* R. A. Hann, David Bloor, 1991 The proceedings of a symposium on recent developments in the field of non linear optics which included contributions from academia industry and government research projects The main topics discussed included small organic molecules metal organic compounds polymers and devices **Organic Materials for Non-linear Optics** R. A. Hann, David Bloor, 1989 This publication represents the proceedings of the Conference on Organic Materials for Non Linear Optics held in Oxford in June 1988 It was a truly international conference attended by over 160 delegates from academia industry and government research establishments who represented a wide range of scientific disciplines and included organic and organometallic chemists theorists and experimental physicists and device engineers *Linear and Nonlinear Optics of Organic Materials X*, 2010 Organic Materials for Non-Linear Optics III Geoffrey J. Ashwell, David Bloor, 1993 This book maintains the international interdisciplinary approach of the previous two volumes and is important reading for workers in industry or academia worldwide Organic Materials for Non-linear Optics R. A. Hann, 1991 **Linear and**

Nonlinear Optics of Organic Materials IX, 2009 **Organic Materials for Second-order Nonlinear Optics** Hong-Cheu Lin, 1992 The main objective of this research has been to establish the potential of nonlinear optics NLO to study relationships between chemical structure and properties of organic materials Using properly constructed molecules or photoactive dopants phenomena such as molecular relaxation dipolar ordering poling dynamics and intermolecular forces in organic materials were investigated A second objective has been to identify mechanisms to optimize and stabilize second harmonic generation SHG signals through materials processing techniques This investigation includes studies in three main topics nonlinear optical properties of magnetically aligned alloys of nematic polymers and organic dyes two dimensional polymers and novel single crystal films that exhibit zero field SHG The second order nonlinear optical response of a solidified nematic polymer containing a photoactive organic dye as a dissolved solute or as phase separated crystals was investigated upon exposure to a magnetic field The magnetically aligned nematic alloy can be regarded as an Ising like medium in which the nematic and the magnetic fields confine the dipolar dye molecules along directions parallel or anti parallel to the external DC field An increase of the second order susceptibility by a factor of five in an idealized system has been predicted by theory Relative to theoretical predictions magnetically induced order in the nematic solvent was found to result in second harmonic signals which are 6 9 times more intense and the second order susceptibility of the system triples Due to the randomization of polar ordering after poling the stability of SHG activity in the guest host system was difficult to maintain Thus a special

molecular architecture i.e. a two dimensional 2D polymer was investigated to address the stability problem. This investigation revealed that a chiral oligomer can be transformed into a two dimensional structure through a dual chemical reaction. Homochiral recognition among strongly dipolar cyano groups was found to play an important role in the transformation of the oligomer to a 2D polymer. In contrast to its analogous comb polymer synthesized by free radical polymerization, this 2D polymer shows remarkable stability in SHG activity. Thermally stimulated discharge TSD results suggest that higher discharge currents correlate with higher values of χ_{chisp}^2 . Some derivative compounds of the 2D precursor exhibited enormous and stable SHG activity without poling, suggesting that the molecules crystallize into highly polar noncentrosymmetric structures. Through a series of analyses for the relationship between the chemical structure and SHG activity, a novel way to prepare promising SHG films was developed in one of the derivative compounds. The origin of this extraordinary NLO property was due to the formation of an active phase possibly consisting of aligned single crystals. This study shows the importance of materials processing and molecular tailoring in the development of NLO active materials.

Organic Materials for Non Linear Optics. International Symposium ; 2 ,1991 *Organic Materials for Non Linear Optics. International Symposium ; 3 ,1993* *Organic Materials for Non-linear Optics* Phillip Andrew Norman,1996 Linear and Nonlinear Optics of Organic Materials ,2004 Linear and Nonlinear Optics of Organic Materials X Manfred Eich,2010
Includes Proceedings Vol 7821 **Nonlinear Optical Properties of Organic Materials VII** ,1994 Organic Materials for Non-linear Optics 11 D. Bloor,R. A. Hann,1991 **Linear and Nonlinear Optics of Organic Materials XI** Jean-Michel Nunzi,2011 Includes Proceedings Vol 7821 **Nonlinear Optical Properties of Organic Molecules and Crystals V1** D.S. Chemla,2012-12-02 Nonlinear Optical Properties of Organic Molecules and Crystals Volume 1 discusses the nonlinear optical effects in organic molecules and crystals providing a classical distinction between quadratic and cubic processes. This book begins with a general overview of the basic properties of organic matter followed by a review on the benefits derived from quantum chemistry based models and growth and characterization of high quality bulk organic crystals and waveguided structures. A case study focusing on a specific material namely urea which exemplifies a situation in which transparency in the UV region has been purposely traded for nonlinear efficiency is also deliberated. This text concludes with a description of a type of trade off between the unpredictable orientation of molecules in crystalline media, polarity of liquid crystalline structures and dominant electronic contribution to the electro optic effect. This publication is beneficial to solid state physicists and chemists concerned with nonlinear optical properties of organic molecules and crystals.

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