

NONLINEAR OPTICAL AND ELECTROACTIVE POLYMERS

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Nonlinear Optical And Electroactive Polymers

J. Messier, F. Kajzar, P. Prasad



Nonlinear Optical And Electroactive Polymers:

Nonlinear Optical and Electroactive Polymers Paras N. Prasad, D.R. Ulrich, 2012-12-06 This treatise is a compendium of papers based on invited talks presented at the American Chemical Society Symposium on Electroactive Polymers which covered nonlinear optical polymers and conducting polymers the common denominator being the correlated pi electron structures The improved understanding of the consequences of pi electron delocalization upon nonlinear optical properties and charge carrier dynamics has laid the foundation for the rapid development and application of the electroresponse of conjugated polymers As a result the area of electroactive and nonlinear optical polymers is emerging as a frontier of science and technology It is a multidisciplinary field that is bringing together scientists and engineers of varied background to interface their expertise The recent explosion of interest in this area stems from the prospect of utilizing nonlinear optical effects for optical switching and logic operations in optical computing optical signal processing optical sensing and optical fiber communications Polymers and organic are rapidly becoming one of the major material classes for nonlinear optical applications along with multiple quantum wells ferroelectrics and other oxides and direct band gap semiconductors The reasons for this lie in the unique molecular structures of polymers and organics and the ability to molecularly engineer the architecture of these structures through chemical synthesis

Nonlinear Optical and Electroactive Polymers Paras N. Prasad, Donald Ulrich, 1988 **Atomic and Molecular Nonlinear Optics: Theory, Experiment and Computation** G. Maroulis, T. Bancewicz, B. Champagne, 2011-05-27 The papers collected in this volume in honor of the late Stanislaw Kielich cover an impressive range of modern subjects in molecular science These subjects include among others the nonlinear optics of molecules new approaches to the electronic structure of large molecules the properties of carbon nanotubes fluorescence polarization spectroscopy computational studies of systems of fundamental interest to collision induced spectroscopy the simulation of fluids NLO materials chemical bonding in complex molecules the NLO properties of functionalized DNA and the magnetic properties of molecular assemblies Written by eminent specialists the papers should offer valuable guidance to a wide community of graduate students and researchers

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 1970s 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

The Electronic Characterization of Several Nonlinear Optical and Electroactive Polymers Arthur Nicholas Bain,1991

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 expertize The scope of the workshop was multidisciplinary with active participations from Chemists physicists engineers and materials scientists from many countries

Organic Thin Films for Waveguiding Nonlinear Optics F. Kajzar,1996-10-15 First published in 1996 Routledge is an imprint of Taylor Francis an informa company

Electrooptics Jose Manuel Cabrera,Fernando Agullo-Rueda,2012-12-02 This comprehensive text provides an understanding of the physical phenomenon behind electrooptics It describes in detail modern electrooptic materials and operative physical mechanisms and devotes a full chapter to the new materials engineering that is contributing to the development of low dimensional systems The book also reviews device applications in both bulk and waveguide technologies Provides extensive coverage in a self contained format and consequently useful to beginners as well as specialists Includes the most current information Features many tables and illustrations to facilitate understanding

Organic Molecules for Nonlinear Optics and Photonics J. Messier,F. Kajzar,P. Prasad,2012-12-06 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 Opticsheld 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

Poled Polymers and Their Applications to SHG and EO Devices Seizo Miyata, Hiroyuki Sasabe, 2020-12-17 Poled polymers doped with nonlinear optically active chromophores combine the large second order nonlinearity of the dopant dye molecules with the optical quality of the polymer The material design flexibility afforded to doped polymers makes them attractive in a large variety of devices and applications This book addresses the critical science and technology issues in the development and application of poled polymers with an emphasis on the stabilization of poled polymers and their special applications to second harmonic generation SHG and electro optic EO devices

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