

Optical power limiting with photoinduced anisotropy of azobenzene films

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We study the power-limiting properties of photoanisotropic azobenzene films with low-power lasers. The *trans-cis* photoisomerization and molecular reorientation of azobenzene molecules induced by polarized laser beams result in intensity-dependent anisotropic effects. Consequently, the transmittance of the input beam that passes through the film between two crossed polarizers becomes enhanced at low intensities and clamped at high intensities. The limiting threshold is adjustable by changing the intensity of excitation beam. © 2003 Optical Society of America

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1. Introduction

The rapid development of laser technology has made portable laser systems with high power and energy available. The lasers are widely used for many applications and have greatly advanced scientific research. As they are used everywhere, the odds of a laser beam accidentally hitting a person are increasing. Even low-power lasers can damage human eyes or photosensors. As such, studies of optical power limiting are receiving a lot of interest. Several optical techniques with various materials including inorganic, organic, and biological molecules have been used for such applications. Nonlinear absorption effects including excited-state absorption,¹ reverse saturable absorption,² and multiphoton absorption^{3–5} are widely investigated with high-power pulsed lasers in both theory and experiment. Light scattering is also used to limit the optical power when a strong beam is incident on some materials,^{6,7} and it can enhance the nonlinear absorption. Another important nonlinear optical effect used for the power

limiting is beam diffusing, which originates from the change of spatial distribution of the refractive index and manifests as self-defocusing,⁸ beam fanning (diffusive photovoltaic thermal effects),⁹ and the Kerr effect.¹⁰ The filtering features associated with the holographic technique^{11,12} and photonic bandgap materials^{13,14} are also useful for power-limiting applications. Recently, polarization rotation in resonant Faraday media sandwiched between crossed polarizers¹⁵ and in bacteriorhodopsin materials placed between a pair of parallel polarizers¹⁶ has been studied theoretically and experimentally and could be used for optical limiting applications. These polarization rotation techniques may offer many advantages, such as low-fluence threshold, high-intensity range, and ease of improvement with new materials for practical applications, particularly for protecting human eyes and sensitive optical sensors that can be damaged by even low-power laser beams. In this paper we present a study on photoinduced anisotropic effects of azobenzene polymer films and its application to power limiting. The experimental results we obtained with the crossed polarizer arrangement illustrate clamping close to that of an ideal optical limiter.

2. Experiments

A. Sample Film Preparation and Optical Characteristics

An azobenzene material of 4-dimethylaminoazobenzene is used in our studies. The material possesses optical properties of both *trans-cis* photoisomerization and photoinduced reorientation. The azobenzene molecules are embedded in the poly-

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Optical Power Limiting

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Photosensitizers in Medicine, Environment, and Security Tebello Nyokong, Vefa Ahsen, 2012-01-03 This book addresses the synthesis of photosensitizers the main emphasis being on the new methods of synthesis such as microwave sonochemistry and the use of ionic liquids It also addresses the photochemistry and photophysics of the photosensitizers alone and in combination with nanoparticles the use of the photosensitizers in environmental control safety and medicine It discusses the common structures of the photosensitizers which are beneficial to these applications **Functional**

Metallosupramolecular Materials John George Hardy, Felix H Schacher, 2015-07-13 There is great interest in metallosupramolecular materials because of their use in magnetic photonic and electronic materials Functional Metallosupramolecular Materials focuses on the applications of these materials covering the chemistry underlying the synthesis of a variety of ligands to coordinate various metal ions and the generation of 2D and 3D materials based on these constructs The book starts by looking at different metallosupramolecular systems including naturally occurring functional metallosupramolecular materials DNA based metallosupramolecular materials metallopolymers metallogels as well as functional materials based on MOFs Subsequent chapters then systematically cover the different applications such as molecular computation spin crossover light harvesting and as photocatalysts for the production of solar fuels The book provides an overview of functional metallosupramolecular materials that will be of interest to graduate students academics and industrial chemists interested in supramolecular chemistry materials science and the materials applications

Materials for Optical Limiting: Volume 374 Robert Crane, 1995-11-20 The advent of lasers has made possible a number of optical based systems and applications such as the compact disc CD laser printers fiber optic communications laser surgical instruments etc Unfortunately while lasers permit these diverse applications safety concerns must be addressed A solution being pursued is the development of optical limiter materials that transmit at low intensities while changing their optical characteristics e g absorption or index of refraction when exposed to the laser s higher irradiances Topics covered in this book relate directly to the computational design and synthesis of new optical molecules Research on the design of limiter devices is also featured Materials addressed include liquid crystals organic polymers organic dyes C60 colloidal arrays and suspensions transition metal oxides semiconductors and photorefractive oxides Topics include modelling and solid state optical limiters thin film and solid state optical limiters saturable and reverse saturable absorbers liquid optical limiters and liquid crystalline and other optical limiters **Performance-Improvement Limits in Optical**

Wireless Coherent Communication Xizheng Ke, Chenghu Ke, 2025-03-14 This book presents some of the recent developments in the field of optical wireless coherence communication The factors affecting the coherence detection sensitivity are analyzed and the approach to approximate the coherence detection limit is discussed The wavefront distortion

caused by atmospheric turbulence is analyzed and the influence of the wavefront distortion on the coherence detection performance is examined A new concept of vortex beam coherence detection is proposed and the problem of signal light decomposition into partially coherent light detection is analyzed This book can benefit researchers engineers and graduate students in the field of telecommunications It is suitable for engineering and technical personnel engaged in applied optics and communications engineering university teachers graduate students and senior undergraduates *Introduction to Organic Electronic and Optoelectronic Materials and Devices* Sam-Shajing Sun,Larry R. Dalton,2008-05-29 Reflecting rapid growth in research and development on organic polymeric electronic and photonic materials and devices *Introduction to Organic Electronic and Optoelectronic Materials and Devices* provides comprehensive coverage of the state of the art in an accessible format The book presents fundamentals principles and mechanisms complem **Multiphoton and Light Driven Multielectron Processes in Organics: New Phenomena, Materials and Applications** F. Kajzar,Vladimir M. Agranovich,2012-12-06 Proceedings of the NATO Advanced Research Workshop Menton France 26 31 August 1999 *Standards, Methods and Solutions of Metrology* Luigi Cocco,2019-10-02 The goal of acceptable quality cost and time is a decisive challenge in every engineering development process To be familiar with metrology requires choosing the best combination of techniques standards and tools to control a project from advanced simulations to final performance measurements and periodic inspections This book contains a cluster of chapters from international academic authors who provide a meticulous way to discover the impacts of metrology in both theoretical and application fields The approach is to discuss the key aspects of a selection of untraditional metrological topics covering the analysis procedures and set of solutions obtained from experimental studies Nanotechnology for Telecommunications Sohail Anwar,M. Yasin Akhtar Raja,Salahuddin Qazi,Mohammad Ilyas,2017-12-19 With its unique promise to revolutionize science engineering technology and other fields nanotechnology continues to profoundly impact associated materials components and systems particularly those used in telecommunications These developments are leading to easier convergence of related technologies massive storage data compact storage devices and higher performance computing Nanotechnology for Telecommunications presents vital technical scientific information to help readers grasp issues and challenges associated with nanoscale telecommunication system development and commercialization and then avail themselves of the many opportunities to be gleaned This book provides technical information and research ideas regarding the use of nanotechnology in telecommunications and information processing reflecting the continuing trend toward the use of optoelectronics Nanotech will eventually lead to a technology cluster that offers a complete range of functionalities for systems used in domains including information energy construction environmental and biomedical Describing current and future developments that hold promise for significant innovations in telecommunications this book is organized to provide a progressive understanding of topics including Background information on nanoscience and nanotechnology Specific applications of nanotechnology in

telecommunications Nanostructured optoelectronic materials MEMS NEMS and their applications in communication systems Quantum dot Cellular Automata QCA and its applications in telecommunication systems How nonohmic nonlinear behavior affects both digital and analog signal processing Concepts regarding quantum switching and its applications in quantum networks The scale of the physical systems that use nanoscale electronic devices is still large and that presents serious challenges to the establishment of interconnections between nanoscale devices and the outside world Also addressing consequent social implications of nanotech this book reviews a broad range of the nano concepts and their influence on every aspect of telecommunications It describes the different levels of interconnections in systems and details the standardized assembly process for a broad specrum of micro nano bio fiber optic and optoelectronic components and functions This book is a powerful tool for understanding how to harness the power of nanotech through integration of materials processes devices and applications

Epitaxial Design Optimizations for Increased Efficiency in GaAs-Based High Power Diode Lasers
Thorben Kaul, 2021-04-09 This work presents progress in the root cause analysis of power saturation mechanisms in continuous wave CW driven GaAs based high power broad area diode lasers operated at 935 nm Target is to increase efficiency at high optical CW powers by epitaxial design The novel extreme triple asymmetric ETAS design was developed and patented within this work to equip diode lasers that use an extremely thin p waveguide with a high modal gain An iterative variation of diode lasers employing ETAS designs was used to experimentally clarify the impact of modal gain on the temperature dependence of internal differential quantum efficiency IDQE and optical loss High modal gain leads to increased free carrier absorption from the active region However less power saturation is observed which must then be attributed to an improved temperature sensitivity of the IDQE The effect of longitudinal spatial hole burning LSHB leads to above average non linear carrier loss at the back facet of the device At high CW currents the junction temperature rises Therefore not only the asymmetry of the carrier profile increases but also the average carrier density in order to compensate for the decreased material gain and increased threshold gain This carrier non pinning effect above threshold is found in this work to enhance the impact of LSHB already at low currents leading to rapid degradation of IDQE with temperature This finding puts LSHB into a new context for CW driven devices as it emphasizes the importance of low carrier densities at threshold The carrier density was effectively reduced by applying the novel ETAS design This enabled diode lasers to be realized that show minimized degradation of IDQE with temperature and therefore improved performance in CW operation

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