



Optical Power Limiting

Thomas Griffiths



Optical Power Limiting:

Proceedings of [the] First International Workshop on Optical Power Limiting Francois Kajzar, 1999

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 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 *Introduction to Organic Electronic and Optoelectronic Materials and Devices* Sam-Shajing Sun, Larry R. Dalton, 2016-10-03 This book covers the combined subjects of organic electronic and optoelectronic materials devices It is designed for classroom instruction at the senior college level Highlighting emerging organic and polymeric optoelectronic materials and devices it presents the fundamentals principle mechanisms representative examples and key data *Photosensitizers in Medicine, Environment, and Security* Tebello Nyokong, Vefa Ahsen, 2012-01-02 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

Nonlinear materials for optical power limiting

Hampus Lundén, 2019-05-13

High power laser pulses can be a threat to optical sensors including the human eye. Traditionally this threat has been alleviated by colour filters that block radiation in chosen wavelength ranges. Colour filters main drawback is that they block radiation regardless of it being useful or damaging information is lost for wavelengths at which the filter is active. Protecting the entire wavelength range of a sensor would block or strongly attenuate the radiation needed for the operation of the sensor. Sol gel glasses highly doped with optically non linear chromophores have previously shown high optical quality in combination with efficient optical power limiting OPL through reverse saturable absorption RSA. These filters transmit visible light unless the light fluence is above a certain threshold. A key design consideration of laser protection filters is linear absorption in relation to the threshold level. A high linear absorption means that the user's view is degraded by the filter. To model the photokinetics of RSA chromophores the five level population model is widely used. It consists of three singlet and two triplet levels. Model parameters relevant for OPL performance include linear absorption cross sections, two photon absorption 2PA cross sections, lifetimes, quantum yields, and inter system crossing ISC times. The dominant design paradigm is to have a highly absorbing and long lived triplet state that is quickly populated by ISC during the beginning of a laser pulse. To simultaneously achieve a lower threshold and linear absorption a vast number of materials for self activated filters were evaluated either as bulk glasses or solutions. An f 5 setup was used to evaluate their OPL performance while several photophysical measurements were performed to gain an understanding of system behaviour. The first three series of methyltriethoxysilane MTEOS Sol Gel glasses were doped with gold nanoparticles either solely or with one of two Pt acetylide chromophores. One with shorter conjugated ligands, the second with similar but longer conjugated ligands. Finally a series of multi branched fluorene chromophores were evaluated in solution. Their central moiety was either an organic benzene unit or an ISC promoter in the form of para dibromobenzene or a platinum II alkynyl unit. For the gold nanoparticle doped glasses the lower performance Pt acetylide with short ligands had its OPL threshold lowered at 600nm while the glasses doped with only gold nanoparticles showed no OPL at all. Secondly the enhancement was most pronounced for very low gold nanoparticle concentrations. While gold nanoparticles alone showed good OPL performance at 532 nm at this wavelength neither Pt acetylide showed an obvious OPL enhancement beyond linear absorption losses from codoping with gold nanoparticles. The improved OPL performance at 600 nm was attributed to stronger 2PA by electric field enhancement from the gold nanoparticles. The lack of detectable OPL improvement for 532 nm and for the higher performance Pt Acetylide chromophore with long ligands were qualitatively explained by a lower sensitivity to 2PA on system performance. A degraded performance from linear absorption by excess nanoparticles in front of the focus explained the weakening of the enhancement at higher gold nanoparticle concentrations. All three fluorene chromophores including the chromophore without a central ISC promoter showed broadband OPL through the visible spectrum. The OPL performance of the two chromophores with ISC promoters was expected considering their

transient absorption at microsecond time scales For the fluorene chromophore without an ISC promoter ultra fast transient absorption was used to identify singlet excited state absorption as the source of the OPL performance Both of these series of experiments demonstrate how a simplistic view of simply increasing desired photophysical parameters e g effective 2PA cross section or ISC quantum yield do not always result in a noticeable increase in system performance By employing numerical population models it was possible to identify which parameters had the highest impact on OPL performance

Laserpulser med h g effekt kan vara ett hot mot optiska sensorer inklusive det oskyddade gat Traditionellt har detta hot hanterats med f r filter som stoppar str lning inom valda v gl ngdsband F r filters huvudsakliga begr nsning ligger i att de tar bort str lning oberoende av om den r anv ndbar eller skadlig att information f rsvinner f r de v gl ngder filtret skyddar f r Skydd ver hela det v gl ngdsband en sensor verkar i skulle stoppa eller kraftigt f rsvaga str lningen som sensorn beh ver f r att fungera Sol gel glas h gdopade med optiskt icke linj ra molekyler har tidigare visat h g optisk kvalit i kombination med en effektiv optisk effektbegr nsning OPL via omv nd blekning RSA Dessa filter transmitterar synligt ljus s l nge ljusets fluens pulsenergi per area $J\ cm^{-2}$ inte ligger ver en viss begr nsningsniv En nyckelfaktor i designen av laserskyddsfilter r linj rabsorption kontra begr nsningsniv Genom att ka kromoforkoncentrationen s kan begr nsningsniv n s nkas till kostnad av kad linj rabsorption Detta betyder dock att anv ndarens omv rldsuppfattning genom filtret riskerar att minska F r att modellera fotokinetiken av RSA molekyler har femniv populationsmodellen varit vida anv nd Den best r av tre singlet niv er och tv tripletniv er Modellparametrar relevanta f r OPL prestanda innefattar kvantverkningsgrader olika verg ngars linj rabsorptionstv rsnitt tv fotonabsorptionstv rsnitt och livstider samt halveringstider f r verf ring mellan singlet och triplettillst nd Den dominanta designparadigmen r att ha ett h g absorberande och l nglivat tripletl ge som snabbt populeras i b rjan av en laserpuls F r att samtidigt uppn en l gre begr nsningsniv och l gre linj rabsorption utv rderades ett flertal sj lvaktiverade filter antingen i form av glas eller i v tskel sning En f 5 uppst lling anv ndes f r att utv rdera deras OPLprestanda medan en m ngd fotofysiska m tningar utf rdes f r att f en f rst else f r deras systembeteende De tre f rsta serierna av MTEOS Sol Gel glas var dopade med guldnanopartiklar antingen enbart eller med en av tv Pt II acetylidmolekyler Den f rsta hade kortare konjugerade ligandarmar den andra var liknande men hade l ngre ligandarmar Slutligen utv rderades en serie av flerarmade fluorenmolekyler i v tskel sning Deras centrala enhet bestod antingen av en organisk bensenring eller en ISC gynnare i form av para dibromobensen eller en Pt II acetylidenhet Guldnanopartiklarna kunde f rst rka OPL prestandan f r enbart den mindre effektiva korta Pt II acetylidmolekylen p 600nm men ej 532nm Filtren dopade med enbart guldnanopartiklar visade god prestanda p 532nm men ingen p 600nm Alla tre fluorenmolekyler visade OPL genom det synliga spektrat ven den molekylen utan ISC gynnare B de dessa serier experiment demonstrerar hur ett f renklat angrepps tt med att enbart ka eftertraktade fotofysiska parametrar t ex effektivt 2PA tv rsnitt eller ISC kvantverkningsgrad inte alltid resulterar i m rkbart kad systemprestanda Genom att anv nda numeriska populationsmodeller visas hur det r m jligt att

identifiers vilka parametrer som har den största inverkan på OPL prestanda Multiphoton and Light Driven Multielectron Processes in Organics: New Phenomena, Materials and Applications F. Kajzar, Vladimir M. Agranovich, 2000-06-30
Proceedings of the NATO Advanced Research Workshop Menton France 26-31 August 1999 *Optical Power Limiter* M. J. Soileau, Eric W. Van Stryland, UNIVERSITY OF CENTRAL FLORIDA ORLANDO CENTER FOR RESEARCH IN ELECTRO-OPTICS AND LASERS., 1988 We have performed a fundamental study of optical materials interactions which can be used for a passive control of the spatial energy or power distribution of optical beams The study included materials for use in various spectral bands within the spectral range of the UV to 11 microns and the temporal range from cw to picoseconds We concentrated on materials and concepts with broadband response Materials studied under DARPA CNVEO program include aromatic liquids liquid crystals semiconductors and liquid suspensions We have demonstrated optical limiting using nonlinear absorption in liquid crystals optical self action self focusing in liquids and solids and multiphoton absorption plus subsequent self defocusing in semiconductors We have theoretically modeled the nonlinearities in these materials and understand the limiting mechanisms although in the organic materials the magnitudes of the nonlinearities are not well understood In the semiconductors we have developed a predictive capability that allows us to calculate the nonlinearity knowing only a few fundamental material parameters In addition we have developed a preliminary model that explains the very low limiting thresholds observed in a liquid suspension of carbon particles as due to nonlinear scattering from rapidly expanding microplasmas initiated by thermionic emission *Optical Power Limiting for Eye Protection from Tunable Lasers*, 1997 Reversible saturable absorption of C60 and sacrificial mirrors with double path were examined for eye protection from laser beams of picosecond and nanosecond lasers Both approaches can achieve significant attenuation to protect eyes from serious or permanent damage although the clamped energy is still higher than the permissible values of ANSI standards The combination of these two approaches can eliminate the need to replace sacrificial mirrors The phenomena of absorbing 100 photons in a single picosecond pulse definitely deserves further study for its mechanism
Nonlinear Optical Effects: an Optical Power Limiter Stanford University. Stanford Electronics Laboratories, 1962
Materials for Optical Switches, Isolators, and Limiters M. J. Soileau, 1989 **Optics Letters**, 2002
Proceedings of the Second International Symposium on Optical Power Limiting (ISOPL 2000), Venice (Italy), 2-5 July, 2000, 2001 The Journal of the Korean Physical Society, 2003 Fullerenes and Photonics, 1995
Comprehensive Organometallic Chemistry III, 2006-12-26 Comprehensive Organometallic Chemistry COMC III Third Edition 13 Volume Set is aimed at the specialist and non specialist alike It covers the major developments in the field in a carefully presented way with extensive cross references COMC III provides a clear and comprehensive overview of developments since 1993 and attempts to predict trends in the field over the next ten years Applications of organometallic chemistry continue to expand and this has been reflected by the significant increase in the number of volumes devoted to

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Control of Laser Beam Characteristics and Nonlinear Methods for Wavefront Control Vladimir E. Sherstobitov, Leonid Nikolaevich Soms, 2001 *Optical Power Limiting Liquid Crystal Composites*, 1994 This final report covers the experimental and theoretical investigations of optical power limiting in liquid crystal systems Both pure and composite systems were investigated Evaluation of a variety of liquid crystal materials for optical power limiting applications is reported Under this project optical power limiting of several pure materials was demonstrated in the nanosecond regime with the cyanobiphenyls being found most effective for passive OPL applications For CW lasers polymer dispersed liquid crystals in a polymer matrix were shown to be effective optical power limiters when used in an active configuration Extensive research on the mechanisms causing optical nonlinear response in liquid crystals is reported Additional work on a separate subproject to evaluate and develop the shuttering capability of polymer dispersed liquid crystals in the IR is reported Work on a variety of polymer liquid crystal materials is reported Successful shuttering of IR radiation was shown

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