

Patterning processes with thermally decomposable photopolymers

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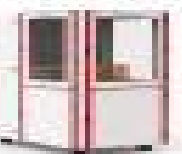
Introduction

Submicron-scale structured substrates, especially data storage substrates that require structured and stable optical recording (e.g., Blu-ray discs, hard-disk drive substrates)



Benefit by a specially engineered and structured substrate, pattern that decomposes during processing and decomposes into a cross-linked polymer and a volatile byproduct. The volatile byproduct is removed from the substrate during processing, leaving a cross-linked polymer on the substrate. The cross-linked polymer is then used as a substrate for further processing.

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Characterization of polymer decomposition



UV-Vis spectra of photodegraded polymers

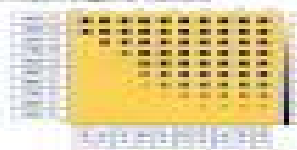
TGA curves of the polymers

DSC curves of the polymers

Thermal Scanning Probe Lithography (t-SPL)

t-SPL can be effectively implemented with an substrate a polymer of polymer film. The polymer film is heated to a temperature above its glass transition temperature. The polymer film is then patterned using a thermal scanning probe lithography (t-SPL) process.

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Conclusions

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Acknowledgments and Works Cited

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Polymers In Lithography 1971

Michael Hoelscher



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Polymers in Lithography, 1971 D. J. De Renzo, 1971 *Water-soluble Polymers; Technology and Applications, 1972* Yale L. Meltzer, 1972 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1973 **Who's Who in Plastics Polymers** James P. Harrington, 2000-05-09 This is the first edition of a unique new plastics industry resource Who's Who in Plastics Polymers It is the only biographical directory of its kind and includes contact affiliation and background information on more than 3300 individuals who are active leaders in this industry and related organizations The biographical directory is in **Acrylic and Vinyl Fibers, 1972** Marshall Sittig, 1972 **Hydrofluoric Acid Manufacture, 1972** Samuel Weiss, 1972 **Polymers for Electronic Applications** J.H. Lai, 2018-01-18 The object of this book is to review and to discuss some important applications of polymers in electronics The first three chapters discuss the current primary applications of polymers in semiconductor device manufacturing polymers as resist materials for integrated circuit fabrication polyimides as electronics packaging materials and polymers as integrated circuits encapsulates **Plasma Deposition, Treatment, and Etching of Polymers** Riccardo d'Agostino, 2012-12-02 Plasma Deposition Treatment and Etching of Polymers takes a broad look at the basic principles the chemical processes and the diagnostic procedures in the interaction of plasmas with polymer surfaces This recent technology has yielded a large class of new materials offering many applications including their use as coatings for chemical fibers and films Additional applications include uses for the passivation of metals the surface hardening of tools increased biocompatibility of biomedical materials chemical and physical sensors and a variety of micro and optoelectronic devices Appeals to a broad range of industries from microelectronics to space technology Discusses a wide array of new uses for plasma polymers Provides a tutorial introduction to the field Surveys various classes of plasma polymers their chemical and morphological properties effects of plasma process parameters on the growth and structure of these synthetic materials and techniques for characterization Interests scientists engineers and students alike *Semiconductor Lithography* Wayne M. Moreau, 2012-12-06 Semiconductor lithography is one of the key steps in the manufacturing of integrated silicon based circuits In fabricating a semiconductor device such as a transistor a series of hot processes consisting of vacuum film deposition oxidations and dopant implantation are all patterned into microscopic circuits by the wet processes of lithography Lithography as adopted by the semiconductor industry is the process of drawing or printing the pattern of an integrated circuit in a resist material The pattern is formed and overlayed to a previous circuit layer as many as 30 times in the manufacture of logic and memory devices With the resist pattern acting as a mask a permanent device structure is formed by subtractive removal etching or by additive deposition of metals or insulators Each process step in lithography uses inorganic or organic materials to physically transform semiconductors of silicon insulators of oxides nitrides and organic polymers and metals into useful electronic devices All forms of electromagnetic radiation are used in the processing Lithography is a multidisciplinary science of materials processes and

equipment interacting to produce three dimensional structures Many aspects of chemistry electrical engineering materials science and physics are involved The purpose of this book is to bring together the work of many scientists and engineers over the last 10 years and focus upon the basic resist materials the lithographic processes and the fundamental principles behind each lithographic process Textile Guide to Europe, 1972 Noyes Data Corporation,1972 **The Publishers' Trade List Annual ,1972** **Plastic Contact Lenses, 1972** Steven Summerville,1972 *Semiconductor Devices and Integrated Electronics* A. G. Milnes,2012-12-06 For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications Such topics are covered in specialized monographs numbering many hundreds but the voluminous nature of this literature limits access for students This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level The educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced the concepts of rectification amplification oscillators modulation and logic and Switching circuits The book should also be of value to professional engineers and physicists because of both the information included and the detailed guide to the literature given by the references The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels frequency speed size and cost are discussed The text also briefly mentions how devices are used and presents circuits and comments on representative applications Thus the book seeks a balance between the extremes of device physics and circuit design **Molecular Imprinting of Polymers** Sergey Piletsky,2006-05-12 One of Nature's most important talents is evolutionary development of systems capable of molecular recognition distinguishing one molecule from another Molecular recognition is the basis for most biological processes such as ligand-receptor binding substrate-enzyme reactions and translation and transcription of the genetic code and is therefore *Polymers for Electronic & Photonic Application* C. P. Wong,2013-10-22 The most recent advances in the use of polymeric materials by the electronic industry can be found in *Polymers for Electronic and Photonic Applications* This book provides in depth coverage of photoresist for micro lithography microelectronic encapsulants and packaging insulators dielectrics for multichip packaging electronic and photonic applications of polymeric materials among many other topics Intended for engineers and scientists who design process and manufacture microelectronic components this book will also prove useful for hybrid and systems packaging managers who want to be informed of the very latest developments in this field Presents most recent advances in the use of polymeric materials by the electronic industry Contributions by foremost experts in the field **Paint and Varnish Removers, 1972** Alec Williams,1972 **The National union catalog, 1968-1972 ,1973** **Organic Polymers in Energy-Environmental**

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