

Lithography

down to single digit nano regime

Electrons

e^-

Tip

Thermal actuator

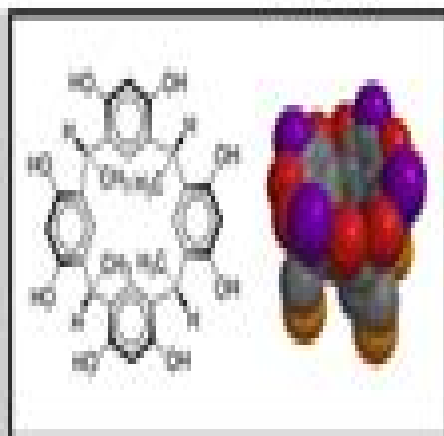
Piezoresistive sensor

Molecular-based Resist

Imaging & Analysis

on the nanoscale

Defined interaction for imaging
between probe and sample surface



Scanning Probe Lithography

Marco Rolandi



Scanning Probe Lithography:

Scanning Probe Lithography Hyongsok T. Soh, Kathryn Wilder Guarini, Calvin F. Quate, 2001-06-30 Scanning Probe Lithography SPL describes recent advances in the field of scanning probe lithography a high resolution patterning technique that uses a sharp tip in close proximity to a sample to pattern nanometer scale features on the sample SPL is capable of patterning sub 30nm features with nanometer scale alignment registration It is a relatively simple inexpensive reliable method for patterning nanometer scale features on various substrates It has potential applications for nanometer scale research for maskless semiconductor lithography and for photomask patterning The authors of this book have been key players in this exciting new field Calvin Quate has been involved since the beginning in the early 1980s and leads the research time that is regarded as the foremost group in this field Hyongsok Tom Soh and Kathryn Wilder Guarini have been the members of this group who in the last few years have brought about remarkable series of advances in SPM lithography Some of these advances have been in the control of the tip which has allowed the scanning speed to be increased from micrometers per second to millimeters per second Both non contact and in contact writing have been demonstrated as has controlled writing of sub 100 nm lines over large steps on the substrate surface The engineering of a custom designed MOSFET built into each microcantilever for individual current control is another notable achievement Micromachined arrays of probes each with individual control have been demonstrated One of the most intriguing new aspects is the use of directly grown carbon nanotubes as robust high resolution emitters In this book the authors concisely and authoritatively describe the historical context the relevant inventions and the prospects for eventual manufacturing use of this exciting new technology

Scanning Probe Lithography Yu Kyoung Ryu, Javier Martinez Rodrigo, 2022-12-22 The most complete book available on scanning probe lithography SPL this work details the modalities mechanisms and current technologies applications and materials on which SPL can be performed It provides a comprehensive overview of this simple and cost effective technique which does not require clean room conditions and can be performed in any lab or industry facility to achieve high resolution and high quality patterns on a wide range of materials biological semiconducting polymers and 2D materials Introduces historical background of SPL including evolution of the technique and tools Explains the mechanism of sample modification manipulation types of AFM tips technical parts of the experimental setup and materials on which the technique can be applied Shows the different types of devices and structures fabricated by SPL together with the processing steps Contains a complete and state of the art package of examples and different approaches performed by different international research groups Summarizes strengths limitations and potential of SPL This book is aimed at advanced students technicians and researchers in materials science microelectronics and others working with lithographic techniques and fabrication processes

Scanning Probe Lithography and Nanofabrication Horng-Chyau Day, 1998 *Scanning Probe Lithography*
Hyongsok T. Soh, Kathryn Wilder Guarini, Calvin F. Quate, 2013-03-14 Scanning Probe Lithography SPL describes recent

advances in the field of scanning probe lithography a high resolution patterning technique that uses a sharp tip in close proximity to a sample to pattern nanometer scale features on the sample SPL is capable of patterning sub 30nm features with nanometer scale alignment registration It is a relatively simple inexpensive reliable method for patterning nanometer scale features on various substrates It has potential applications for nanometer scale research for maskless semiconductor lithography and for photomask patterning The authors of this book have been key players in this exciting new field Calvin Quate has been involved since the beginning in the early 1980s and leads the research time that is regarded as the foremost group in this field Hyongsok Tom Soh and Kathryn Wilder Guarini have been the members of this group who in the last few years have brought about remarkable series of advances in SPM lithography Some of these advances have been in the control of the tip which has allowed the scanning speed to be increased from μm second to mm second Both non contact and in contact writing have been demonstrated as has controlled writing of sub 100 nm lines over large steps on the substrate surface The engineering of a custom designed MOSFET built into each microcantilever for individual current control is another notable achievement Micromachined arrays of probes each with individual control have been demonstrated One of the most intriguing new aspects is the use of directly grown carbon nanotubes as robust high resolution emitters In this book the authors concisely and authoritatively describe the historical context the relevant inventions and the prospects for eventual manufacturing use of this exciting new technology

Advancements in Scanning Probe Lithography and Nanostructure Fabrication Hyongsok T. Soh, 1999

Thermal Scanning Probe Lithography Using Polyphthalaldehyde Felix Holzner, Nicholas Spencer (Chemical engineer), 2013

Scanning Probe Lithography of Chemically Functionalised Surfaces Scott M. D. Watson, 2008

Micromachining: Scanning Probe Lithography Lydia Anggraini, 2019-03-13 This book describe how nanoscale resist patterns technology were machined or fabricated on a silicon substrate using a scanning probe microscope SPM based on nanolithography SPNL The advantage by using this technology is the low cost of nanopatterning device technology can be created where an atomic force microscope AFM is used Conventional SPNL directly writes nanopatterns using a single probe cantilever

Scanning Probe Lithography on Organic Monolayers SunHyung Lee, 2011

Scanning Probe Lithography on Organic Monolayers

Scanning Probes for Lithography, Manipulation and Devices Marco Rolandi, 2005

Applied Scanning Probe Methods III Bharat Bhushan, Harald Fuchs, 2006-04-28 The Nobel Prize of 1986 on Scanning Tunneling Microscopy sig led a new era in imaging The scanning probes emerged as a new instrument for imaging with a precision sufficient to delineate single atoms At first there were two the Scanning Tunneling Microscope or STM and the Atomic Force Microscope or AFM The STM relies on electrons tunneling between tip and sample whereas the AFM depends on the force acting on the tip when it was placed near the sample These were quickly followed by the Magnetic Force Microscope MFM and the Electrostatic Force Microscope EFM The MFM will image a single magnetic bit with features as small as 10nm With the EFM one can monitor the charge of a single electron Prof Paul Hansma at Santa Barbara

opened the door even wider when he was able to image biological objects in aqueous environments. At this point the sluice gates were opened and a multitude of different instruments appeared. There are significant differences between the Scanning Probe Microscopes or SPM and others such as the Scanning Electron Microscope or SEM. The probe microscopes do not require preparation of the sample and they operate in ambient atmosphere whereas the SEM must operate in a vacuum environment and the sample must be cross sectioned to expose the proper surface. However the SEM can record 3D image and movies features that are not available with the scanning probes.

The Utilization of Scanning Probe Lithography to Interrogate Both Self Assembled Monolayers and the Nanostructures Created Therein Via Scanning Tunneling Microscopy Matthew Scott Lewis, 2013

Nanofabrication Zheng Cui, 2009-01-01 Nanofabrication Principles Capabilities and Limits presents a one stop description at the introductory level on most technologies that have been developed which are capable of making structures below 100nm. Principles of each technology are introduced and illustrated with minimum mathematics involved. The capabilities of each technology in making sub 100nm structures are described. The limits of preventing a technology from further going down the dimensional scale are analyzed. Drawing upon years of practical experience and using numerous examples Zheng Cui covers state of the art technologies in nanofabrication including Photon based lithography Charged particle beams lithography Nanofabrication using scanning probes Nanoscale replication Nanoscale pattern transfer Indirect nanofabrication Nanofabrication by self assembly Nanofabrication Principles Capabilities and Limits will serve as a practical guide and first hand reference for researchers and practitioners working in nanostructure fabrication and also provides a tool box of various techniques that can be easily adapted in different fields of applications. Written for Nanoscience and nanotechnology researchers and engineers technical professionals and academic researchers in the fields of electronics mechanical engineering and chemical engineering

Scanning Probe Lithography. 4. Effect of Scanning Tunneling Microscope Tip Parameters on Lithographic Patterns in Self-Assembling Monolayers, 1996 Here we examine the effect of an STM tip on a Au confined n octadecyl mercaptan HS-CH₂-17CH₃ SAM in air. We have determined that STM induced lithography is controlled by a complex combination of parameters defined by both the instrument and the chemical and physical properties of materials in the vicinity of the tip. We have identified conditions that permit accurate control of the tip position during patterning so we are able to prevent large tip excursions that lead to mixed patterning mechanisms. We propose a multi step model in which the n octadecyl mercaptan monolayer is 1 disrupted by the tip 2 electrochemically desorbed and 3 removed by the scanning action of the tip. Once the passivating SAM is removed additional patterning etches the exposed Au substrate. In addition to the primary pattern we observe an irregularly shaped region of the surface that is disordered for 1-500 nm beyond the primary pattern. This disordered region represents an early stage of the patterning and indicates that the resolution of this technique is limited by the electrochemical nature of the patterning process. In some cases it is possible to form secondary patterns from protrusions on the tip. Patterns on n octadecyl

mercaptan coated Au 111 defined in this manner are dimensionally stable for several days The results provide further insight into this alternative approach to conventional lithography

Scanning Probe Lithography for Bioactive

Functionalization Michael Manfred Hirtz,2023 **Materials and Processes for Next Generation Lithography**

,2016-11-08 As the requirements of the semiconductor industry have become more demanding in terms of resolution and speed it has been necessary to push photoresist materials far beyond the capabilities previously envisioned Currently there is significant worldwide research effort in to so called Next Generation Lithography techniques such as EUV lithography and multibeam electron beam lithography These developments in both the industrial and the academic lithography arenas have led to the proliferation of numerous novel approaches to resist chemistry and ingenious extensions of traditional photopolymers Currently most texts in this area focus on either lithography with perhaps one or two chapters on resists or on traditional resist materials with relatively little consideration of new approaches This book therefore aims to bring together the worlds foremost resist development scientists from the various community to produce in one place a definitive description of the many approaches to lithography fabrication Assembles up to date information from the world s premier resist chemists and technique development lithographers on the properties and capabilities of the wide range of resist materials currently under investigation Includes information on processing and metrology techniques Brings together multiple approaches to litho pattern recording from academia and industry in one place

Recent Advances in Nanofabrication Techniques and Applications

Bo Cui,2011-12-02 Nanotechnology has experienced a rapid growth in the past decade largely owing to the rapid advances in nanofabrication techniques employed to fabricate nano devices Nanofabrication can be divided into two categories bottom up approach using chemical synthesis or self assembly and top down approach using nanolithography thin film deposition and etching techniques Both topics are covered though with a focus on the second category This book contains twenty nine chapters and aims to provide the fundamentals and recent advances of nanofabrication techniques as well as its device applications Most chapters focus on in depth studies of a particular research field and are thus targeted for researchers though some chapters focus on the basics of lithographic techniques accessible for upper year undergraduate students Divided into five parts this book covers electron beam focused ion beam nanoimprint deep and extreme UV X ray scanning probe interference two photon and nanosphere lithography

Dendrimer Resists in Scanning Probe Lithography Itai Suez,2004 *Chemical Scanning Probe Lithography and Molecular Construction* Yuki Hanyu,2010 *Technology of Proximal Probe Lithography* Christie R. K. Marrian,1993

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