

# MRS SYMPOSIUM PROCEEDINGS

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## Laser and Particle-Beam Chemical Processing for Microelectronics

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# Laser Chemical Processing For Microelectronics

**D.K. Evans**



## **Laser Chemical Processing For Microelectronics:**

*Laser Chemical Processing for Microelectronics* K. G. Ibbs, 1989-01 Nine expert contributors describe the application of laser processing techniques in the fabrication of semiconductor materials devices for the microelectronics industry This book comprises a carefully edited collection of specially written reviews by leading figures in all aspects of this important area of high technology This subject matter should interest anyone involved with a semiconductor fabrication facility or a development laboratory with an interest in modern advances in processing technology especially those people working in the larger electrical electronics companies In addition it will be of value to university groups in engineering physics departments involved in laser processing of materials of subsidiary interest to microfilm technologists working in optics fabrication

**Theory and Application of Laser Chemical Vapor Deposition** J. Mazumder, Aravinda Kar, 2013-06-29 In this monograph the authors offer a comprehensive examination of the latest research on Laser Chemical Vapor Deposition LCVD Chapters explore the physics of LCVD as well as the principles of a wide range of related phenomena including laser matter interactions heat transfer fluid flow chemical kinetics and adsorption With this reference researchers will discover how to apply these principles to developing theories about various types of LCVD processes gain greater insight into the basic mechanisms of LCVD and obtain the ability to design and control an LCVD system **Lasers in Microelectronic**

**Manufacturing** Bodil Braren, 1991 *Lasers* Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and titles indexes

*Laser-Assisted Microtechnology* Simeon M. Metev, Vadim P. Veiko, 2013-03-08 Laser Assisted Microtechnology deals with laser applications to a wide variety of problems in microelectronic design and fabrication It covers micromachining of thin films microprocessing of materials maskless laser micropatterning and laser assisted synthesis of thin film systems The monograph describes fundamental aspects and practical details of the technological processes as well as the optimum conditions for their realization **Advanced Laser Chemical Processing For Microelectronics and Integrated Optics**

, 1992 This report summarizes a three year research effort to explore advanced laser chemical processing for microelectronics and integrated optics The main goals of the work have been a to develop techniques for fabrication of integrated optical devices in GaAs multilayer and quantum well structures and b to explore new and novel techniques of advanced semiconductor processing for microelectronics and optoelectronics **Laser Microfabrication** Daniel J.

Ehrlich, Jeffrey Y. Tsao, 1989-06-21 This book reviews the solid core of fundamental scientific knowledge on laser stimulated surface chemistry that has accumulated over the past few years It provides a useful overview for the student and interested non expert as well as essential reference data photodissociation cross sections thermochemical constants etc for the active researcher **Fundamentals of Laser-Assisted Micro- and Nanotechnologies** Vadim P. Veiko, Vitaly I.

Konov,2014-05-19 This book covers the state of the art of laser micro and nanotechnology The physical fundamentals of different processes and the application are presented The book deals with different materials like phase change and memory alloys thin films polymers etc New phenomena and mechanisms of laser matter interaction in nano domains are explained This book is helpful for students postgraduates engineers and researches working not only in the field of laser microtechnology but also in high tech industry like photonics microelectronics information technology **Laser Applications in Physical Chemistry** D.K. Evans,2020-11-26 This book provides an introduction on applications of lasers in Chemistry It describes laser as a tool for chemistry the consideration involved in describing a laser beam and what happens to beam as it is propagated through a gas The book is useful for graduates and advanced undergraduates **Laser Processing and Diagnostics** D. Bäuerle,2013-11-11 Laser processing is now a rapidly increasing field with many real and potential applications in different areas of technology such as micromechanics metallurgy integrated optics and semiconductor device fabrication The necessity for such sophisticated light sources as lasers is based on the spatial coherence and the monochromaticity of laser light The spatial coherence permits extreme focussing of the laser light resulting in the availability of high energy densities which can be used for strongly localized heat and chemical treatment of materials with a resolution down to less than 1  $\mu\text{m}$  When using pulsed or scanned cw lasers localization in time is also possible Additionally the monochromaticity of laser light allows for control of the depth of heat treatment and/or selective nonthermal bond breaking within the surface of the material or within the molecules of the surrounding reactive atmosphere simply by tuning the laser wavelength These inherent advantages of laser light permit micromachining of materials drilling cutting welding etc and also allow single step controlled area processing of thin films and surfaces Processes include structural transformation removal of residual damage grain growth in polycrystalline material amorphization surface hardening etc etching doping alloying or deposition In addition laser processing is not limited to planar substrates **Polymer Surfaces and Interfaces** K. L. Mittal,K. W. Lee,1997-04 Polymeric materials are used for a legion of applications in a wide array of technological areas and their proper surface interface characteristics are of cardinal importance for their applications Therefore the need to characterize polymer surfaces interfaces and their suitable modification to impart desired characteristics is quite patent This book chronicles the proceedings of the Symposium on Polymer Surfaces and Interfaces Characterization Modification and Application held as a part of the Society of Plastics Engineers Annual Technical Conference Boston May 7-11 1995 The articles in this book address many aspects of polymer surfaces and interfaces Topics covered include various ways chemical photochemical laser flame corona to modify polymer surfaces modification of contact lens surfaces various ways to analyze characterize polymer surfaces metal polymer interfaces metal polyimide adhesion metal self assembled organic monolayer interfaces polymer alignment layers for liquid crystals alignment of liquid crystal surfaces polyimide alignment layers molecular re orientation of polymer surfaces plasma

polymerized organic coatings epoxy fiber interphase epoxy underfill materials for packaging integrated circuits transport in polymers polymer miscibility and cell adhesion      **The Chemistry of Metal CVD** Toivo T. Kodas, Mark J.

Hampden-Smith, 2008-09-26 High purity thin metal coatings have a variety of important commercial applications for example in the microelectronics industry as catalysts as protective and decorative coatings as well as in gas diffusion barriers This book offers detailed up to date coverage of the chemistry behind the vapor deposition of different metals from organometallic precursors In nine chapters the CVD of metals including aluminum tungsten gold silver platinum palladium nickel as well as copper from copper I and copper II compounds is covered The synthesis and properties of the precursors the growth process morphology quality and adhesion of the resulting films as well as laser assisted ion assisted and plasma assisted methods are discussed Present applications and prospects for future developments are summarized With ca 1000 references and a glossary this book is a unique source of in depth information It is indispensable for chemists physicists engineers and materials scientists working with metal coating processes and technologies From Reviews I highly recommend this book to anyone interested in learning more about the chemistry of metal CVD J Am Chem Soc      Laser and Particle-beam Chemical Processing for Microelectronics Daniel J. Ehrlich, Materials Research Society (U.S.), Materials Research Society (U.S.). Fall Meeting, 1988      **Development of a Micropump for Microelectronic Cooling** C. Channy Wong, Douglas R.

Adkins, Dahwey Chu, 1997      **Laser Surface Processing and Characterization** Ian W. Boyd, 1992 The contributions in this volume reflect not only the growing understanding of the underlying mechanisms controlling the various reactions in laser surface processing but also the potential of several developing applications of direct processing The most notable trend in the field currently is the technique of laser ablation which is reported in almost a quarter of the papers in this volume Whilst by no means a new phenomenon attention has until recent years remained in the area of lithography and UV sensitive materials The growth in interest lies in the use of the technique to grow multi component thin films and multi layers A number of papers on the topic of process diagnostics and in situ measurements are also included The theme of these annual meetings is centred around the physical and chemical modification of thin films and surfaces induced by the action of photon ion neutral or electron beams in a variety of environments Consequently these proceedings provide a comprehensive and unified presentation of the latest developments in this field      *Thin Film Processes II* Werner Kern, 2012-12-02 This sequel to the 1978 classic *Thin Film Processes* gives a clear practical exposition of important thin film deposition and etching processes that have not yet been adequately reviewed It discusses selected processes in tutorial overviews with implementation guide lines and an introduction to the literature Though edited to stand alone when taken together *Thin Film Processes II* and its predecessor present a thorough grounding in modern thin film techniques Provides an all new sequel to the 1978 classic *Thin Film Processes* Introduces new topics and several key topics presented in the original volume are updated Emphasizes practical applications of major thin film deposition and etching processes Helps readers find the

appropriate technology for a particular application      *Photon Processing in Microelectronics and Photonics* ,2007      *Laser Applications in Microelectronic and Optoelectronic Manufacturing* ,2000      **Advances in Laser Materials Processing**

Jonathan R. Lawrence,2010-07-27 Because of its capacity for continuous development and flexibility of use the laser has become a mainstream manufacturing tool in many industrial sectors This timely book relays the state of the art in laser materials processing technology and applications and likely advances to be made from current research taking place around the world The book also promotes appreciation for laser applications in a variety of industrial sectors After two introductory chapters the book reviews the main areas of laser processing Starting with laser cutting and machining the book discusses laser welding annealing and hardening It then considers surface treatment coating and materials deposition as well as other engineering techniques such as peening and net shape engineering before discussing laser micro and nano fabrication techniques The book concludes by looking at modelling and process control With its distinguished editorial team and contributions from renowned researchers working in every corner of the globe *Advances in laser materials processing* provides a comprehensive yet detailed coverage of the many topics that comprise the field of laser materials processing It provides a reference source for the scientists and engineers in such areas as metals processing and microelectronics as well those conducting laser materials processing research in either academia or industry A comprehensive practitioner guide and reference work explaining state of the art laser processing technologies in manufacturing and other disciplines Explores the challenges potential and future directions through the continuous development of new application specific lasers in materials processing Discusses coatings and material deposition with lasers with including the production of coatings by laser assisted processes laser direct metal deposition and laser induced forward transfer LIFT      *Microelectronic Materials and Processes* Roland Levy,1989-01-31 The primary thrust of very large scale integration VLS is the miniaturization of devices to increase packing density achieve higher speed and consume lower power The fabrication of integrated circuits containing in excess of four million components per chip with design rules in the submicron range has now been made possible by the introduction of innovative circuit designs and the development of new microelectronic materials and processes This book addresses the latter challenge by assessing the current status of the science and technology associated with the production of VLSI silicon circuits It represents the cumulative effort of experts from academia and industry who have come together to blend their expertise into a tutorial overview and cohesive update of this rapidly expanding field A balance of fundamental and applied contributions cover the basics of microelectronics materials and process engineering Subjects in materials science include silicon silicides resists dielectrics and interconnect metallization Subjects in process engineering include crystal growth epitaxy oxidation thin film deposition fine line lithography dry etching ion implantation and diffusion Other related topics such as process simulation defects phenomena and diagnostic techniques are also included This book is the result of a NATO sponsored Advanced Study Institute AS held in Castelvecchio Pascoli Italy Invited speakers at this institute provided

manuscripts which were edited updated and integrated with other contributions solicited from non participants to this AS

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