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Wet Etching Recipes (Page 1 of 2)

Material to be Etched	Chemicals	Ratio	Comments
Aluminum (Al)	H ₃ PO ₄ : Water : Acetic Acid : HNO ₃	16:2:1:1	PAN Etch; 200 nm/min @ 25 C; 600 nm/min @ 40 C may be used at 25 C but etches faster at a higher temperature
Aluminum (Al)	NaOH : Water	1:1	must be heated to 120 C
Aluminum (Al)	H ₃ PO ₄	---	---
Chromium (Cr)	HCl : Water	3:1	---
Chromium (Cr)	HCl:Glycerin	1:1	---
Copper (Cu)	HNO ₃ : Water	5:1	---
Copper (Cu)	Ammonium Persulphate	---	---
Gold (Au)	KI : I : Water	115 g : 65 g : 100 ml	---
Gold (Au)	HCl : HNO ₃	3:1	Aqua Regia; discard after use
Iron (Fe)	HCl : Water	1:1	---
Iron (Fe)	HNO ₃ : Water	1:1	---
Lead (Pb)	Acetic Acid : H ₂ O ₂	1:1	for dissolving solder connections
Lead (Pb)	Acetic Acid : H ₂ O ₂ : Water	2-2-5	---
Molybdenum (Mo)	HCl : H ₂ O ₂	1:1	---
Molybdenum (Mo)	H ₂ SO ₄ : HNO ₃ : Water	1:1:1	---
Nichrome	H ₂ SO ₄	---	use at 100 C
Nichrome	HCl : HNO ₃ : Water	1:1:3	---
Nickel (Ni)	HCl : HNO ₃	5:1	---
Nickel (Ni)	HF : HNO ₃	1:1	---
Palladium (Pd)	HCl : HNO ₃	3:1	Aqua Regia; discard after use
Platinum (Pt)	HCl : HNO ₃ : Water	3:1:4	use at 95 C
Platinum (Pt)	HCl : HNO ₃	6:1	age for 1 hour; use at 70 C
Polysilicon (Si)	HNO ₃ : Water : HF	50:20:1	remove oxide first; 5-60 nm/min @ 25C
Polysilicon (Si)	HNO ₃ : HF	3:1	remove oxide first; high etch rate: 4.2 micron/min

Reference: Failure and Yield Analysis Handbook, Technology Associates

[<Proceed to Page 2 - Etch Recipes for Silicon to Vanadium \(Alphabetical\)>](#)

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Platinum Etch Recipe

Rebecca Cheung

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Platinum Etch Recipe:

Metallographic Etching, 2nd Edition G. Petzow, 1999-01-01 An English translation of the 1994 second edition this book is an outstanding source of etchants of all types and electrolytic polishing solutions used by metallographers to reveal the structure of nearly any material ever prepared and examined The introductory text on specimen preparation and theory of etching has been expanded and updated to cover all common procedures as well as some infrequently used methods Safety procedures and precautions is a valuable addition as well

Electroceramic-Based MEMS Nava Setter, 2006-03-30 The book is focused on the use of functional oxide and nitride films to enlarge the application range of MEMS microelectromechanical systems including micro sensors micro actuators transducers and electronic components for microwaves and optical communications systems Applications emerging applications fabrication technology and functioning issues are presented and discussed The book covers the following topics Part A Applications and devices with electroceramic based MEMS Chemical microsensors Microactuators based on thin films Micromachined ultrasonic transducers Thick film piezoelectric and magnetostrictive devices Pyroelectric microsystems RF bulk acoustic wave resonators and filters High frequency tunable devices MEMS for optical functionality Part B Materials fabrication technology and functionality Ceramic thick films for MEMS Piezoelectric thin films for MEMS Materials and technology in thin films for tunable high frequency devices Permittivity tunability and loss in ferroelectrics for reconfigurable high frequency electronics Microfabrication of piezoelectric MEMS Nano patterning methods for electroceramics Soft lithography emerging techniques The book is addressed to engineers scientists and researchers of various disciplines device engineers materials engineers chemists physicists and microtechnologists who are working and or interested in this fast growing and highly promising field The publication of this book follows a Special Issue on electroceramic based MEMS that was published in the Journal of Electroceramics at the beginning of 2004 The ten invited papers of that special issue were adapted by the authors into chapters of the present book and five additional chapters were added

Biochip Technology Jing Cheng, Larry J. Kricka, 2003-09-02 Biochip technology has experienced explosive growth in recent years and Biochip technology describes the basic manufacturing and fabrication processes and the current range of applications of these chips Top scientists from the biochip industry and related areas explain the diverse applications of biochips in gene sequencing expression monitoring disease diagnosis tumor examination ligand assay and drug discovery

Proceedings of the Eleventh International Symposium on Plasma Processing Electrochemical Society. Dielectric Science and Technology Division, 1996

Proceedings of the Symposium on High Rate Metal Dissolution Processes Madhav Datta, B. R. MacDougall, James M. Fenton, 1996

Henley's Formulas, Recipes and Processes Various, 2023-12-12 Henley's Formulas Recipes and Processes stands as an indispensable compendium for professionals across a variety of fields including chemistry engineering and industrial manufacturing This meticulously compiled reference work is rich with detailed formulations practical recipes

and processes that span a wide array of applications Its literary style is marked by an emphasis on clarity and precision reflecting the technical nature of the content while ensuring accessibility for practitioners Positioned within the broader context of scientific reference literature this volume serves as a testament to the evolving intersections of chemistry and practical application in the industrial age The book is a collaborative effort by various authors each bringing a wealth of experience and expertise from their respective fields This diversity is a significant asset as it allows the compendium to gather a wide spectrum of knowledge that collectively reflects the collective understanding and innovation of contemporary industry practices The authors commitment to fostering an understanding of complex scientific principles through practical applications is evident throughout the text indicative of a sincere endeavor to serve the working professional I highly recommend Henley s **Formulas Recipes and Processes** to anyone who seeks to deepen their understanding of practical science and improve their craft Whether you are an engineer chemist or tradesperson this authoritative guide will prove invaluable equipping you with the necessary tools to engage effectively with both everyday tasks and larger projects in your field

Laser Physics ,1998 Foundations of Nanomechanics Andrew N. Cleland,2002-10-18 This text provides an introduction at the level of an advanced student in engineering or physics to the field of nanomechanics and nanomechanical devices It provides a unified discussion of solid mechanics transducer applications and sources of noise and nonlinearity in such devices Demonstrated applications of these devices as well as an introduction to fabrication techniques are also discussed The text concludes with an overview of future technologies including the potential use of carbon nanotubes and other molecular assemblies

Metallographic Specimen Preparation J. McCall,2012-12-06 Metallography is much more than taking striking pictures at high magnifications or polishing and etching specimens in such a way that no scratches can be seen Basically metallography is the physical metallurgist s most useful and most used tool for studying metals Although it is perhaps his oldest tool it certainly is not likely to become obsolete Rather the continued demands that have been placed upon materials have required more detailed characterizations of their microstructures and this in turn has required the metallographer to develop new techniques to make these characterizations Not too many years ago the metallographer had only optical microscopes with which to examine his specimens Now he has electron microscopes scanning electron microscopes and a whole host of instruments which were unknown to him only a relatively few years ago This has forced him to learn not only how to use these new instruments and how to interpret the information that they provide but it also has made him develop new techniques for preparing the samples for examination

MEMS Materials and Processes Handbook Reza Ghodssi,Pinyen Lin,2011-03-18 MEMS Materials and Processes Handbook is a comprehensive reference for researchers searching for new materials properties of known materials or specific processes available for MEMS fabrication The content is separated into distinct sections on Materials and Processes The extensive Material Selection Guide and a Material Database guides the reader through the selection of appropriate materials for the required task at hand The

Processes section of the book is organized as a catalog of various microfabrication processes each with a brief introduction to the technology as well as examples of common uses in MEMS

Advanced Technologies Based on Wave and Beam Generated Plasmas H. Schlüter, A. Shivarova, 2013-06-29 This volume is based on the lectures at the NATO Advanced Study Institute entitled Advanced Technologies Based on Wave and Beam Generated Plasmas held at Sozopol Bulgaria from May 22 till June 1 1998 It attracted almost 100 participants from 16 different countries The meeting combined different types of scientists from advanced experts to aspiring young researchers It aimed at stimulating future development by providing across borders cross fertilization and exchanges between previously unconnected groups This is reflected in the contents of the volume which covers the lectures given The book also contains in a second part 43 poster presentations mostly from younger participants with valuable complementations and specifications to the lectures With its topics the Advanced Study Institute constitutes the first attempt to bring together in an organized manner three areas of work on plasma technologies advanced efforts based on wave generated high frequency plasmas on plasma assisted ion implantation and on electron beam generated plasmas

Silicon Carbide Microelectromechanical Systems For Harsh Environments Rebecca Cheung, 2006-06-29 This unique book describes the science and technology of silicon carbide SiC microelectromechanical systems MEMS from the creation of SiC material to the formation of final system through various expert contributions by several leading key figures in the field The book contains high quality up to date scientific information concerning SiC MEMS for harsh environments summarized concisely for students academics engineers and researchers in the field of SiC MEMS This is the only book that addresses in a comprehensive manner the main advantages of SiC as a MEMS material for applications in high temperature and harsh environments as well as approaches to the relevant technologies with a view progressing towards the final product a

Silicon Carbide Micro Electromechanical Systems for Harsh Environments Rebecca Cheung, 2006 This unique book describes the science and technology of silicon carbide SiC microelectromechanical systems MEMS from the creation of SiC material to the formation of final system through various expert contributions by several leading key figures in the field The book contains high quality up to date scientific information concerning SiC MEMS for harsh environments summarized concisely for students academics engineers and researchers in the field of SiC MEMS This is the only book that addresses in a comprehensive manner the main advantages of SiC as a MEMS material for applications in high temperature and harsh environments as well as approaches to the relevant technologies with a view progressing towards the final product Sample Chapter s Chapter 1 Introduction to Silicon Carbide SiC Microelectromechanical Systems MEMS 800 KB Contents Introduction to Silicon Carbide SiC Microelectromechanical Systems MEMS R Cheung Deposition Techniques for SiC MEMS C A Zorman et al Review of Issues Pertaining to the Development of Contacts to Silicon Carbide 1996 OCo2002 L M Porter Dry Etching of SiC S J Pearton Design Performance and Applications of SiC MEMS S Zappe Readership Academic researchers in MEMS and industrial engineers engaged in SiC

MEMS research **Micro Mechanical Systems** T. Fukuda, Wolfgang Menz, 1998-07-24 In ten sections this book describes the principles and technology of Micro Mechanical Systems Section one is a general introduction to the historical background and the parallels to microelectronics reviewing the motivation for microsystems and discussing microphysics and design and the evolution from microcomponents to microsystems Section two covers the areas of photolithographic microfabrication basic concepts of planar processing materials and processes Section three looks at micromachining by machine tools its history basic principles and preparation methods Section four discusses tribological aspects of microsystems Section five covers fabrication performance and examples of silicon microsensors Section six looks at electric and magnetic micro actuators for micro robots Section seven covers energy source and power supply methods Section eight covers controlling principles and methods of micro mechanical systems and section nine gives examples of microsystems and micromachines The final section discusses the future problems and outlook of micro mechanical systems *Advances in Porous Semiconductor Research* Thierry Djenizian, Nicolas Hans Voelcker, 2020-03-30 Henley's Twentieth Century Formulas, Recipes and Processes Gardner Dexter Hiscox, 2010-02-27 Thousands of recipes from the ingenious to the horrific are collected in these pages representing the cutting edge of science and technology in 1914 Poison antidotes pyrotechnics cosmetics fireproofing techniques cleaning formulas photography and spirits are just a small sampling of the subjects covered You will learn to clean pearls by baking them inside a loaf of bread or how to fix broken porcelain with glue extracted from a freshly dissected snail You will catch a glimpse of a world on the brink of the Great War when house keepers needed to detect the presence of formaldehyde in their milk or the ability to save rancid butter Not only will you see history more vividly than you ve ever seen it before you can recreate it A few pages on metal alloys pigments and celluloid have been omitted from the original Unabridged version available in hardcover **Low and High Dielectric Constant Materials** Rajendra Singh, 2000 *Materials Science & Engineering* ,2000 **Micromachined Thin-Film Sensors for SOI-CMOS Co-Integration** Jean Laconte, Denis Flandre, Jean-Pierre Raskin, 2006-10-11 Co integration of sensors with their associated electronics on a single silicon chip may provide many significant benefits regarding performance reliability miniaturization and process simplicity without significantly increasing the total cost Micromachined Thin Film Sensors for SOI CMOS Co integration covers the challenges and interests and demonstrates the successful co integration of gas flow sensors on dielectric membrane with their associated electronics in CMOS SOI technology We firstly investigate the extraction of residual stress in thin layers and in their stacking and the release in post processing of a 1 m thick robust and flat dielectric multilayered membrane using Tetramethyl Ammonium Hydroxide TMAH silicon micromachining solution The optimization of its selectivity towards aluminum is largely demonstrated The second part focuses on sensors design and characteristics A novel loop shape polysilicon microheater is designed and built in a CMOS SOI standard process High thermal uniformity low power consumption and high working temperature are confirmed by extensive measurements The

additional gas flow sensing layers are judiciously chosen and implemented Measurements in the presence of a nitrogen flow and gas reveal fair sensitivity on a large flow velocity range as well as good response to many gases Finally MOS transistors suspended on released dielectric membranes are presented and fully characterized as a concluding demonstrator of the co integration in SOI technology ,

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Table of Contents Platinum Etch Recipe

1. Understanding the eBook Platinum Etch Recipe
 - The Rise of Digital Reading Platinum Etch Recipe
 - Advantages of eBooks Over Traditional Books
2. Identifying Platinum Etch Recipe
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Platinum Etch Recipe
 - User-Friendly Interface
4. Exploring eBook Recommendations from Platinum Etch Recipe
 - Personalized Recommendations
 - Platinum Etch Recipe User Reviews and Ratings
 - Platinum Etch Recipe and Bestseller Lists
5. Accessing Platinum Etch Recipe Free and Paid eBooks
 - Platinum Etch Recipe Public Domain eBooks
 - Platinum Etch Recipe eBook Subscription Services
 - Platinum Etch Recipe Budget-Friendly Options
6. Navigating Platinum Etch Recipe eBook Formats

- ePub, PDF, MOBI, and More
- Platinum Etch Recipe Compatibility with Devices
- Platinum Etch Recipe Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Platinum Etch Recipe
 - Highlighting and Note-Taking Platinum Etch Recipe
 - Interactive Elements Platinum Etch Recipe
- 8. Staying Engaged with Platinum Etch Recipe
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Platinum Etch Recipe
- 9. Balancing eBooks and Physical Books Platinum Etch Recipe
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Platinum Etch Recipe
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Platinum Etch Recipe
 - Setting Reading Goals Platinum Etch Recipe
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Platinum Etch Recipe
 - Fact-Checking eBook Content of Platinum Etch Recipe
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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