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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
Aluminum (Al)	NaOH : Water	1:1	may be used at 25 C but etches faster at a higher temperature
Aluminum (Al)	H ₃ PO ₄	---	must be heated to 120 C
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

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Platinum Etch Recipe

**Electrochemical Society. Dielectric
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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 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 **Henley's Twentieth Century Formulas, Recipes and Processes**

Gardner Dexter Hiscox, 1927 **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 Proceedings of the Eleventh International Symposium on Plasma Processing Electrochemical Society. Dielectric Science and Technology Division, 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 **Henley's twentieth century formulas, recipes and processes** G.D. Hiscox,1930

Henley's Twentieth Century Book of Recipes, Formulas and Processes Gardner Dexter Hiscox,1910

Proceedings of the Symposium on High Rate Metal Dissolution Processes Madhav Datta,B. R. MacDougall,James M. Fenton,1996 *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 Henley's Twentieth Century Formulas, Recipes and Processes; Containing Ten Thousand Selected Household and Workshop, Formulas, Recipes, Processes and Money-saving Ideas Gardner Dexter Hiscox,1924 **Non-wettable Surfaces** Robin H A Ras,Abraham Marmur,2016-11-21 The objective of this book is to integrate information about the theory preparation and applications of non wettable surfaces in one volume By combining the discussion of all three aspects together the editors will show how theory assists the development of preparations methods and how these surfaces can be applied to different situations The book is separated into three sections first covering the theory then going on to preparation of these surfaces and finally discussing the applications in detail Edited by two of the most innovative contributors to the field of superhydrophobicity this book will be essential reading for materials scientists interested in any aspect of surface colloid and polymer science thermodynamics superhydrophobic and superhygrophobic surfaces **The MEMS Handbook** Mohamed

Gad-el-Hak,2001-09-27 The revolution is well underway Our understanding and utilization of microelectromechanical systems MEMS are growing at an explosive rate with a worldwide market approaching billions of dollars In time microdevices will fill the niches of our lives as pervasively as electronics do right now But if these miniature devices are to fulfill their mammoth potential today s engineers need a thorough grounding in the underlying physics modeling techniques fabrication methods and materials of MEMS The MEMS Handbook delivers all of this and more Its team of authors unsurpassed in their experience and standing in the scientific community explore various aspects of MEMS their design fabrication and applications as well as the physical modeling of their operations Designed for maximum readability without compromising rigor it provides a current and essential overview of this fledgling discipline **MEMS** Mohamed Gad-el-Hak,2005-11-29 Thoroughly revised and updated the new edition of the best selling MEMS Handbook is now presented as a three volume set that offers state of the art coverage of microelectromechanical systems Through chapters contributed by top experts and pioneers in the field MEMS Design and Fabrication presents a comprehensive look at the materials procedures tools and techniques of MEMS fabrication New chapters in this edition examine the materials and fabrication of polymer microsystems and optical diagnostics for investigating the entrance length in microchannels Rigorous yet accessible this volume provides the practical knowledge needed for work in cutting edge MEMS applications

Handbook of Electrochemistry Cynthia G. Zoski,2007-02-07 Electrochemistry plays a key role in a broad range of research and applied areas including the exploration of new inorganic and organic compounds biochemical and biological systems corrosion energy applications involving fuel cells and solar cells and nanoscale investigations The Handbook of Electrochemistry serves as a source of electrochemical information providing details of experimental considerations representative calculations and illustrations of the possibilities available in electrochemical experimentation The book is divided into five parts Fundamentals Laboratory Practical Techniques Applications and Data The first section covers the fundamentals of electrochemistry which are essential for everyone working in the field presenting an overview of electrochemical conventions terminology fundamental equations and electrochemical cells experiments literature textbooks and specialized books Part 2 focuses on the different laboratory aspects of electrochemistry which is followed by a review of the various electrochemical techniques ranging from classical experiments to scanning electrochemical microscopy electrogenerated chemiluminescence and spectroelectrochemistry Applications of electrochemistry include electrode kinetic determinations unique aspects of metal deposition and electrochemistry in small places and at novel interfaces and these are detailed in Part 4 The remaining three chapters provide useful electrochemical data and information involving electrode potentials diffusion coefficients and methods used in measuring liquid junction potentials serves as a source of electrochemical information includes useful electrochemical data and information involving electrode potentials diffusion coefficients and methods used in measuring liquid junction potentials reviews electrochemical techniques incl scanning

electrochemical microscopy electrogenerated chemiluminescence and spectroelectrochemistry State-of-the-Art Program on Compound Semiconductors : (SOTAPOCS XLII) and Processes at the Compound-Semiconductor/Solution Interface P. C. Chang, 2005 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 **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 Materials Science & Engineering, 2000 **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

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