



# Field Ion Microscopy

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## **Field Ion Microscopy:**

Field Ion Microscopy Erwin W. Müller, Tien Tzou Tsong, 1969      Field-Ion Microscopy John J. Hren, Srinivasa Ranganathan, 2013-11-11      **Field-Ion Microscopy** R. Wagner, 2012-12-06 Despite the recent progress in developing various microanalytical tools of better spatial resolution and more sensitivity to chemical analyses for the study of various defects in metallic solids the Field Ion Microscope FIM still remains the only instrument up to now to resolve single atoms in the surface of a metal Fifteen years after Milller invented the FIM he was also the first to combine the FIM with a time of flight ToF mass spectrometer the so called Atom Probe FIM to identify the chemical nature of single atoms imaged in the FIM2 Originally the motivation to develop the ToF atom probe was to use this method to obtain some more fundamental understanding of field ionization and field evaporation the most basic physical processes in field ion microscopy Even after the successful combination of a FIM with a ToF atom probe had been accomplished the technique was rarely applied to metallurgical investigations since for a fairly long period only refractory metals such as tungsten molybdenum iridium etc could be imaged in the FIM However these metals do not play a very important role in metallurgy Only when Turner et al substituted the conventional phosphorescent screen of the field ion microscope with micro channel electron multiplier arrays termed micro channel plates did it become possible to image in the FIM the less refractory metals like Fe Cu Ni and even Al

*Atom-Probe Field Ion Microscopy* Tien T. Tsong, 1990-08-30 Atom probe field ion microscopy is the only technique capable of imaging solid surfaces with atomic resolution while chemically analysing surface atoms selected by the observer from the field ion image This book presents the basic principles and illustrates the capabilities of the technique in the study of solid surfaces and interfaces at atomic resolution      *Atom-probe Field Ion Microscopy and Its Applications* Toshio Sakurai, A. Sakai, H. W. Pickering, 1989      **Helium Ion Microscopy** Gregor Hlawacek, Armin Gölzhäuser, 2016-10-04 This book covers the fundamentals of Helium Ion Microscopy HIM including the Gas Field Ion Source GFIS column and contrast formation It also provides first hand information on nanofabrication and high resolution imaging Relevant theoretical models and the existing simulation approaches are discussed in an extra section The structure of the book allows the novice to get acquainted with the specifics of the technique needed to understand the more applied chapters in the second half of the volume The expert reader will find a complete reference of the technique covering all important applications in several chapters written by the leading experts in the field This includes imaging of biological samples resist and precursor based nanofabrication applications in semiconductor industry using Helium as well as Neon and many more The fundamental part allows the regular HIM user to deepen his understanding of the method A final chapter by Bill Ward one of the pioneers of HIM covering the historical developments leading to the existing tool complements the content      **Helium Ion Microscopy** David C. Joy, 2013-09-13 Helium Ion Microscopy Principles and Applications describes the theory and discusses the practical details of why scanning microscopes using beams of light ions such as the Helium Ion Microscope HIM are destined to

become the imaging tools of choice for the 21st century Topics covered include the principles operation and performance of the Gaseous Field Ion Source GFIS and a comparison of the optics of ion and electron beam microscopes including their operating conditions resolution and signal to noise performance The physical principles of Ion Induced Secondary Electron iSE generation by ions are discussed and an extensive database of iSE yields for many elements and compounds as a function of incident ion species and its energy is included Beam damage and charging are frequently outcomes of ion beam irradiation and techniques to minimize such problems are presented In addition to imaging ions beams can be used for the controlled deposition or removal of selected materials with nanometer precision The techniques and conditions required for nanofabrication are discussed and demonstrated Finally the problem of performing chemical microanalysis with ion beams is considered Low energy ions cannot generate X ray emissions so alternative techniques such as Rutherford Backscatter Imaging RBI or Secondary Ion Mass Spectrometry SIMS are examined The Field Ion Microscopy of Gold Dieter Gerhard Ast,1971

**Electron and Ion Microscopy and Microanalysis** Lawrence Eugene Murr,1982 *Field Ion Microscopy, Field Ionization and Field Evaporation* E. W. Müller,T. T. Tsong,1973 **Field-Ion Microscopy** John J. Hren,Srinivasa Ranganathan,2014-01-15 **Field Ion Microscopy, Field Ionization and Field Evaporation** Erwin W. Müller,Tien Tzou Tsong,1973-01-01 **Field-ion Microscopy** K. M. Bowkett,David Anthony Smith,1970 This 432 page reference presents EPA guidance on CAA stationary source compliance including The full text of 63 of EPA s most important interpretive documents Indexes by CAA program major topic equipment type pollutant facility process and CFR citation Comprehensive quick subject reference to the pertinent EPA material Accurate tracking of guidance documents that refer to one another including which documents clarify or expand on others and which have been superseded *Field Ion Microscopy of Iron Whiskers* Edwin W. Müller,Osamu Nishikawa,1963 Field ion microscopy of non refractory metals was improved by the use of neon and neon helium gas mixtures A limited number of iron whiskers was observed and found to contain a high density of lattice defects such as impurity atoms single dislocations and dense dislocation areas of an almost amorphous structure particularly in the 111 region The latter defect is an artifact caused by the stress of the evaporation field Further progress will depend upon a reduction of this field and the use of an image intensifier Author **Atom-probe Field Ion Microscopy** Tien T. Tsong,1990 **Field Ion Microscopy and a Study of the Tungsten-carbon Alloy System** R. D. French,Marc H. Richman,Brown University. Division of Engineering,United States. Advanced Research Projects Agency,1966

**Applications of Field-ion Microscopy in Physical Metallurgy and Corrosion** Robert F. Hochman,Robert Francis Hochman,Erwin W. Müller,Brian Ralph,1969 *Field Ion Microscopy of Surface Structures on an Atomic Scale* E. W. Müller,1963 The preceding papers of this symposium have shown how much of our knowledge on surfaces has been derived from the interpretation of molecular processes at the gas solid interface Most of these experiments are of a rather macroscopic nature With the field emission microscope and particularly with its more recent version the field ion microscope

we now have research tools that permit direct visual observations of molecular adsorption films and of the atomic structure of metal surfaces In this paper the field emission microscope will be discussed only briefly to outline its range of application and to show the progress made possible by the introduction of an imaging process with positive ions The results of field ion microscopy of atomic surface structures of metals will then be represented in more detail **Field Ion Microscopy;**

**Principles and Applications, by Erwin W. Muller and Tien Tzou Tsong** Erwin W. Muller, Tien Tzou Tsong, 1969

**Electron and Ion Microscopy and Microanalysis** Lawrence E Murr, 2018-10-08 The publication date of the first edition is not stated but the new edition is apparently considerably revised and expanded It was written to serve as a multi purpose text at the senior or graduate level and as a reference for the practicing scientist or engineer Readers should have a math backgr

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