gated via nucleation of dimers at 40 K and subsequent annealing to 110 K and 150 K respectively. The homogeneous spatial distribution and the narrow range of sizes are obvious in both STM

The diffusion barrier of the pre-macleated dimers is twice as high as that of Ag adatoms10 and the dimers are stable over an extended temperature range (Fig. 2). On annealing the surface to temperatures >100 K, dimer diffusion and/or dissociation and subsequent adatom diffusion sets in, resulting in the formation of larger clusters by coalesence. The size of these clusters depends exponentially on the annealing temperature.

Diffusion-controlled aggregation can also be used to synthesize one-dimensional aggregates. One-dimensional systems have, indeed, been the focus of much interest because of their unique behaviour and the fact that certain problems can be solved exactly for these systems11. The growth of one-dimensional aggregates makes use of the directional anisotropy of A. (ref. For surfaces with C_{2e} symmetry, there are two different migration barriers, representing two orthogonal directions. An example is the diffusion of Cu atoms on the Pd (110) surface, where the migration barriers are 0.76 and 0.51 eV for the orthogonal [001] and [110] directions, respectively13. The value of A. [110] is thus larger than A, [100] giving rise to a faster growth rate along the [1]01 channels. With decreasing deposition temperature, the ratio of the rate of diffusion along the close-packed direction to that in the perpendicular direction increases. It should therefore be possible to freeze out cross-channel diffusion along [100] while diffusion along the [110] channels is still sufficiently fast. Under such favourable conditions, exclusively one-dimensional chains of adatoms should grow along the [110] direction of the surface.

The experimental realization of such a situation is shown in Fig. 36, in which Cu aggregates are grown and imaged on the Pd (110) surface at 300 K. At this temperature, the jump rate in the easy [110] direction is 104 times higher than that across the channel walls (assuming approximately equal prefactors.") and we observe the aggregation of long monatomic Cu chains with lengths up to several hundred Å. The average length of these one-dimensional Cu wires can be tailored, for example by varying the deposition temperature. Because diffusion along [100] is already negligible at 300 K, nucleation at temperatures <300 K will also result in the aggregation of one-dimensional chains, the average length of which will decrease with decreasing temperature (that is, decreasing A,[110]). Whereas at 300 K for a total coverage of 0.05 ML the monatomic Cu chains consist of an averse of 130 Cu atoms, at 180 K (at the same coverage) the average chain is composed of only 10 Cu atoms.

The monatomic Cu chains aggregated on the Pd (110) surface are metastable nanostructures. Upon a short anneal to, or direct growth at, 350 K, two-dimensional lens-shaped islands, several atomic rows wide, are formed. This is demonstrated in Fig. 3c. which shows the structure produced by growth at 350 K: twodimensional Cu islands with an average aspect ratio of 15 are formed. The metastable character of the long one-dimensional Cu chains is not surprising. Field ion microscopy measurements¹³⁻¹⁷ and molecular dynamics calculations¹⁸ have revealed that in general the linear one-dimensional clusters constitute the equilibrium structure only at small sizes (n < 10). For Cu on Pd (110), however, recent molecular dynamics simulations" reveal that at 0 K one-dimensional chains (which can be very long) are the energetically preferred structures. It appears to be the entropy gain associated with the transition from one to two dimensions that drives the Cu aggregates on Pd (110) to two-dimensional structures at elevated temperatures".

This approach of diffusion-controlled aggregation for the synthesis of one- and two-dimensional matter is not restricted to the systems discussed, nor to metal aggregates on metal surfaces. Diffusion-controlled aggregation is applicable for all growth systems in the kinetic regime (including metals on semiconductors or insulators), and one should always be able to find a tempera-

ture window in which one- or two-dimensional aggregates (substrates with directionally anisotropic diffusion) can be produced by manipulating A, and A,...

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Atomic-resolution chemical analysis using a scanning transmission electron microscope

N. D. Browning, M. F. Chisholm & S. J. Pennycook

Solid State Division, Oak Ridge National Laboratory, PO Box 2006, Oak Ridge, Tennessee 37831-6030, USA

Tim: high angle elastic scattering of electrons in scanning transmission electron microscopy depends strongly on the atomic number Z. of the sample atoms, through the Z^2 dependence of the Rutherford scattering cross-section'. The detection of scattered electrons at high angles and over a large angular range (75-150 milliradians) removes the coherent effects of diffraction, and the resulting incoherent image provides a compositional map of the sample with high atomic-number contrast". If a fine electron probe is used, and the sample is a crystalline material oriented along one of its principal axes, individual columns of atoms can be imaged in this way. Electrons scattered at low angles are not used in this detection scheme, and are thus available for simultaneous electron energyloss spectroscopy'; in principle, this combination of techniques. should allow the direct chemical analysis of single atomic columns in crystalline materials. Here we present electron energy-loss spectra from expitaxial interfaces between cobalt silicide and silicon, which confirm that atomic resolution can be achieved by this approach. The ability to correlate structure and chemistry with atomic resolution holds great promise for the detailed study of defects and interfaces.

The basis of obtaining electron energy-loss spectra (EELS) with atomic resolution is the high-resolution Z-contrast imaging technique in the scanning transmission electron microscope (STEM) (Fig. 1). Using the high-angle annular dark-field detector makes thermal diffuse scattering the dominant contribution to the detected intensity and allows us to consider each atom as scattering independently with a cross-section that approaches the Z^2 dependence on atomic number. For thin specimens, where there is no dynamical diffraction, the detected intensity will

Electron Microscopy And Analysis 1993

Kvetoslav R. Spurny

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Electron Microscopy and Analysis 1993, Proceedings of the Institute of Physics Electron Microscopy and Analysis Group Conference, University of Liverpool, 14-17 September 1993 A. J. Craven,1994 These proceedings cover developments in imaging diffraction and spectroscopy in the electron microscope together complementary and competing techniques such as scanning optical and scanning stylus microscopies A valuable reference source for researchers involved in the use of electron microscopy in physics materials science and chemistry Electron Microscopy and Analysis 1993 Institute of Physics.

Electron Microscopy and Analysis Group,1993 Index of Conference Proceedings British Library. Document Supply Centre,1996 Encyclopedia of Surface and Colloid Science P. Somasundaran,2006 Cumulated Index Medicus, 1994

Structure and Performance of Cements, Second Edition P. Barnes, J. Bensted, 2002-11-01 Drawing together a multinational team of authors this second edition of Structure and Performance of Cements highlights the latest global advances in the field of cement technology Three broad categories are covered basic materials and methods cement extenders and techniques of examination Within these categories consideration has been given to environmental issues such as the use of waste materials in cement burning as supplementary fuels and new and improved methods of instrumentation for examining structural aspects and performance of cements This book also covers cement production mineralogy and hydration as well as the mechanical properties of cement and the corrosion and durability of cementitious systems Special cements are included along with calcium aluminate and blended cements together with a consideration of the role of gypsum in cements Structure and Performance of Cements is an invaluable key reference for academics researchers and practitioners alike

Postdoctoral Research Fellowship Opportunities National Institutes of Health (U.S.),1995

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Analytical Chemistry of Aerosols Kvetoslav R. Spurny, 2017-11-22 Until the 1980s researchers studied and measured only the physical properties of aerosols Since the 80s however interest in the physicochemcal properties of aerosols has grown tremendously Scientists in environmental hygiene medicine and toxicology have recognized the importance held by the chemical composition and properties of aerosols and the interactions of inhaled bad aerosols This book offers the first comprehensive treatment of modern aerosol analytical methods sampling and separation procedures and environmental applications and offers critical reviews of the latest literature This important field has developed rapidly in the last 15 years but until now no book effectively summarized or analyzed the existing research Analytical Chemistry of Aerosols reviews procedures techniques and trends in the measurement and analysis of atmospheric aerosols With contributions from acknowledged international experts the book discusses various methods of bulk analysis single particle analysis and the analysis of special aerosol systems including fibrous and bacterial aerosols Masters Theses in the Pure and Applied Sciences Wade H. Shafer, 2012-12-06 Masters Theses in the Pure and Applied Sciences was first conceived published and disseminated by the Center for Information and Numerical Data Analysis and Synthesis CINDAS at Purdue University in 1957 starting its coverage of theses with the academic year 1955 Beginning with Volume 13 the printing and dis semination phases of the activity were transferred to University Microfilms Xerox of Ann Arbor Michigan with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volumes were handled by an international publishing house to assure improved service and broader dissemination Hence starting with Volume 18 Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York and in the same year the coverage was broadened to include Canadian universities All back issues can also be ordered from Plenum We have reported in Volume 38 thesis year 1993 a total of 13 787 thesis titles from 22 Canadian and 164 United States universities We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work While Volume 38 reports theses submitted in 1993 on occasion

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Table of Contents Electron Microscopy And Analysis 1993

- 1. Understanding the eBook Electron Microscopy And Analysis 1993
 - The Rise of Digital Reading Electron Microscopy And Analysis 1993
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Electron Microscopy And Analysis 1993
 - 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 Electron Microscopy And Analysis 1993
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Electron Microscopy And Analysis 1993
 - Personalized Recommendations
 - Electron Microscopy And Analysis 1993 User Reviews and Ratings
 - Electron Microscopy And Analysis 1993 and Bestseller Lists
- 5. Accessing Electron Microscopy And Analysis 1993 Free and Paid eBooks

- Electron Microscopy And Analysis 1993 Public Domain eBooks
- Electron Microscopy And Analysis 1993 eBook Subscription Services
- Electron Microscopy And Analysis 1993 Budget-Friendly Options
- 6. Navigating Electron Microscopy And Analysis 1993 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Electron Microscopy And Analysis 1993 Compatibility with Devices
 - Electron Microscopy And Analysis 1993 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Electron Microscopy And Analysis 1993
 - Highlighting and Note-Taking Electron Microscopy And Analysis 1993
 - Interactive Elements Electron Microscopy And Analysis 1993
- 8. Staying Engaged with Electron Microscopy And Analysis 1993
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electron Microscopy And Analysis 1993
- 9. Balancing eBooks and Physical Books Electron Microscopy And Analysis 1993
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electron Microscopy And Analysis 1993
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electron Microscopy And Analysis 1993
 - Setting Reading Goals Electron Microscopy And Analysis 1993
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electron Microscopy And Analysis 1993
 - Fact-Checking eBook Content of Electron Microscopy And Analysis 1993
 - 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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