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

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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

A. J. Craven

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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 **Encyclopedia of Surface and Colloid Science** Progress in Nanoscale Characterization and Manipulation Rongming Wang, Chen Wang, Hongzhou P. Somasundaran, 2006 Zhang, Jing Tao, Xuedong Bai, 2018-08-30 This book focuses on charged particle optics and microscopy as well as their applications in the materials sciences Presenting a range of cutting edge theoretical and methodological advances in electron microscopy and microanalysis and examining their crucial roles in modern materials research it offers a unique resource for all researchers who work in ultramicroscopy and or materials research The book addresses the growing opportunities in this field and introduces readers to the state of the art in charged particle microscopy techniques It showcases recent advances in scanning electron microscopy transmission electron microscopy and helium ion microscopy including advanced spectroscopy spherical corrected microscopy focused ion imaging and in situ microscopy Covering these and other essential topics the book is intended to facilitate the development of microscopy techniques inspire young researchers and make a valuable contribution to the field **Index of Conference Proceedings** British Library. Document Supply Centre, 1996 Scientific Photography and Applied Imaging Sidney Ray, 1999-08-02 WINNER OF THE 2001 KRASZNA KRAUSZ PHOTOGRAPHY BOOK AWARD Technical Photography category The only definitive book to fully encompass the use of photography and imaging as tools in science technology and medicine It describes in one single volume the basic theory techniques materials special equipment and applications for a wide variety of uses of photography including close up photography and photomacrography to spectral recording surveillance systems radiography and micro imaging This extensively illustrated photography bible contains all the information you need whether you are a scientist wishing to use photography for a specialist application a professional needing to extend technical expertise or a student wanting to broaden your knowledge of the applications of photography The contents are arranged in three sections General Section detailing the elements of the image capture process Major Applications describing the major applications of imaging Specialist Applications presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance followed by explanations of essential theory and an overview of techniques and equipment Mathematics is only used where necessary Numerous applications and case studies are described Comprehensive bibliographies and references are provided for further study **Postdoctoral Research Fellowship Opportunities**

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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
 - 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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