

Advances in Scanning Probe Microscopy Research

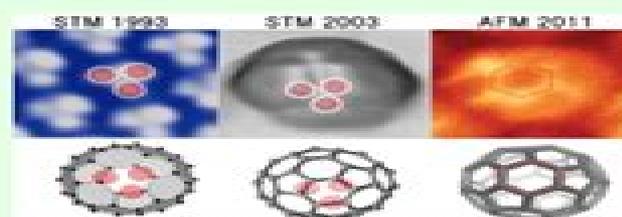
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In this review, advances in scanning probe microscopy (SPM) from the last two decades are presented. Progress in analyzing C_{60} molecules is described as an example of molecular imaging quality improvement for each decade. Innovations and progress in SPM imaging techniques are then outlined, especially atomic force microscopy operating in ultrahigh vacuum (UHV) or in aqueous environments, and the widely spread low-temperature and/or high-performance UHV scanning tunneling microscopy.

Keywords: Scanning probe microscopy; Surface property; Vacuum; Atmospheric; Aqueous



I. INTRODUCTION

This study provides an overview of the last 20 years of scanning probe microscopy (SPM). It particularly focuses on the remarkable advances in ultrahigh vacuum (UHV) and aqueous atomic force microscopy (AFM), as well as on research using the widely spread UHV scanning tunneling microscopy (STM). There has also been progression of other technologies and expansion of research in SPM, which are mentioned in the Future Outlook section. All these research projects have or will lead to important technological innovations.

II. ADVANCES in C_{60} MOLECULE IMAGING

C_{60} was first reported in 1985 by Kroto, Smalley, Curl *et al.* [1, 2], and since then, large-scale synthesis and purification methods have been developed. There has been extensive research on higher fullerenes, endohedral metallofullerenes, and fullerene derivatives [3].

A. Density of states mapping of C_{60} molecules

STM maps the density of electronic states near the Fermi level on the sample surface, and information on the unoccupied/occupied electronic states of the sample is obtained by the positive/negative sample voltage respect to the probe.

Initially, STM images of the fullerene molecules appeared to show uniform electronic states, and striated internal structure was also observed [4]. However, the highly symmetrical internal structure of C_{60} was observed in $Cu(111)-4\times 4-C_{60}$ monolayer phases at room temperature, and it was reported [5] that this internal structure mapped the electronic state of C_{60} molecules, combining first-principle calculations and STM (Figure 1). This report was the first to confirm that the



Figure 1: STM images of C_{60} molecules in a $Cu(111)-4\times 4-C_{60}$ monolayer phase with sample bias voltages of (a) -2.0 V, (b) -0.10 V, and (c) 2.0 V [5]. (d, e) Ball-and-stick models of a C_{60} molecule. Marked areas in (a, d) and (c, e) correspond to filled (π) and empty (π^*) electronic density states of $C=C$ double bonds, respectively.

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