

专刊

## Charge transfer of 1 ML C<sub>60</sub>/Ag(100)

王晓雄<sup>1</sup>, 李宏年<sup>2</sup>, 王鹏<sup>2</sup>, 倪敬付<sup>2</sup>, 王嘉欧<sup>3</sup>, 钱海杰<sup>3</sup>, 奎热西<sup>3</sup>, 易卜拉欣<sup>3</sup>

1 College of Science, Nanjing University of Science and Technology, Nanjing 210094, China

2 Department of Physics, Zhejiang University, Hangzhou 310027, China

3 Laboratory of Synchrotron Radiation, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049, China

收稿日期 2008-12-18 修回日期 2009-4-3 网络版发布日期 2009-9-28 接受日期 2009-9-28

摘要

We have measured the synchrotron radiation photoelectron spectra of monolayer C<sub>60</sub> on Ag(100). By calculating the intensity ratios between the LUMO bands and the two deeper bands (HOMO and HOMO-1), we estimate the amount of the charges transferred from Ag(100) to C<sub>60</sub> within the range of 1 e to 1.8 e. The results dismay the expectation of surface superconductivity and afford a good reference for further studies of the monolayer C<sub>60</sub>/Ag(100) system.

关键词

[1 ML C<sub>60</sub>/Ag\(100\), charge transfer, photoelectron spectroscopy](#)

分类号

DOI:

通讯作者:

王晓雄 [xiaoxiong\\_wang@yahoo.com.cn](mailto:xiaoxiong_wang@yahoo.com.cn)

作者个人主页:

王晓雄<sup>1</sup>; 李宏年<sup>2</sup>; 王鹏<sup>2</sup>; 倪敬付<sup>2</sup>; 王嘉欧<sup>3</sup>; 钱海杰<sup>3</sup>; 奎热西<sup>3</sup>; 易卜拉欣<sup>3</sup>

### 扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(1217KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献\[PDF\]](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [引用本文](#)

▶ [Email Alert](#)

相关信息

▶ [本刊中 包含 “](#)

[1 ML C<sub>60</sub>/Ag\(100\), charge transfer, photoelectron spectroscopy](#)

” 的 相关文章

▶ 本文作者相关文章

· [王晓雄](#)

· [李宏年](#)

· [王鹏](#)

· [倪敬付](#)

· [王嘉欧](#)

· [钱海杰](#)

· [奎热西](#)

· [易卜拉欣](#)