

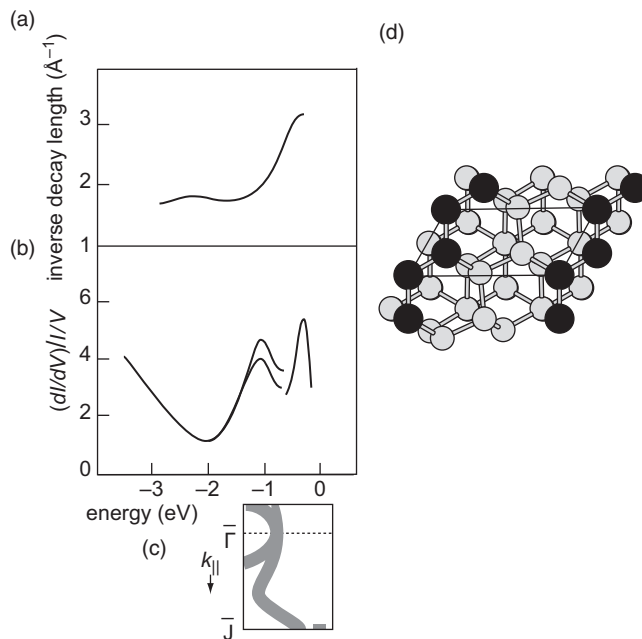


Fig. 5.40 Summary of results on the occupied LDOS of the Si{111}(2×1) surface revealed by STS and ARPES. Panels (a) and (b) present inverse decay length and the ST spectra from this surface, shown as smooth lines drawn through the original experimental data points of Stroscio *et al.* (1986). Panel (c) shows a simplified representation of the main features of the surface band structure obtained in the ARPES study of Bussetti *et al.* (2011). Panel (d) is a schematic of the surface structure with the outermost buckled chain of Si atoms shown with dark shading.