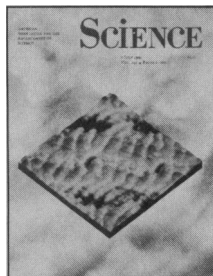


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COVER Molecules of 10-alkylcyanobiphenyl condensed onto the surface of graphite are imaged with the scanning tunneling microscope (STM). The image is seen over an enlargement. The 56 by 56 Å² image has a height range of 1 Å, where red is highest and blue is lowest. The STM is sensitive to the different functional groups of the molecule; the biphenyl groups appear in the image as red ovals and the alkyl groups as green tails. See page 43. [Photograph by Douglas P. E. Smith; computer graphics by Michael Niksch and Lloyd LaComb, Jr., using a silicon Graphics Iris computer]

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