



**Construction of artificial graphene nanoribbons.** (a) Illustration of the atomic manipulation process used to move CO molecules on a Cu (111) surface. (b) (left panel) Identification of a non-trivial nanoribbon, (middle panel) mapping the corresponding CO positions on Cu (111) to obtain the analogous structure and (right panel) STM topography of the realized artificial GNR with  $d_{\text{CO-CO}} = 1.0 \text{ nm}$  ( $I_{\text{set}} = 0.5 \text{ nA}$ ,  $V_{\text{set}} = 750 \text{ mV}$ ). (*ACS Nano*, <https://doi.org/10.1021/acsnano.2c04361>, 2022)