Molecule assembly structure and tilt geometry evaluation of 5,6,7-trithiapentacene-13-one (TTPO) / Pentacene-Quinone on Au(111) with NC-AFM.

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Supplemental document

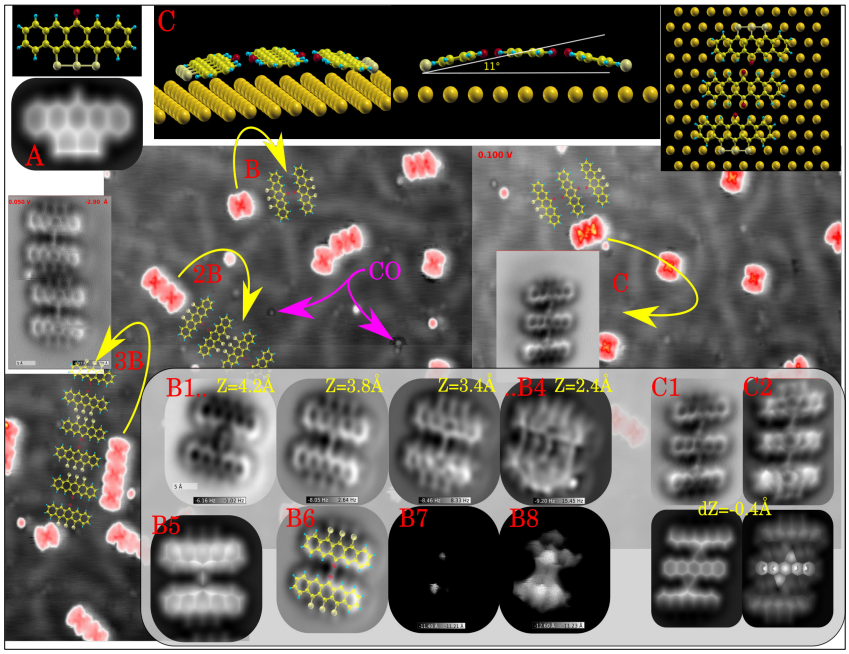

Fig.: Model for molecule tilt determination using series of NC-AFM const. height force maps of TTPO on Au(111).

A: TTPO flat AFM simulation reference [1,2].

B: TTPO tilted dimer assembly. B1..4 select constant height scans at Z=4.2Å, 3.8Å, 3.4Å, 2.4Å. B5: mechanical probe particle simulation [3]. B6: AFM data with dimer model. B7,8: B3,4 matching const. height (back) topographs from fuzzy-regulation with current compliance [4].

C: 2TTPO (tilted) Pentacene-Quinone on Au(111) assembly .

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