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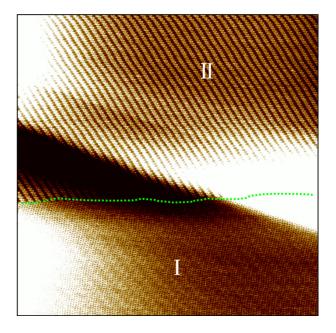
## **Supplementary Information**

## Two-dimensional self-assembly of single-crystal, poly-crystal and co-crystal at the liquid/solid interface

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**Fig. S1** Large-scale STM image of **C2** self-assembly at 1-phenyloctane/ HOPG interface showing the coexistence of two types of structures (Type I and Type II). Scan area: 200 nm  $\times$  200 nm; Tunneling conditions:  $V_{\text{bias}} = 764 \text{ mV}$ ,  $I_{\text{t}} = 482 \text{ pA}$ .