Electronic Supplementary Information for

Generic Nature of Long-Range Repulsion Mechanism on a Bulk Insulator?

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Full list of molecules

In this work, we have investigated twenty-eight different benzoic acid derivatives containing a single phenyl ring. A full list of all molecules is given below. From these twenty-eight molecules, we marked those with grey colour that form stable, unidirectional molecular stripes when deposited onto calcite (10.4) held at room temperature.
From these molecules, the following species have been investigated on calcite (10.4) in previous publications:

3-HBA, 1, 2 4-HBA, 2 2,3-DHBA, 2 2,4-DHBA, 2 2,5-DHBA, 2,6 2,6-DHBA, 2 3,4-DHBA, 2 3,5-DHBA, 2 4-IBA, 4, 7 2,5-DIBA, 4 2,5-DCBA, 4 3,5-DISA, 4 TPA, 8 and TMA. 8

Movie to illustrate 3-HBA mobility

AFM movie of 3-HBA on calcite at room temperature. The image size is 260 nm x 260 nm. The movie consists of 92 consecutive images acquired within 13 hours and 13 min.

References