

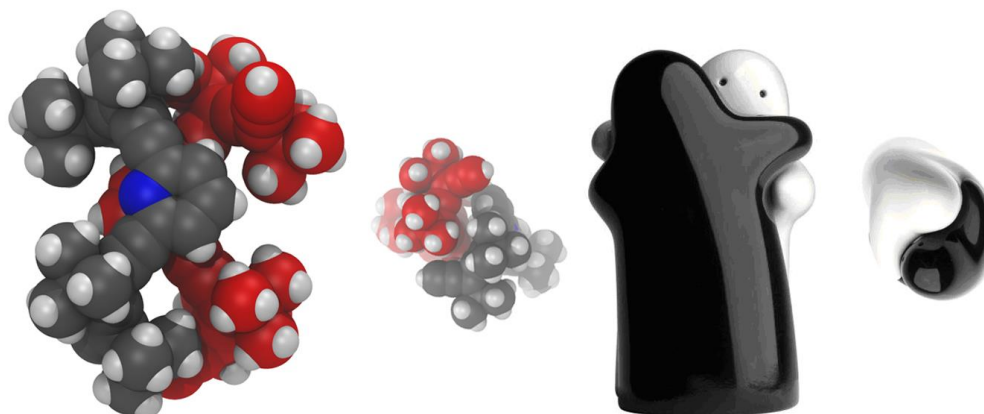
Chirality Transfer from Single Molecules to Surface-Confined Nanostructures

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Frameworks bearing chiral axis and aromatic spacers have been used for the construction of surface-confined **Upstanding Chiral Architectures (UCAs)**.¹ Gas-phase characterization, low-temperature scanning tunneling microscopy and molecular-dynamics simulations reveal that the dominance of molecule–molecule over molecule–substrate interactions leads to regular diastereomeric domains of **UCAs** with the optically active units being largely decoupled from the substrate. The outstanding chiroptical responses presented by axially chiral derivatives along with the opportunity to further functionalization via the terminal alkyne exposed on top of the monolayer-thin architectures make such UCAs promising key ingredients for chiroptical sensing applications.



1 Zhang, Y.-Q.; Öner, M. A.; Lahoz, I. R.; Cirera, B.; Palma, C.-A.; Castro-Fernández, S.; Míguez-Lago, S.; Cid, M. M.; Barth, J. V.; Alonso-Gómez, J. L.; Klappenberger, F. *Chem. Commun.* **2014**, *50*, 15022–15025.