Supplementary Information

for the manuscript

Conformational Influence of Quinoline Moieties in the Crystal Packing of Bis-Carboxamidoquinolines Derivatives

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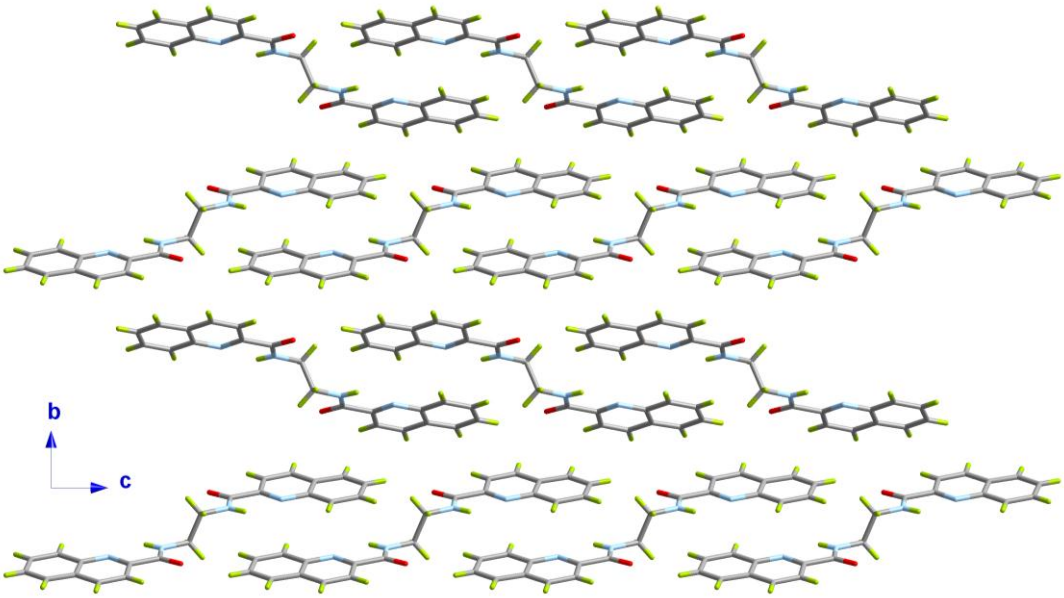
a)



b)

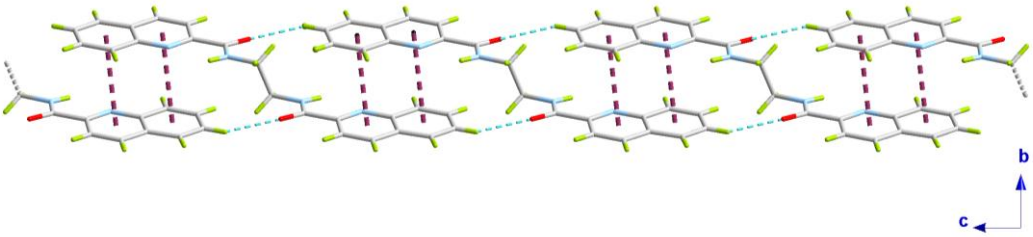


Figure S1. a) A view of the crystal packing of **4a** along the crystallographic *a* axis. **b)** A view along the *a* axis of the supramolecular layer formed by the π-π stacking of the quinoline groups and C–H···O interactions.

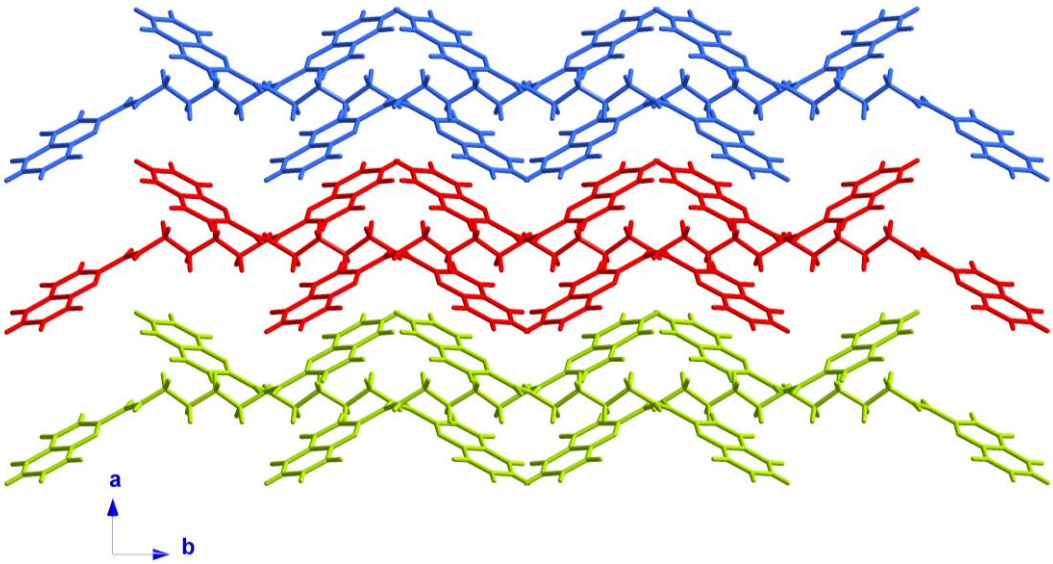


Figure S2. A view of the crystal packing of **4b** along the crystallographic *c* axis. Each supramolecular (4,4)-net is depicted in a different colour. The valleys face the hills of the adjacent layer, leading to a regular stacking along the *a* direction following an *ABABAB* sequence.

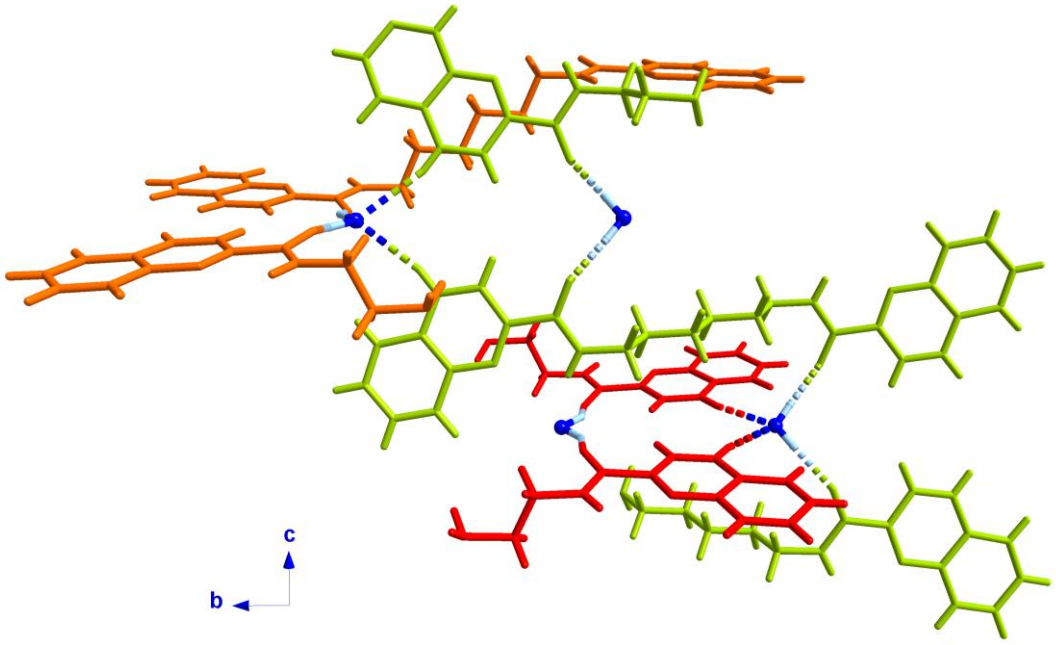


Figure S3. A view along the *a* axis of the interconnection through C–H···O hydrogen bonds of the two crystallographically independent supramolecular chains of **5c**. The chain in green is growing in the [001] direction, while those in orange and red does it in the [201] direction.

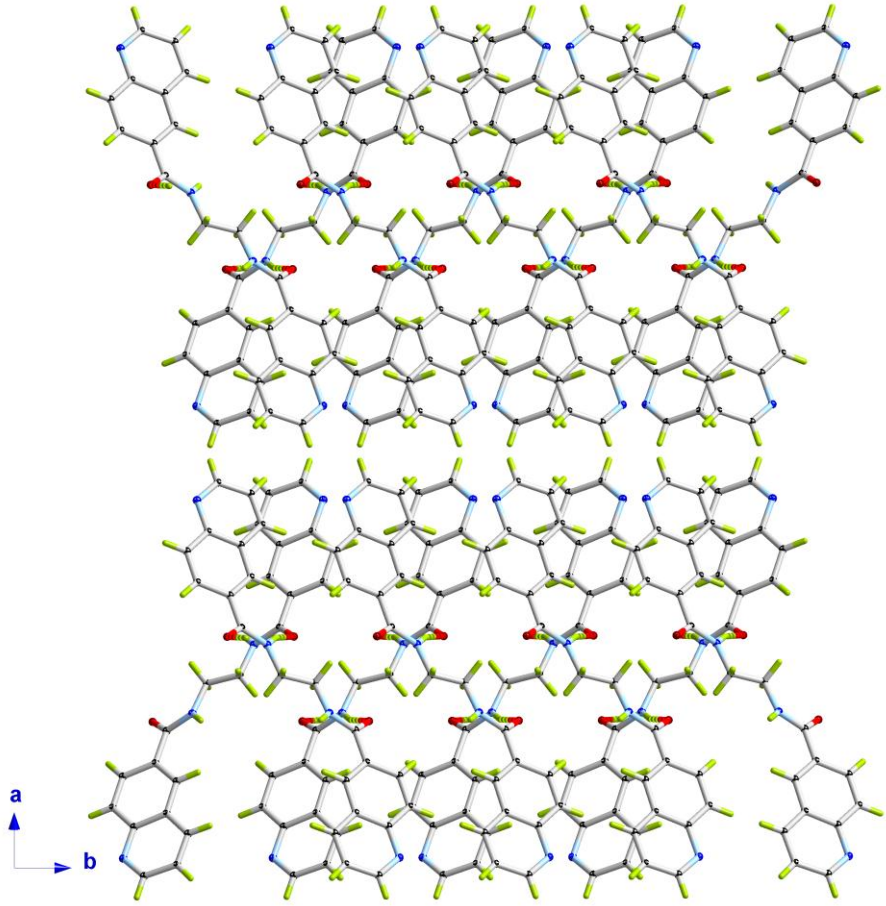


Figure S4. A view of the crystal packing of **5a** along the *c* direction.

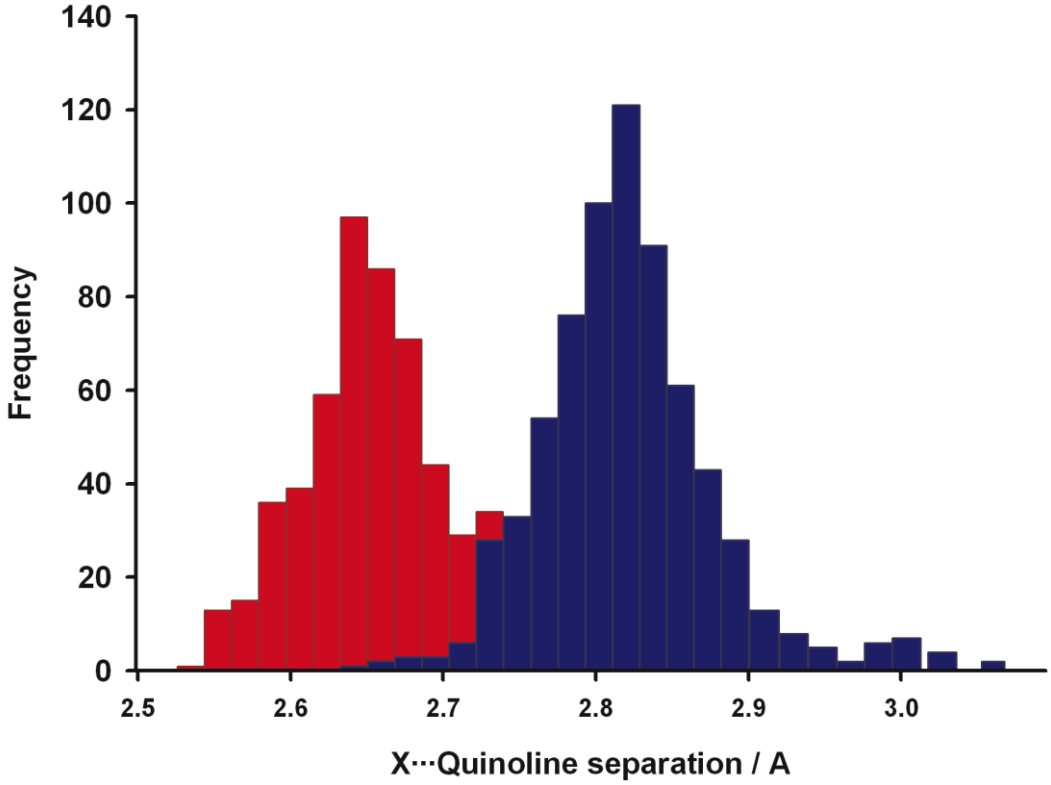
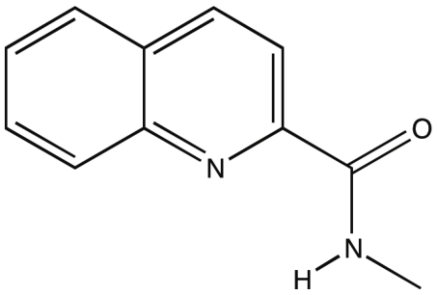


Figure S5. Histogram of the frequency of N···N(quinoline) (in red) and O···C(quinoline) (in blue) bond separations when the fragment shown in Scheme S1 is surveyed in the CSD database.



Scheme S1

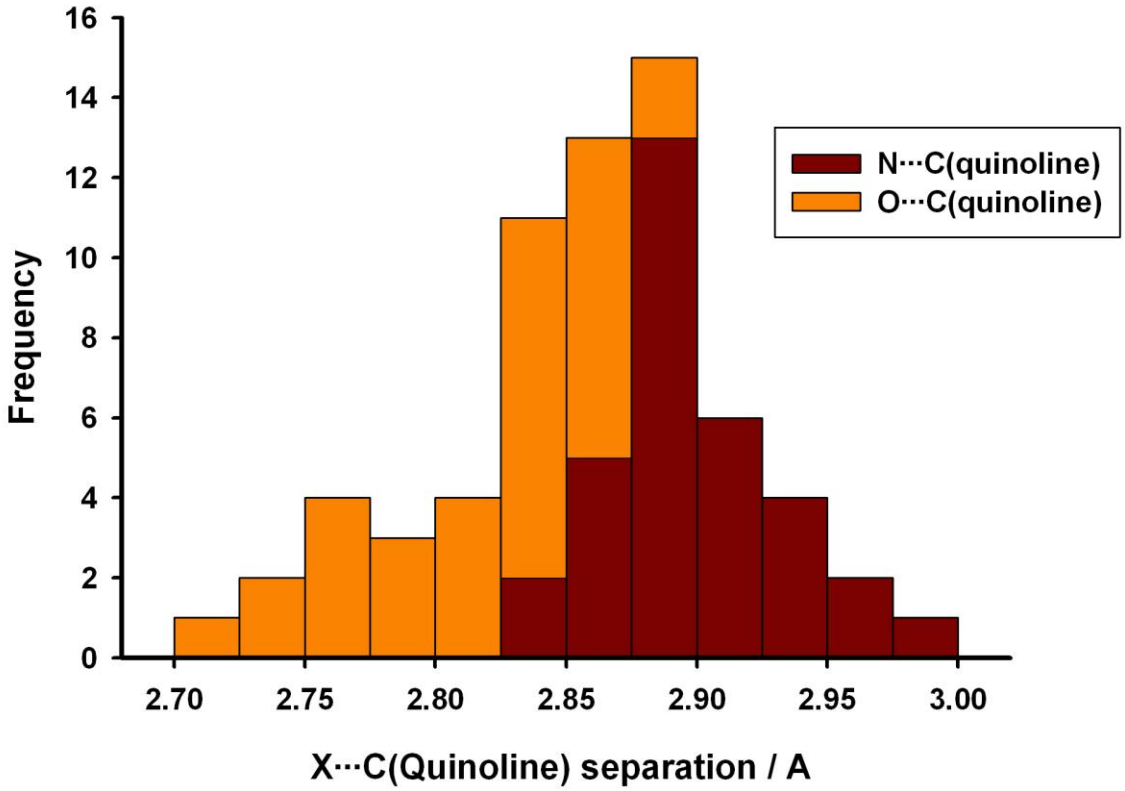
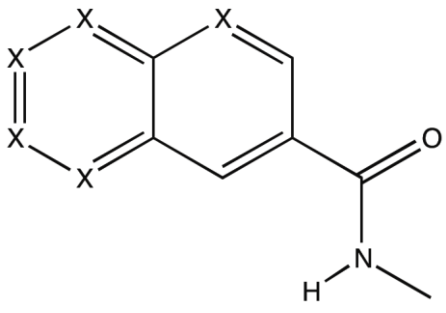


Figure S6. Histogram of the frequency of N···C(quinoline) (in red) and O···C(quinoline) (in orange) bond separations when the fragment shown in Scheme S2 is surveyed in the CSD database.



Scheme S2. In order to get more results in the survey, we have not restricted the search only for 6-quinoline-derivatives, and **X** can be either C or N.