

SUPPORTING INFORMATION

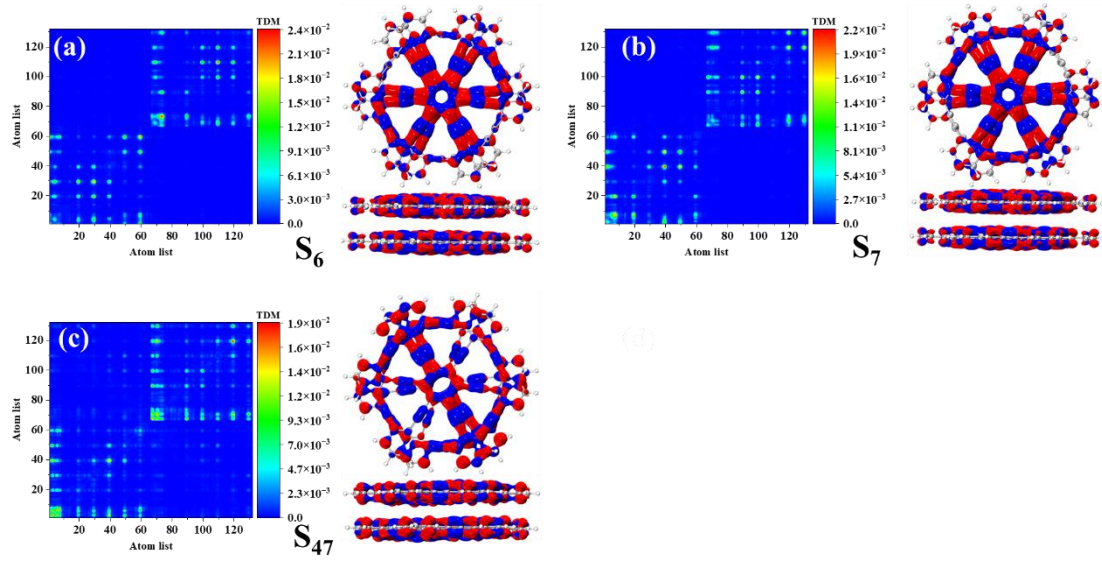


Figure S1. (a) The top view and front view of the TDM and CDD plots of bilayer graphyne in S_6 ; (b) The top view and front view of the TDM and CDD plots of bilayer graphyne in S_7 ; (c) The top view and front view of the TDM and CDD plots of bilayer graphyne in S_{47} .

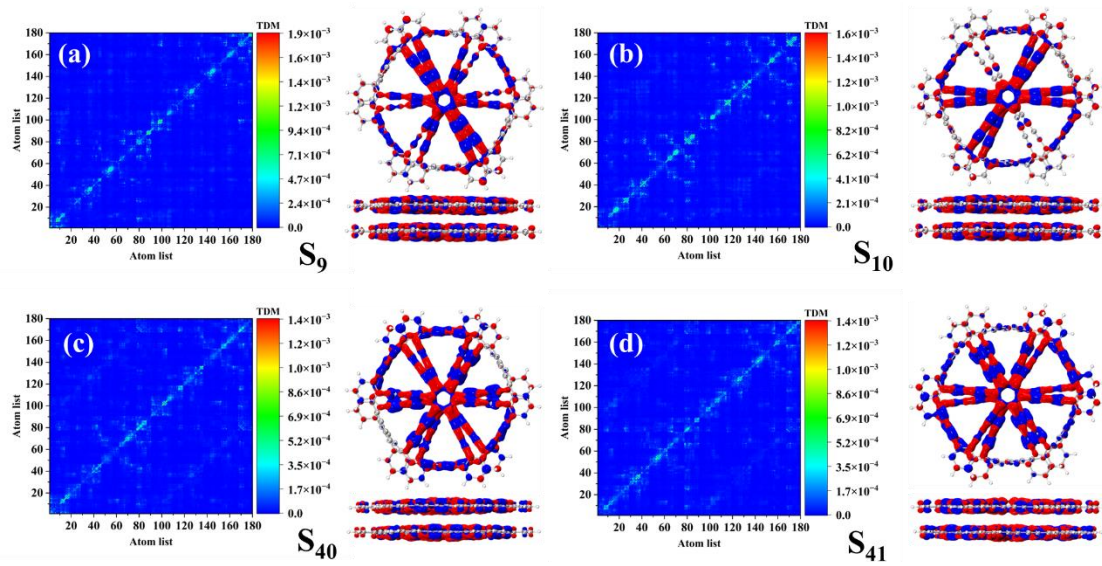


Figure S2. (a) The top view and front view of the TDM and CDD plots of bilayer graphdiyne in S_9 ; (b) The top view and front view of the TDM and CDD plots of bilayer graphdiyne in S_{10} ; (c) The top view and front view of the TDM and CDD plots of bilayer graphdiyne in S_{40} ; (d) The top view and front view of the TDM and CDD plots of bilayer graphdiyne in S_{41} .

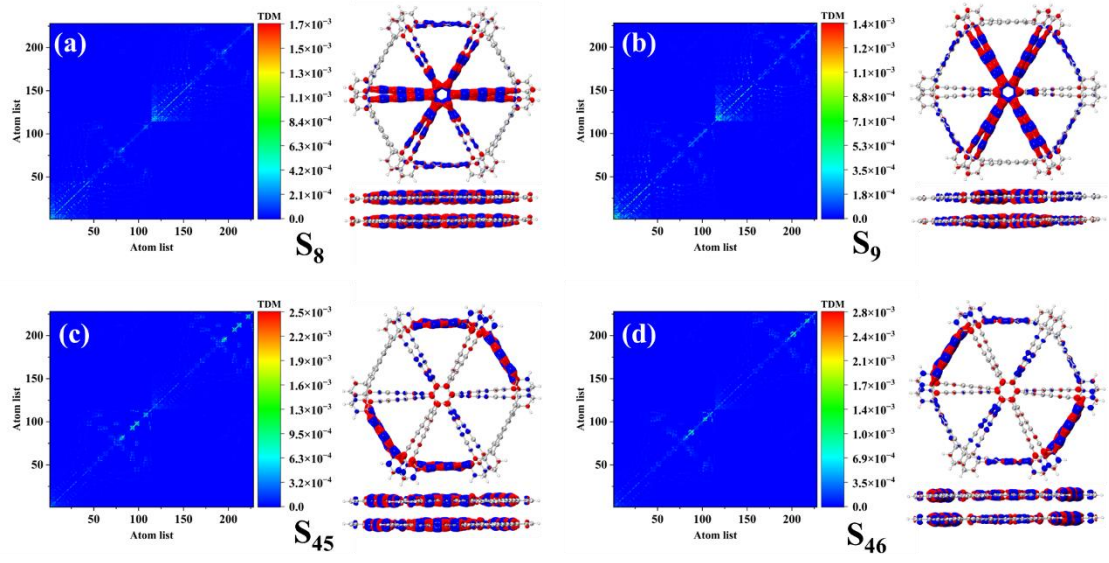


Figure S3. (a) The top view and front view of the TDM and CDD plots of bilayer graphtriyne in S_8 ; (b) The top view and front view of the TDM and CDD plots of bilayer graphtriyne in S_9 ; (c) The top view and front view of the TDM and CDD plots of bilayer graphtriyne in S_{45} ; (d) The top view and front view of the TDM and CDD plots of bilayer graphtriyne in S_{46} .