

Supplementary Materials:

Multi stimuli responsive materials supported by orthogonal hydrogen and halogen bonding or I $\cdots$ alkene interaction

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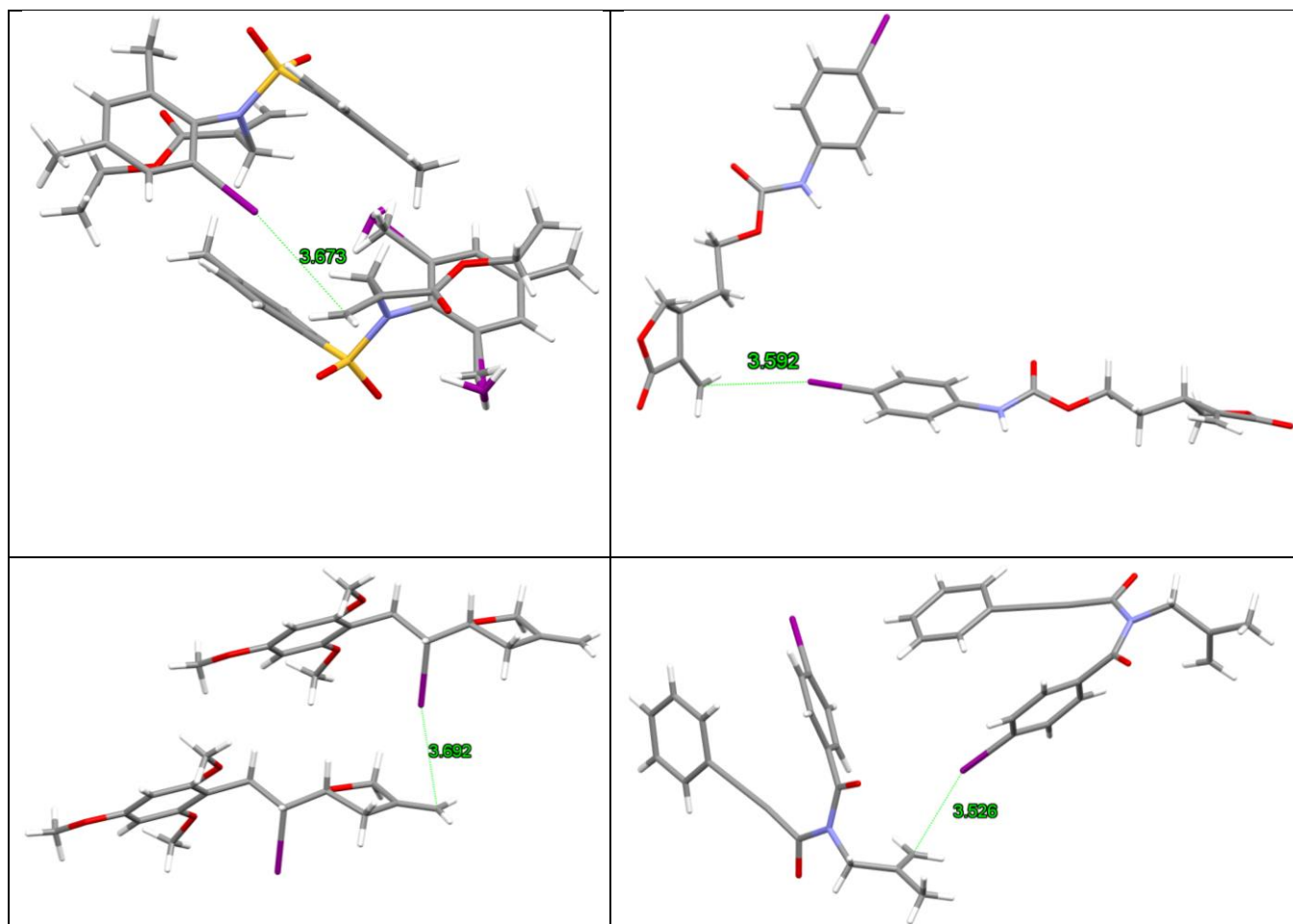


Figure S1. X ray structures of HOQKAC (top left), HOTZOH (top right), PEQVOZ (bottom left) and USAJIK (bottom right) showing the I $\cdots$ CH₂=C halogen bonds found in the Cambridge Structural Data base (CSD version 5.42 updates, Sep 2021). Colors are as follows: grey, C; blue, N; red, oxygen; white, H; orange, S; purple, I.

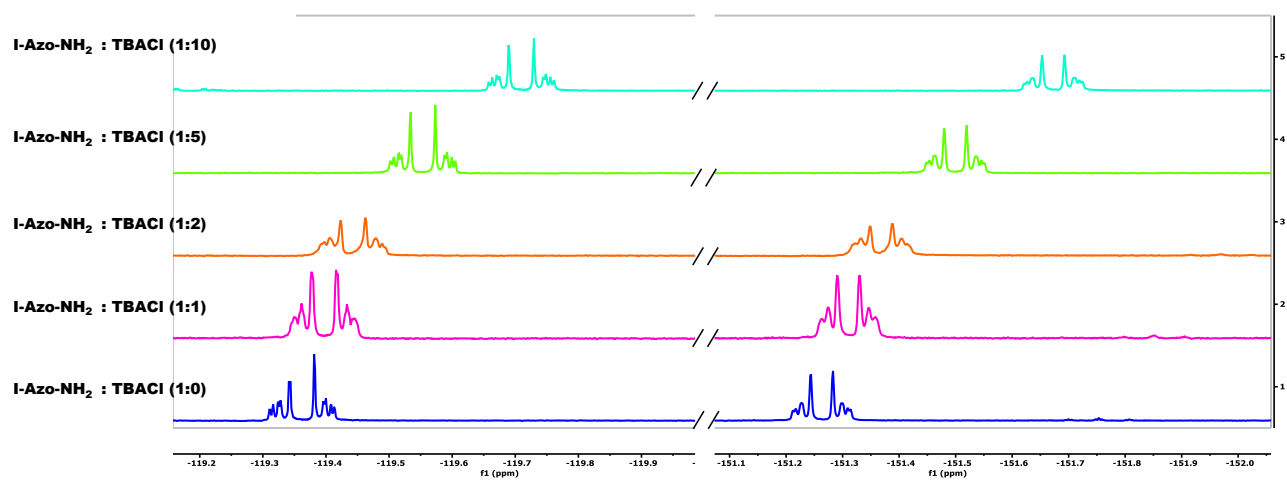


Figure S2. Stack plot of ^{19}F NMR spectra of **I-azo-NH₂** (CDCl_3), at different molar ratios of **I-azo-NH₂**/TBACl. Molar ratios: a) 1:0; b) 1:1; c) 1:2; d) 1:5; e) 1:10.