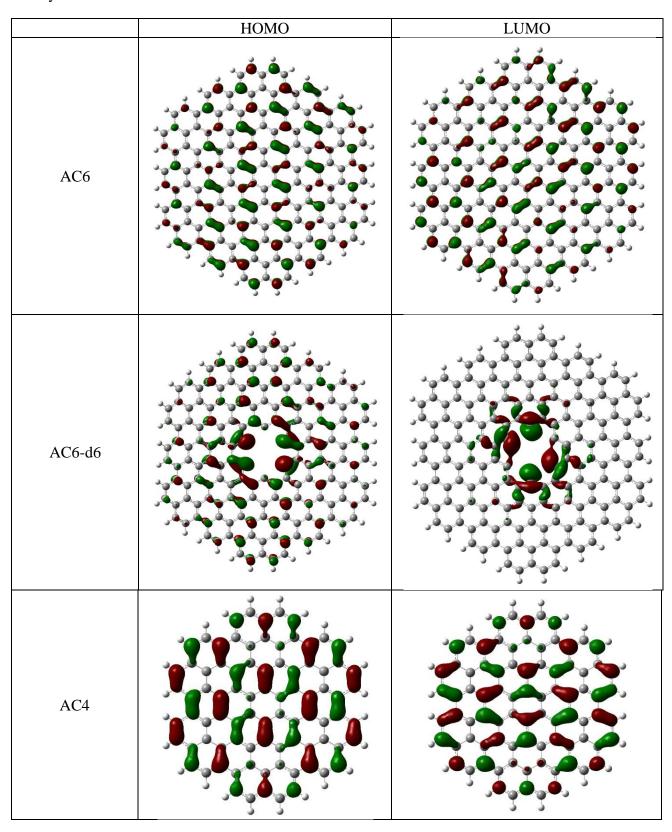
Supplementary Materials

Calculated HOMO and LUMO for original HGNS (AC6 and AC4), defect HGNS (AC4-d6 and AC6-d6), and epoxy-HGNS for core and edge (AC4-expoxy core and edge) which indicated the electron density HGNS.



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