Theoretical Strategy To Design Novel n-Type Copolymers Based on Anthracene Diimide and Pyrido[2,3-g]quinoline Diimide for Organic Solar Cells

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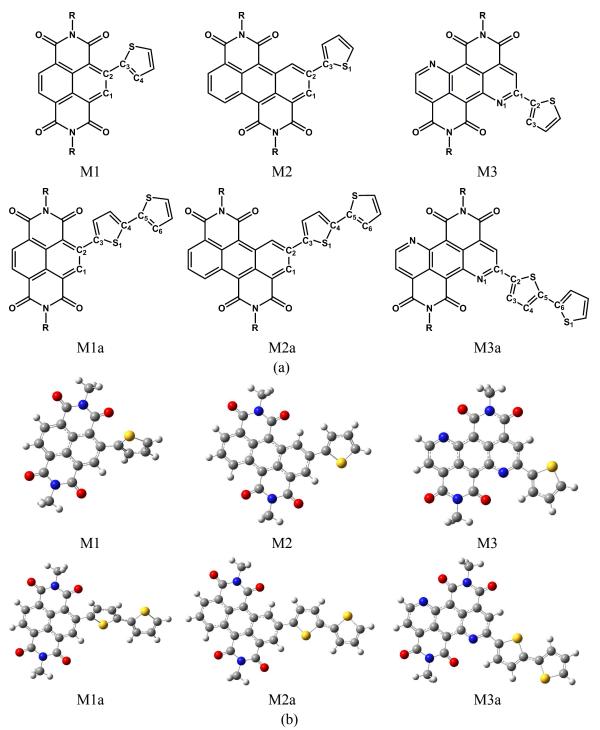
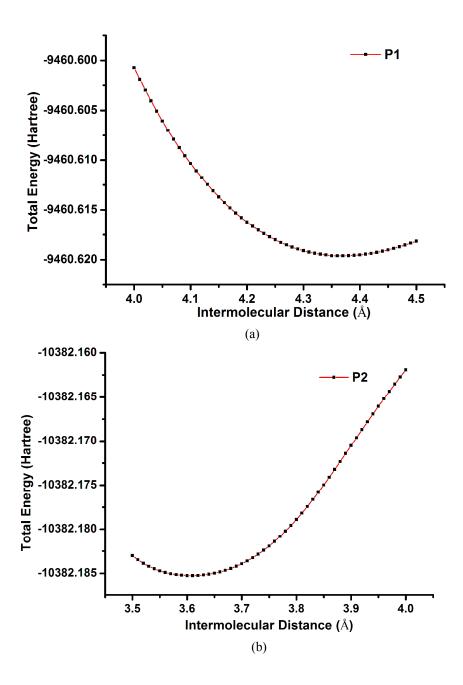
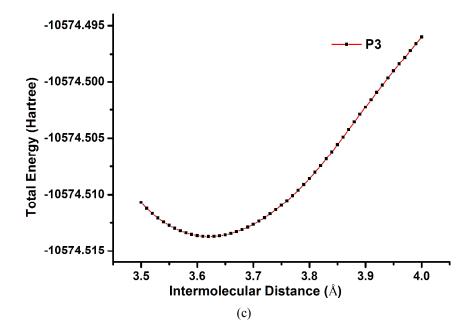
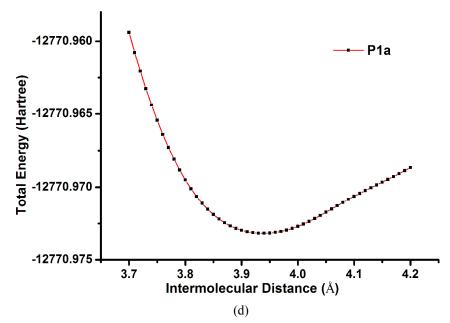


Figure S1. (a) Sketch structures ($R = CH_3$) and names of monomer models (M1-M3, M1a-M3a) and (b) 3D models of M1-M3, M1a-M3a.







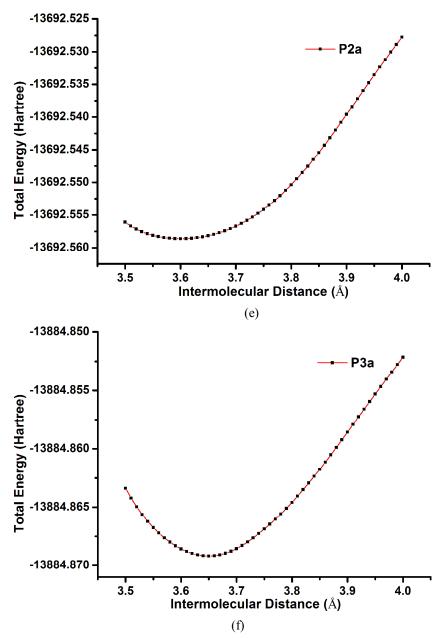


Figure S2. The calculated total energies of two adjacent trimers (P1 (a), P2 (b), P3 (c), P1a (d), P2a (e) and P3a (f)) as the function of intermolecular distance (scanning step length is 0.01 Å)

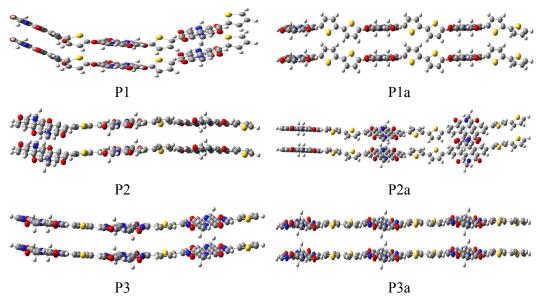


Figure S3. 3D models of two adjacent fragments of those copolymers