

Computational Design and Selection of Optimal building blocks and linking topologies for construction of high-performance host materials

Ming-Kuan Yan, Ye Tao, Run-Feng Chen, Chao Zheng, Zhong-Fu An, Wei Huang**

Key Laboratory for Organic Electronics & Information Displays (KLOEID), Institute
of Advanced Materials (IAM), Nanjing University of Posts & Telecommunications
(NUPT), Nanjing 210046 (China)

*Corresponding author. Tel: +86 25 8586 6008; Fax: +86 25 8586 6999; E-mail:
wei-huang@njupt.edu.cn or iamrfchen@njupt.edu.cn.

Supporting Information

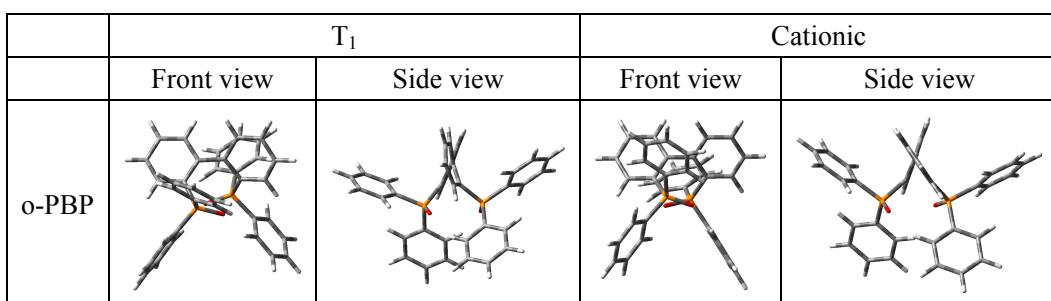


Fig. S1. Optimized geometries of *o*-PBP in the lowest triplet (T₁) and cationic states using B3LYP/6-31G(d). They are found tortile probably due to the strong interaction of the two oxygen atoms in diphenyl phosphine oxide. The optimized geometry of *o*-PBP in T₁ state using HF/6-31G(d) seems the most reasonable after further trials using other DFT and ab initio methods (e.g. BLYP, BP86, B3P86, BPW91, B3PW91, X3LYP, HF and MP2).