Supplementary Information

Theoretical study of asymmetric electron transport through linearly aromatic molecules

Hongmei Liu,[1] Yuanyuan He,[2] Jinjiang Zhang,[2] Jianwei Zhao,[2*] Li Chen[1]

[1]Institute of Condensed Matter Physics, Linyi University, Shuangling Road, Linyi 276000, P. R. China

[2]State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210008, P. R. China

[*] To whom correspondence should be addressed. E-mail: zhaojw@nju.edu.cn
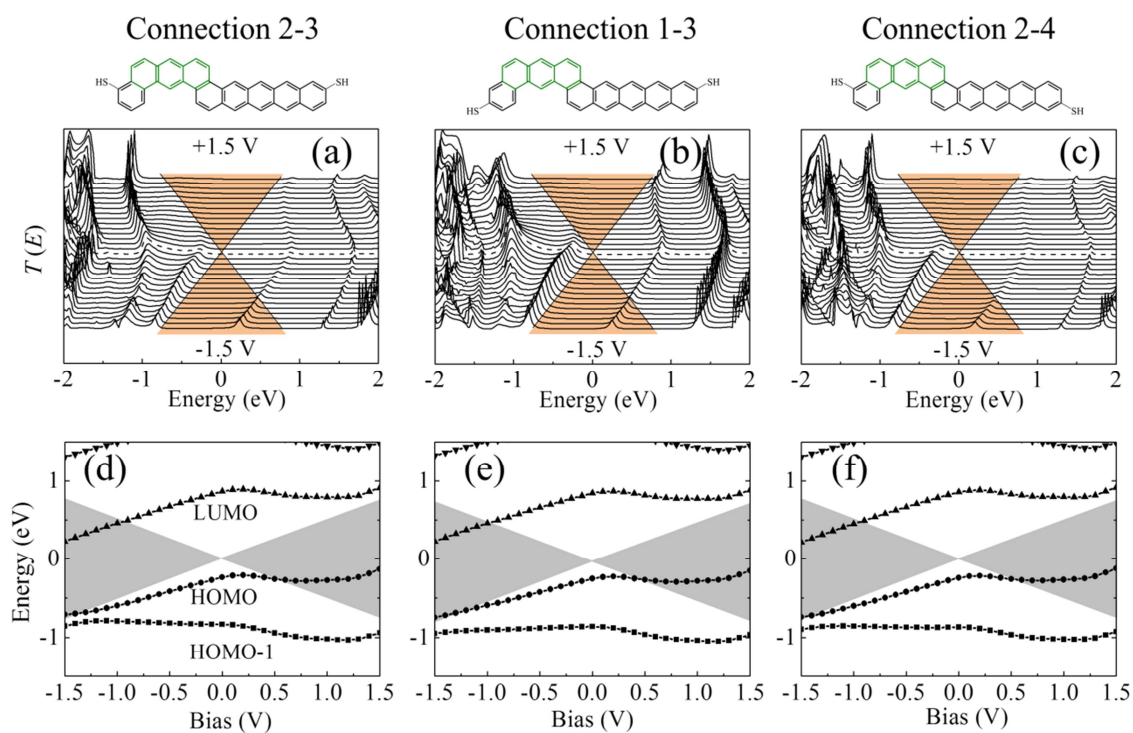
Figure S1. Transmission spectra of (a) connection 2-3, (b) 1-3, and (c) 2-4 under various biases (each curve is vertically shifted 0.1 for clarity). The shadow regions indicate the bias window and the dashed lines represent equilibrium transmission (V_b=0 V). The bias-dependent molecular orbital energy levels of (d) connection 2-3, (e) 1-3, and (f) 2-4. The shadow regions correspond to the bias windows.