Supporting Information

Selenophene-DPP Donor-Acceptor Conjugated Polymer for High Performance Ambipolar Field Effect Transistor and Nonvolatile Memory Applications

Hsiang-Wei Lin,[1] Wen-Ya Lee,[2] Wen-Chang Chen[1,2*]

[1] Institute of Polymer Science and Engineering, National Taiwan University, Taipei 106, Taiwan,

[2] Department of Chemical Engineering, National Taiwan University, Taipei 106, Taiwan,

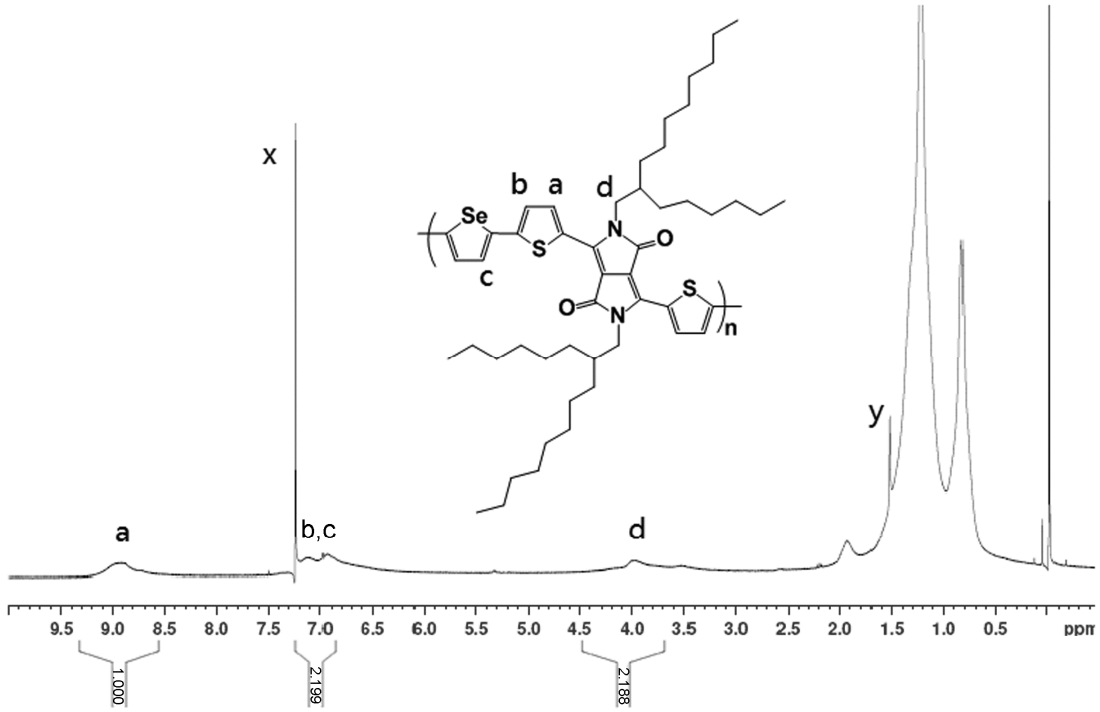

Figure S1. ^{1}H-NMR Spectrum of **PSeDPP** in $CDCl_3$.(x: $CDCl_3$, y: H_2O)

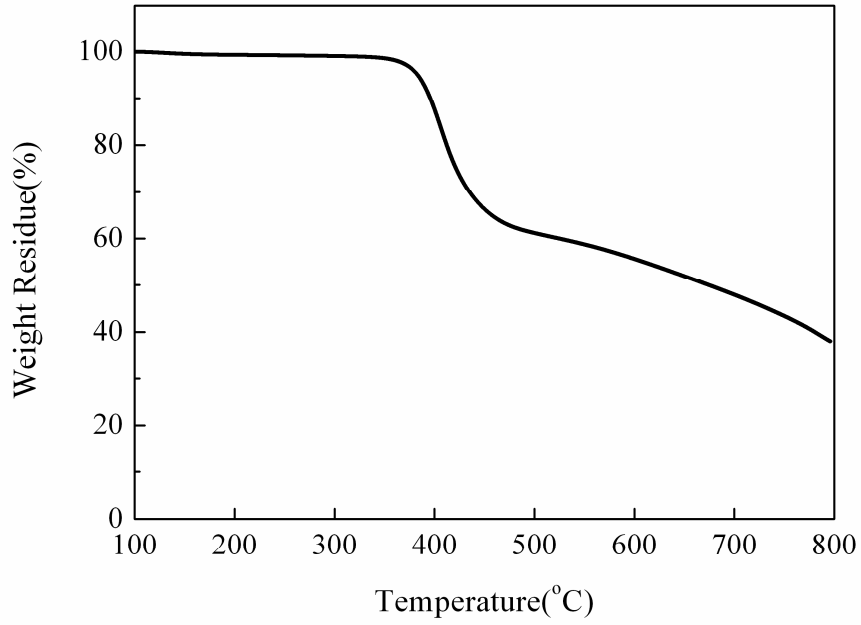

Figure S2. TGA curve of the **PSeDPP** with a scanning rate of 10 °C/min under a nitrogen atmosphere.

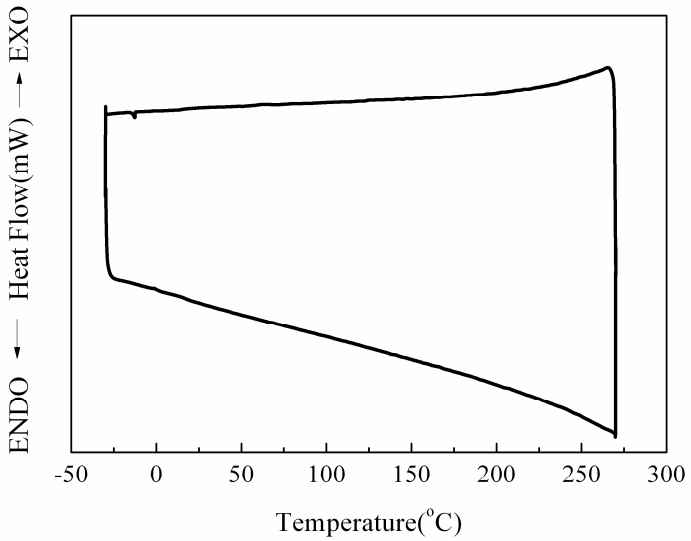

Figure S3. DSC curve of the **PSeDPP** with a scanning rate of 5 °C/min under a nitrogen atmosphere.

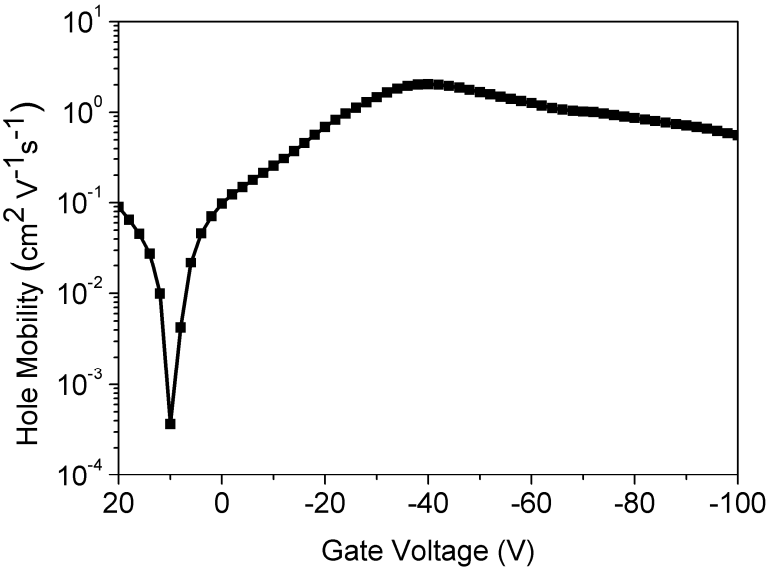

Figure S4. Gate voltage dependence of hole mobilities of the PSeDPP FET prepared from TCB.

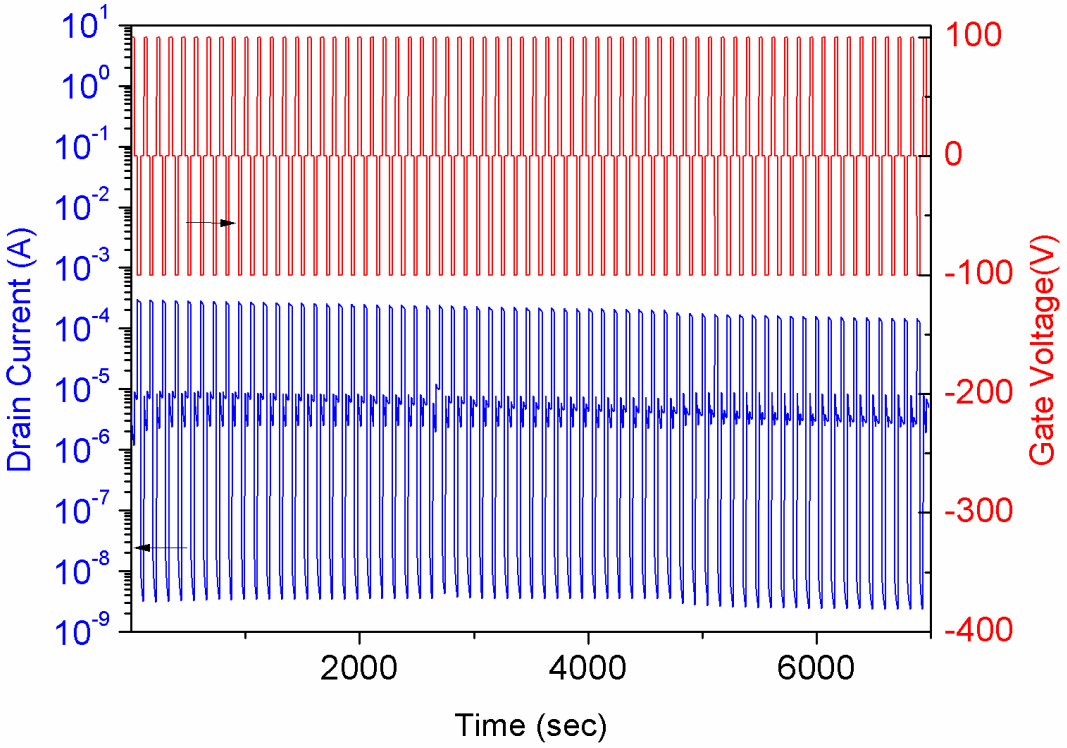

Figure S5. Reversible current responses to WRER cycles. (writing: V_g = 100 V and V_d = 0 V; reading: V_g = 0 V and V_d = -60 V; erasing: V_g = -100 V, V_d = 0 V).