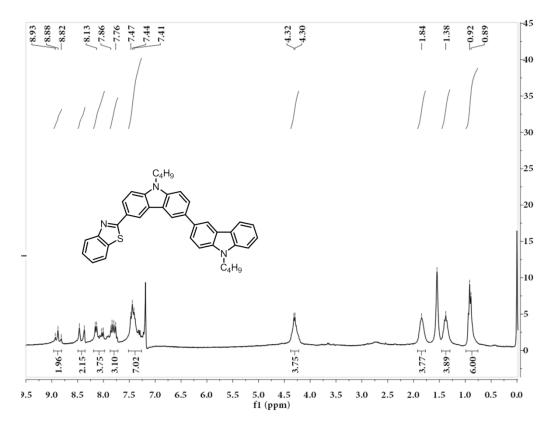
Electronic Supplementary Information Electronic Effect of Terminal Acceptor Groups on Organic Donor-Acceptor Small-Molecule Induced Different Memory Models

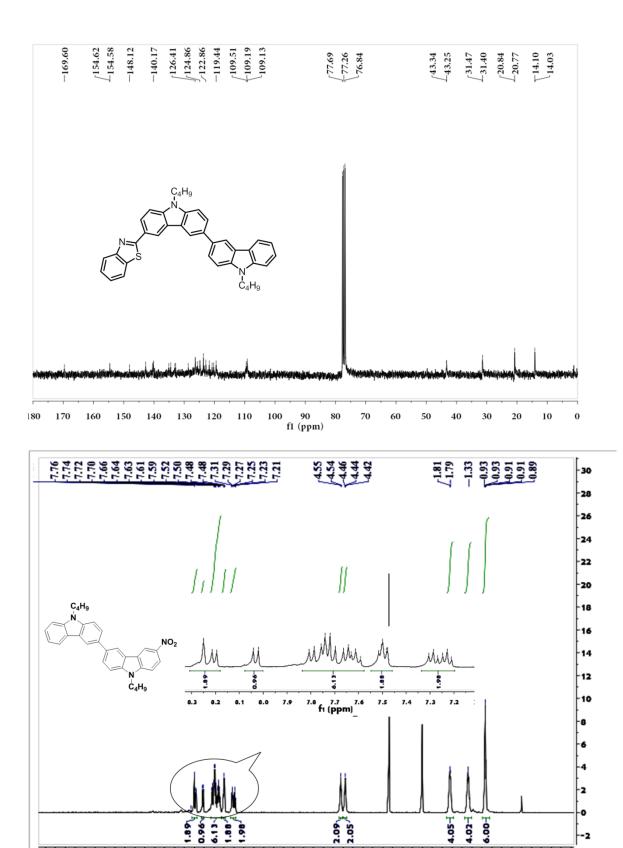
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and Chemical Industry, Suzhou 215123, P. R. China.

1. NMR Spectra.





12.0

10.5

8.0

9.0

7.0

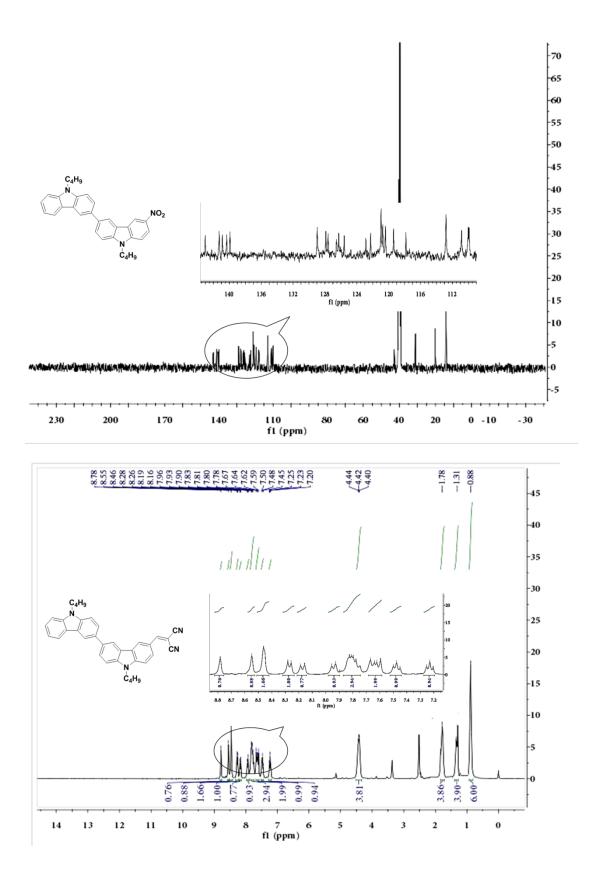
6,0 5.0 f1 (ppm) 3.0

4.0

2.0

1.0

0.0



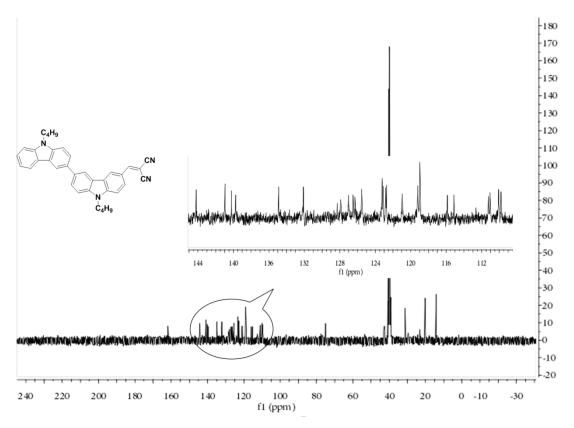
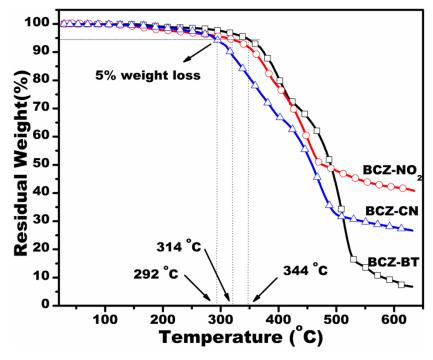


Figure S1¹H and ¹³C NMR spectra of BCz-BT, BCz-NO₂ and BCz-CN



2. Thermo gravimetric analysis (TGA).

Figure S2 Thermo gravimetric analysis (TGA) curves of three compounds with a heating rate of 20 C min⁻¹ under nitrogen atmosphere.

3. I/t Curves.

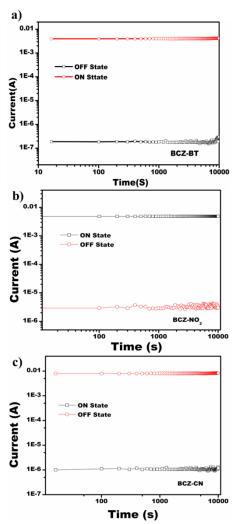


Figure S3 Effect of retention time at 1.0 V on OFF and ON states of **BCz-BT**, **BCz-NO₂** and **BCZ-CN** under a constant stress of 1.0 V.

4. I/V Curves of ITO/BCz/Al.

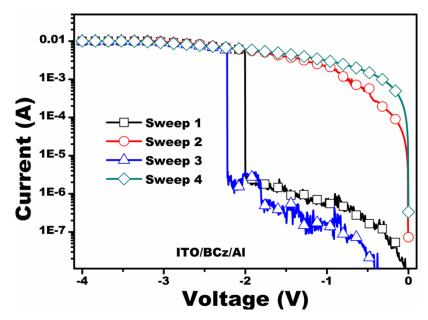


Figure S4 The memory performance of the ITO/BCz/Al device

5. Current models.

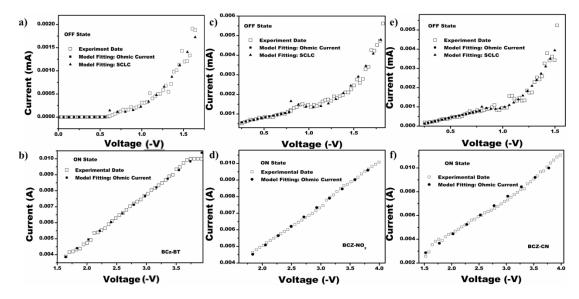


Figure S5 OFF and ON states I-V curves of the experimental and fitted data for the memory devices based on **BCz-BT**, **BCz-NO**₂ and **BCZ-CN** of: (**a**, **b**, **c**) The OFF state with the Ohmic current and SCLC model; (**b**, **d**, **f**) The ON state with the ohmic current model.