

# Supporting Information

## Fullerene-Based 0D Ferroelectrics/Multiferroics for Ultrahigh-Density and Ultrafast Nonvolatile Memories

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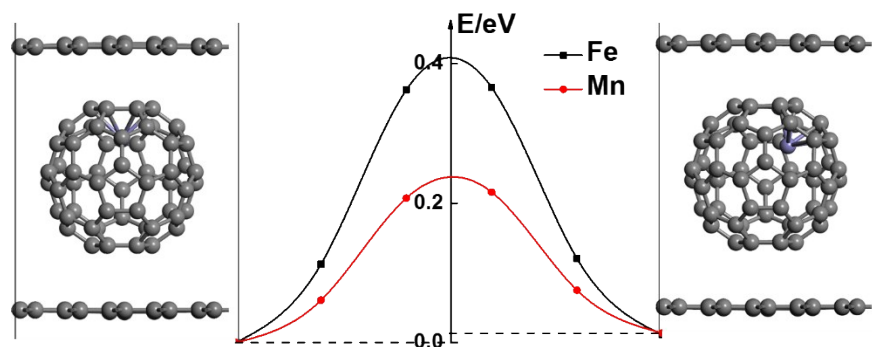


Figure S1. The energy profiles of M diffusion pathway for  $M@C_{60}$  intercalated between two graphene layers.

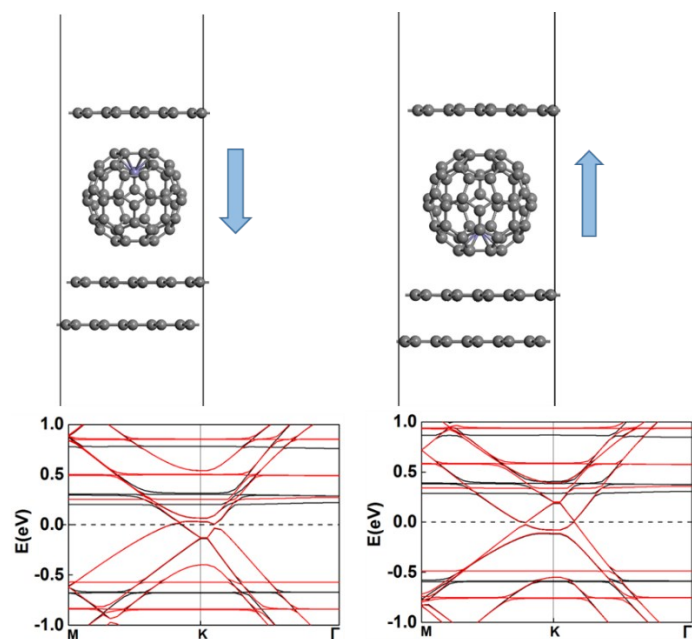


Figure S2. Device design based on  $Fe@C_{60}$  intercalated between two graphene layers.

Table S1. Fitted parameters  $A_0$ - $A_8$  in Eq.(1).

|       |  |
|-------|--|
| $A_0$ | <b><math>-6.48075465 \times 10^{-4}</math></b> |
| $A_1$ | <b><math>-1.22701926 \times 10^1</math></b>    |
| $A_2$ | <b><math>-3.68193810 \times 10^2</math></b>    |
| $A_3$ | <b><math>1.25854840 \times 10^5</math></b>     |
| $A_4$ | <b><math>-6.52326964 \times 10^6</math></b>    |
| $A_5$ | <b><math>1.50232429 \times 10^8</math></b>     |
| $A_6$ | <b><math>-1.77316562 \times 10^9</math></b>    |
| $A_7$ | <b><math>1.04990417 \times 10^{10}</math></b>  |
| $A_8$ | <b><math>-2.47745609 \times 10^{10}</math></b> |