

**Supporting Information for**  
**Transport Property of Wrinkle Graphene Nanoribbon Tuned by**  
**Spin-Polarized Gate Made of V<sub>7</sub>(Bz)<sub>8</sub> Nanowire**

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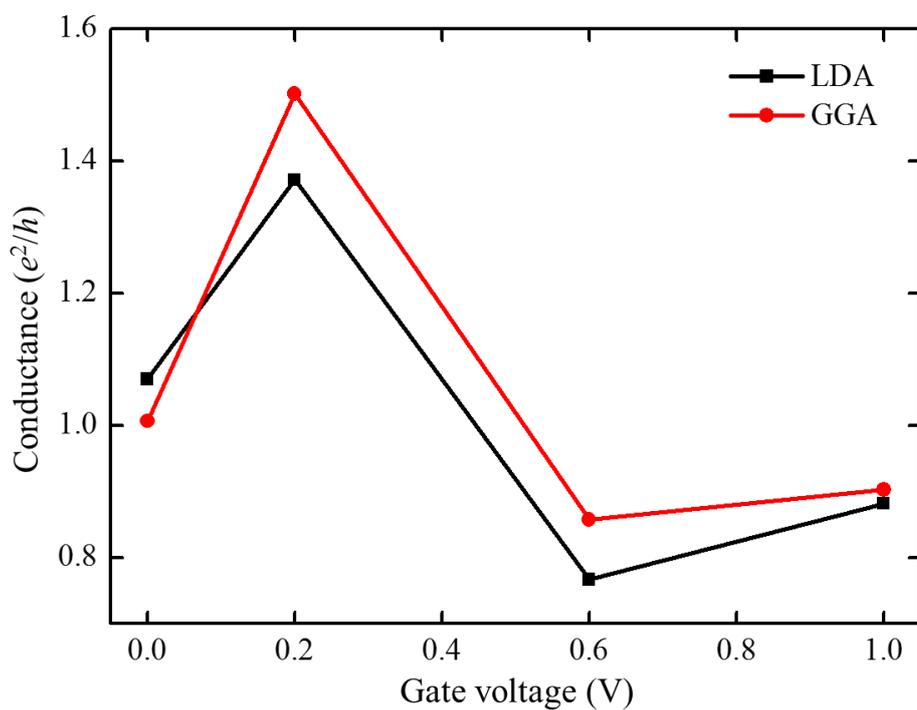


Figure S1 Comparison of LDA and GGA calculated conductance of S-D channel at  $V_S = 0.0$  V for the 0flat device.

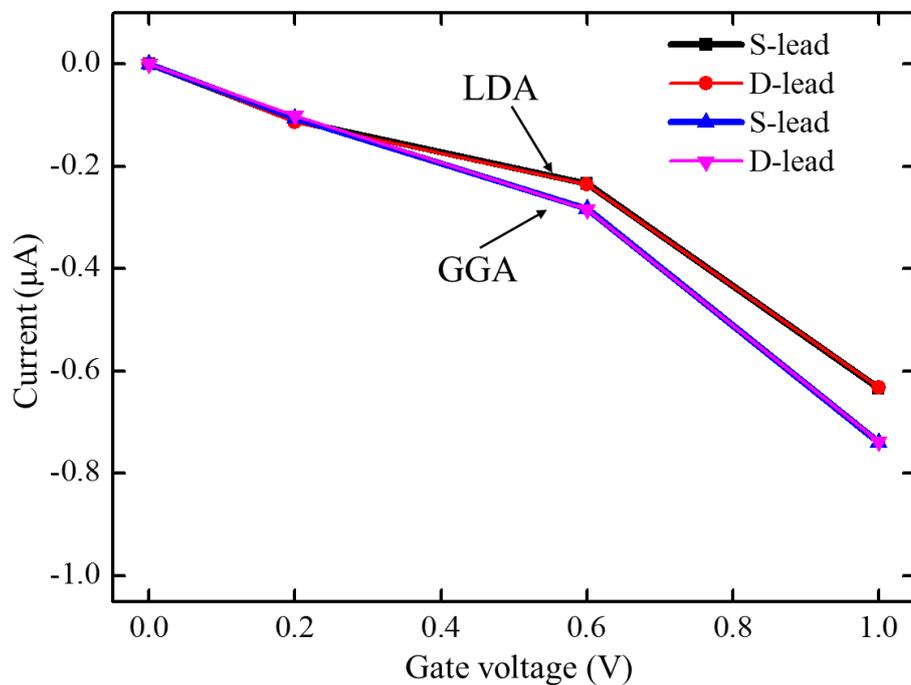


Figure S2 Comparison of LDA and GGA calculated currents of S-lead and D-lead at  $V_S = 0.0$  V in the 0flat device.

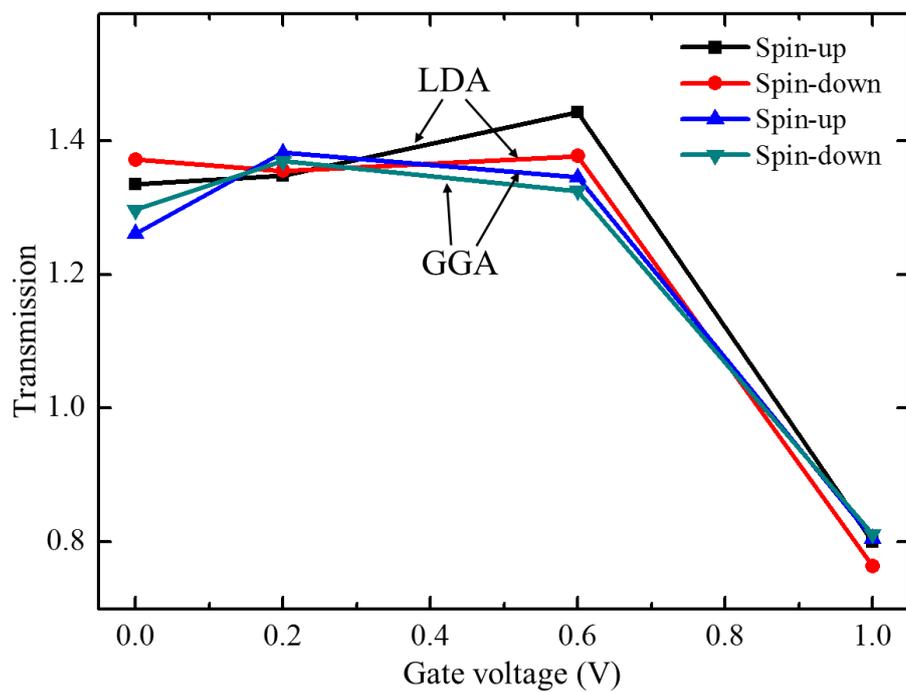


Figure S3 Comparison of LDA and GGA calculated transmission coefficient of S-D channel at  $V_S = 0.0$  V in the 0flat device.