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Length-independent multifunctional device based on tetra-penta-octagonal graphene nanoribbons: A first-principles study

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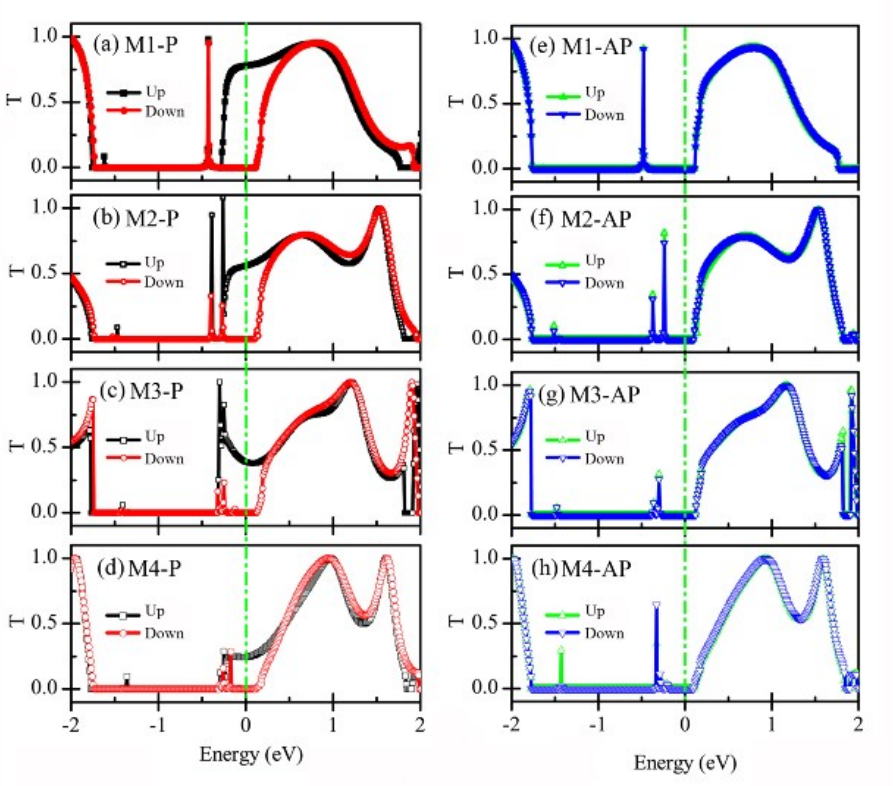

Fig. S1 The spin resolved zero bias transmission spectra of M1-M4 in P (a-d) and AP (e-h) spin configurations

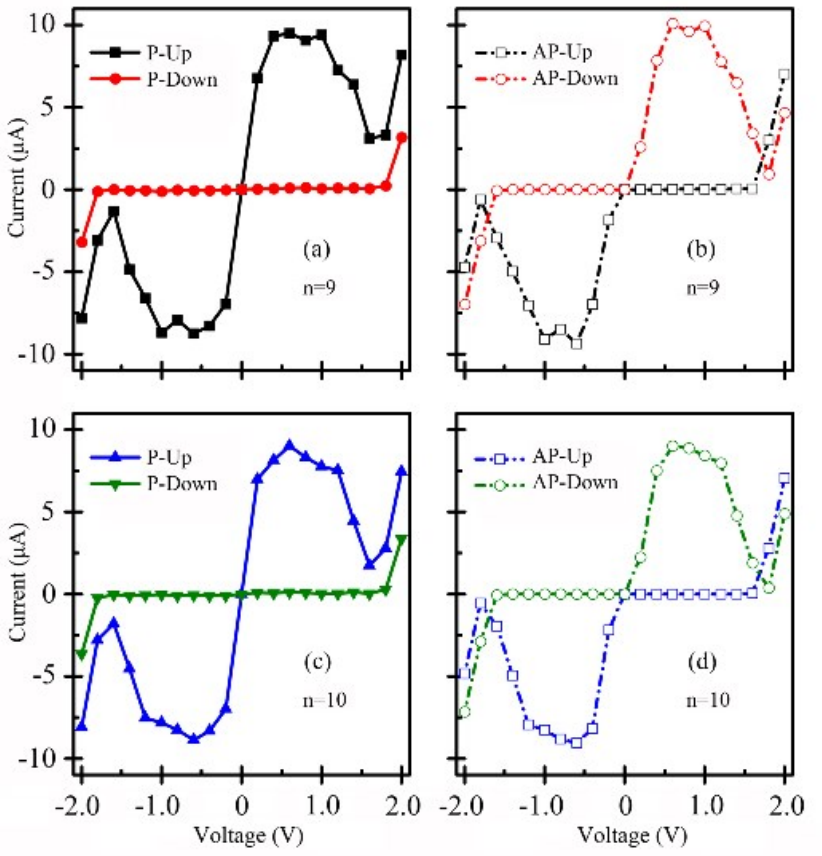

Fig. S2 The calculated spin resolved currents as a function of the applied bias for model devices with the width of TPO-graphene ribbon of n=9 and n=10 within the bias ranges of (-2.0, 2.0 V) in P (a,b) and AP (c,d) spin configurations.