Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Supporting Information

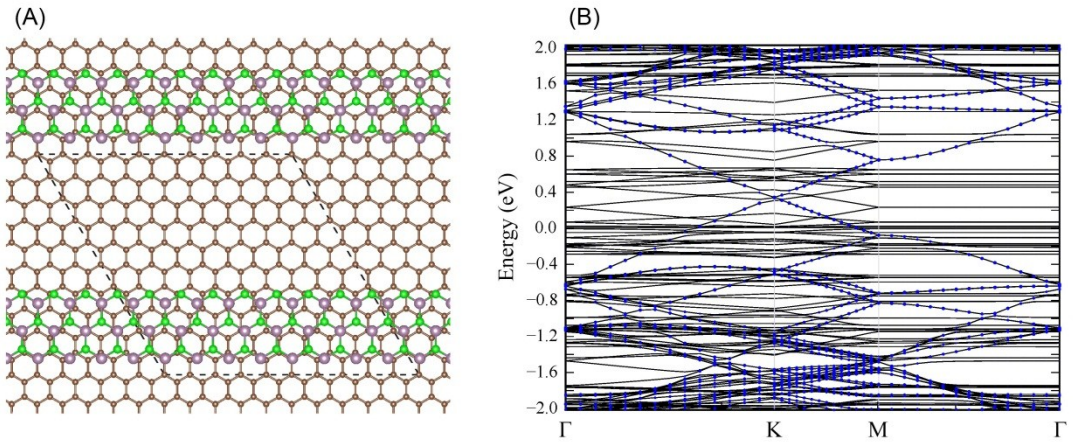

Figure 1. (A) Top view of MoS_2 ribbon/Gra at the same inter-layer distance to that of MoS_2 monolayer/Gra; (B) Band structure of ribbon/Gra. It is clear that the overall shape is similar to the ribbon/Gra with optimized distance (Fig. 2 in the manuscript). Thus it is safe to conclude that the resulted different electronic properties of MoS_2 structures on graphene is totally due to the influence of edges.