

Theoretical investigation of width effect in electronic and transport properties of carbon nanoribbons with 5-8-5 carbon rings: a first principle study

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Supporting Information (SI)

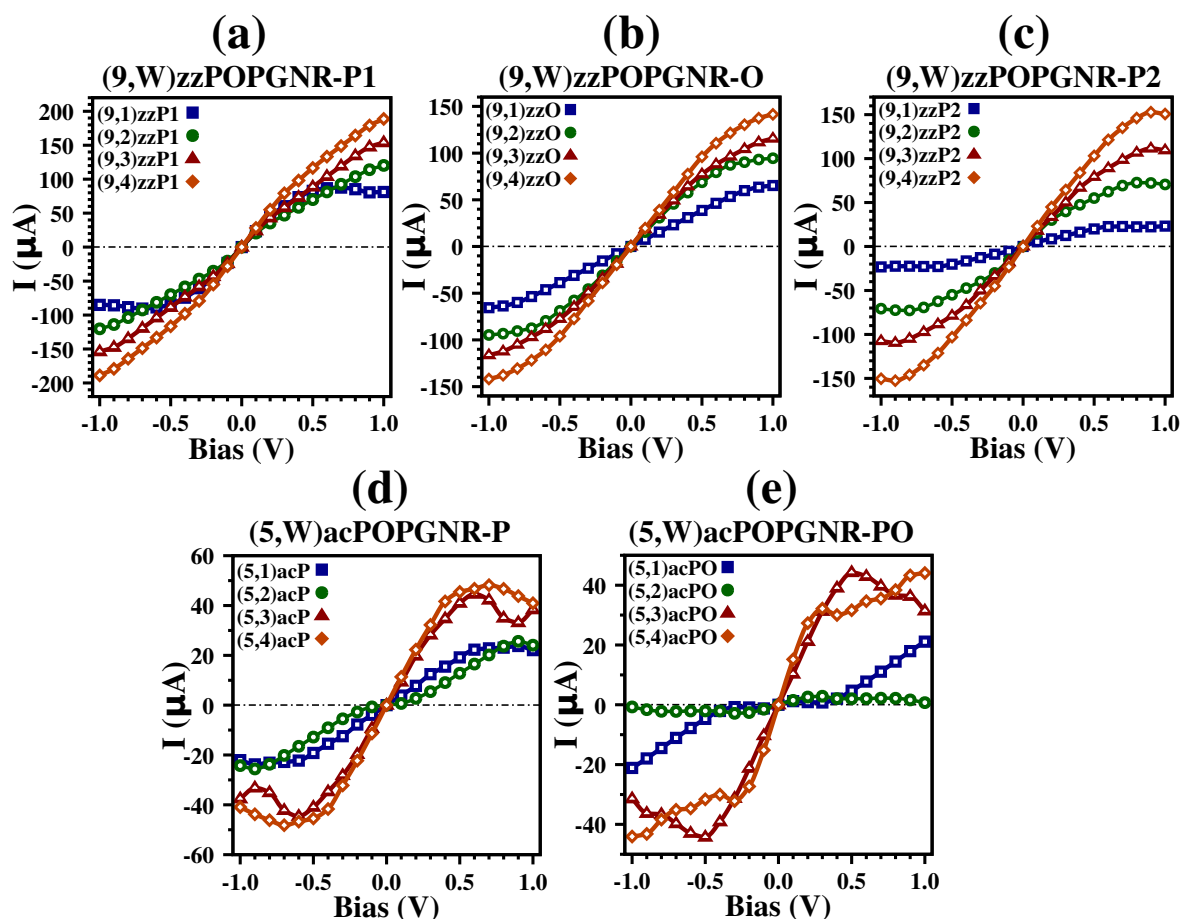


Fig. S1. Comparative of I - V curve for all molecular devices: (a) $(9,w)zzP1$, (b) $(9,w)zzO$, (c) $(9,w)zzP2$, (d) $(5,w)acP$, and (e) $(5,w)acPO$. We clearly see that the I values of zz nanoribbons are higher than ac cases.

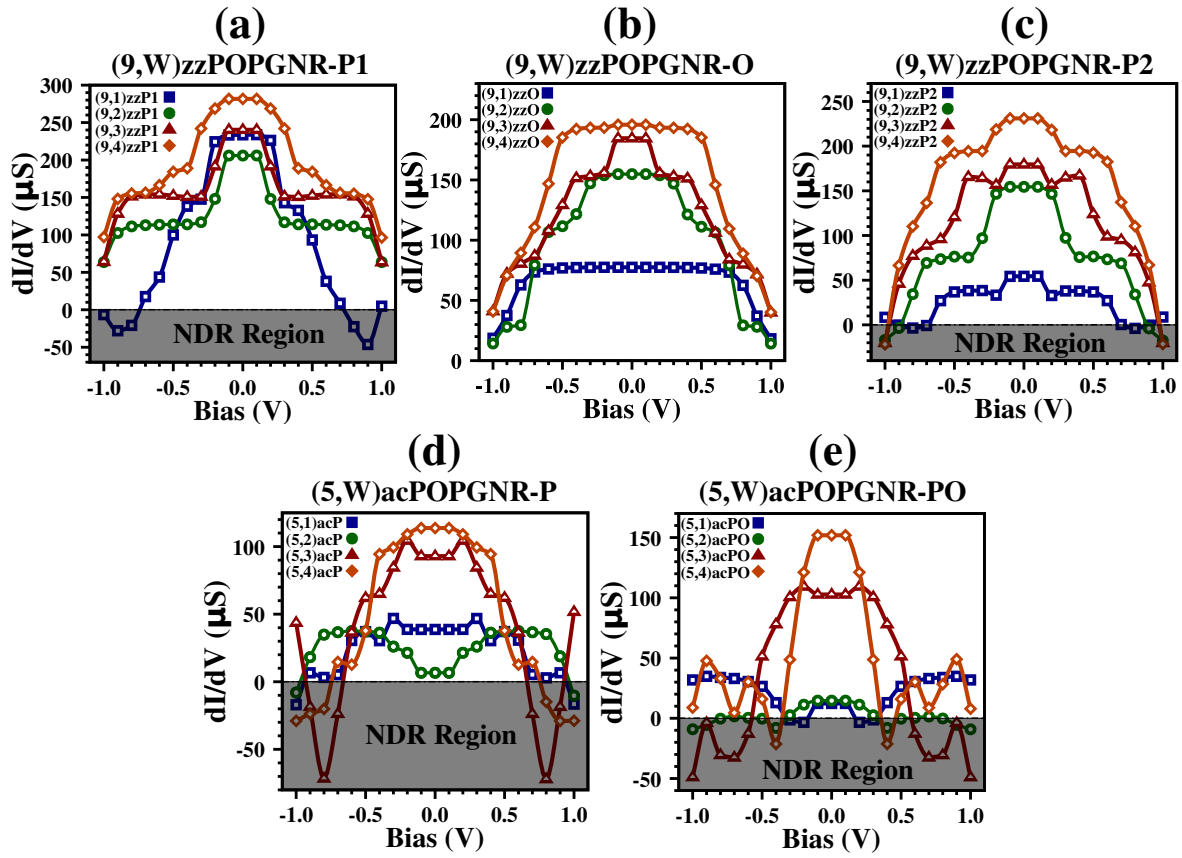


Fig. S2. Comparative of (dI/dV) - V curve for all molecular devices: (a) $(9,w)zzP1$, (b) $(9,w)zzO$, (c) $(9,w)zzP2$, (d) $(5,w)acP$, and (e) $(5,w)acPO$. We clearly see that the conductance of zz nanoribbons are higher than ac cases.