Supplementary Information

Electronic and optical properties of surface-functionalized armchair graphene nanoribbons

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![Graph showing energy difference versus energy cut-off](image1)

**Fig. S1** The energy difference versus different energy cut-off.

![Graph showing energy difference versus k-point mesh](image2)

**Fig. S2** The energy difference versus different k-point mesh.
Fig. S3 The energy difference versus different separation along y and z direction.