

SUPPLEMENTARY INFORMATION

Magnetic Single Layer Nanoribbons of Manganese Oxide: Edge and Width Dependent Electronic Properties

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I. SUPPLEMENTARY FIGURES

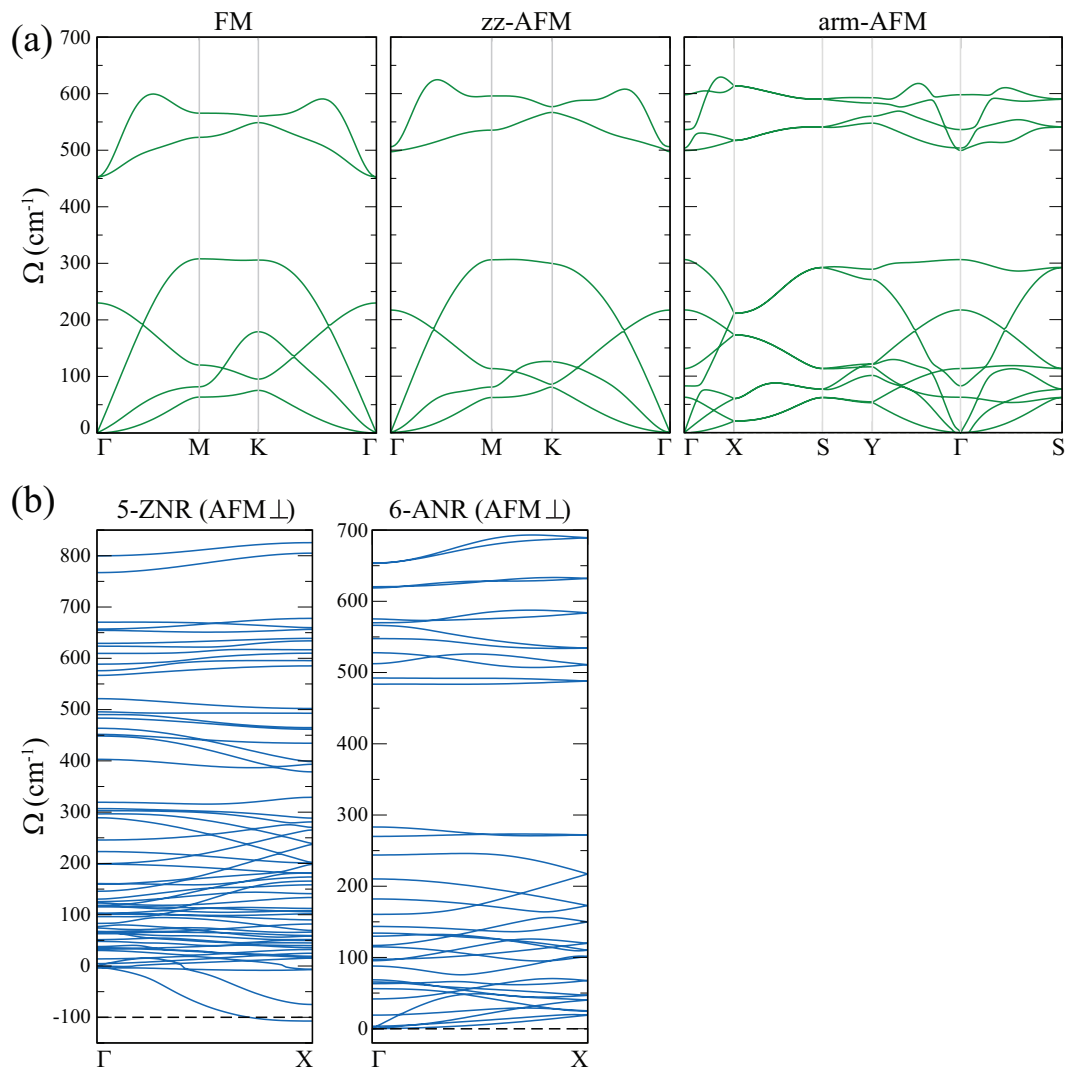


FIG. S1: (a) Calculated phonon band dispersions of FM, zz-AFM, and, arm-AFM ordered MnO single-layer structures, and (b) AFM- \perp ordered 5-ZNR and 6-ANR structures.

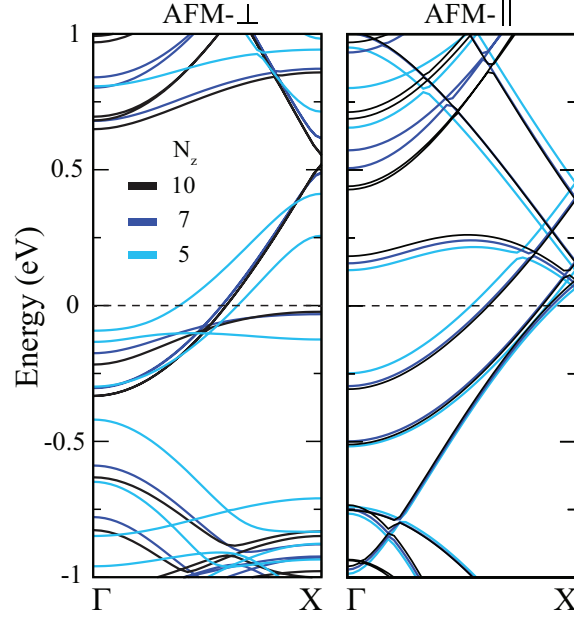


FIG. S2: Calculated electronic band structures of AFM- \perp and AFM- \parallel ordered ZNR structures.

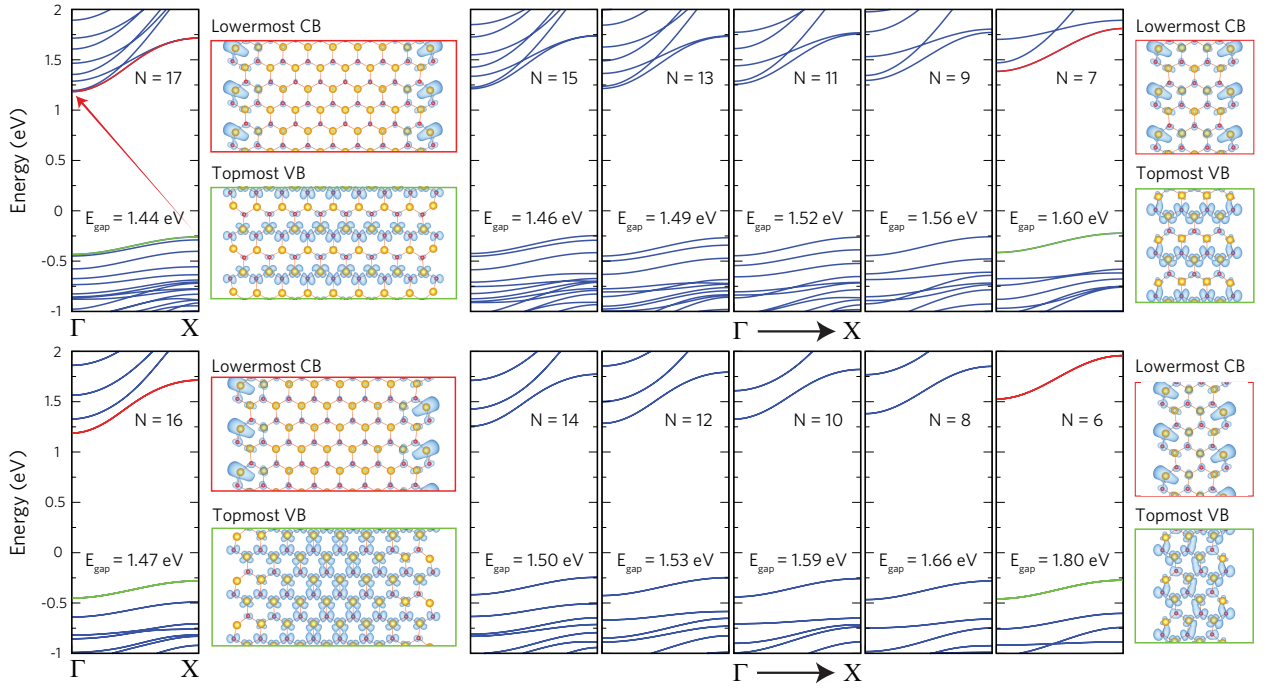


FIG. S3: The evolution of electronic band dispersions with varying ribbon width for AFM- \perp ordered ANRs. Illustrations corresponding to the lowermost CB and topmost VB orbital characteristics are given for 17- 16- 7- and 6-ANR structures.

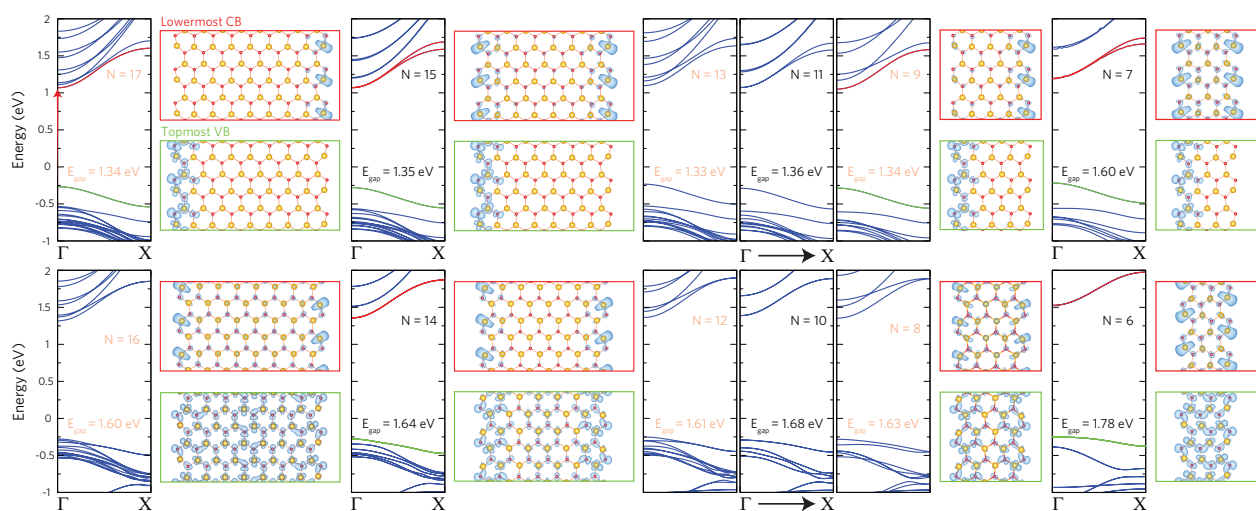


FIG. S4: The evolution of electronic band dispersions with varying ribbon width for AFM-|| ordered ANRs. Illustrations correspond to the orbital characteristics of lowermost CB and topmost VB with respect to the specific ribbon widths.

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