

SUPPLEMENTARY MATERIALS for **Defective aluminum nitride monolayer as electrode material for supercapacitor applications: a DFT study**

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Supplementary materials

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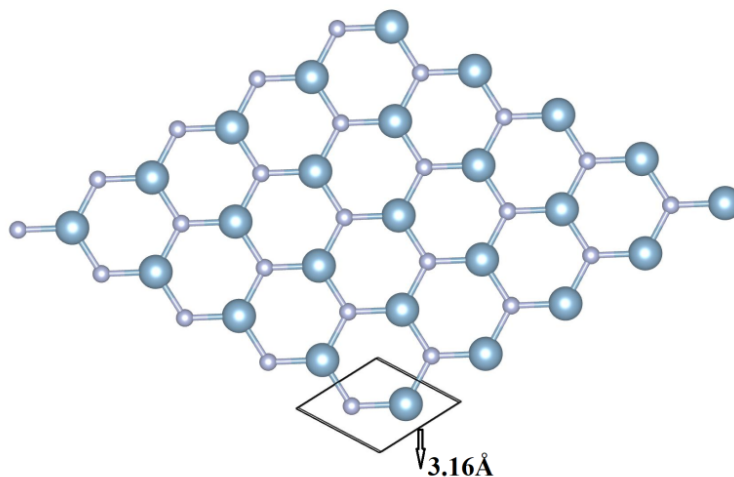


FIG. S1. Primitive unit cell with lattice parameter of 3.16 Å

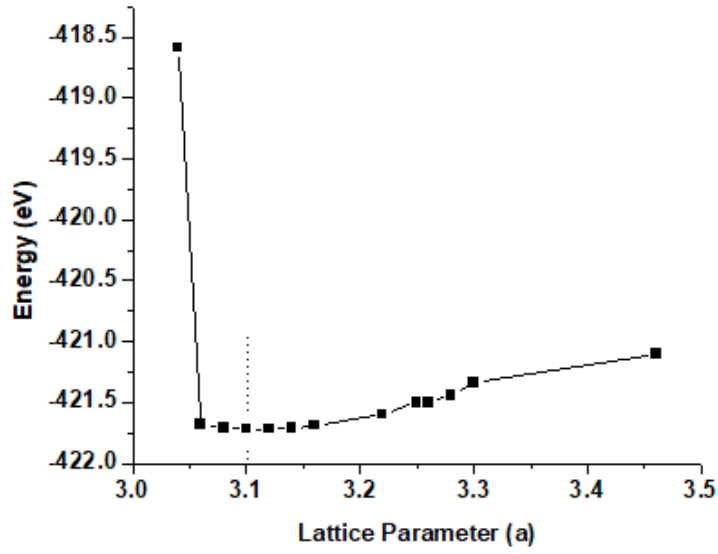


FIG. S2. The AlNNS primitive cell relaxed at different lattice parameter

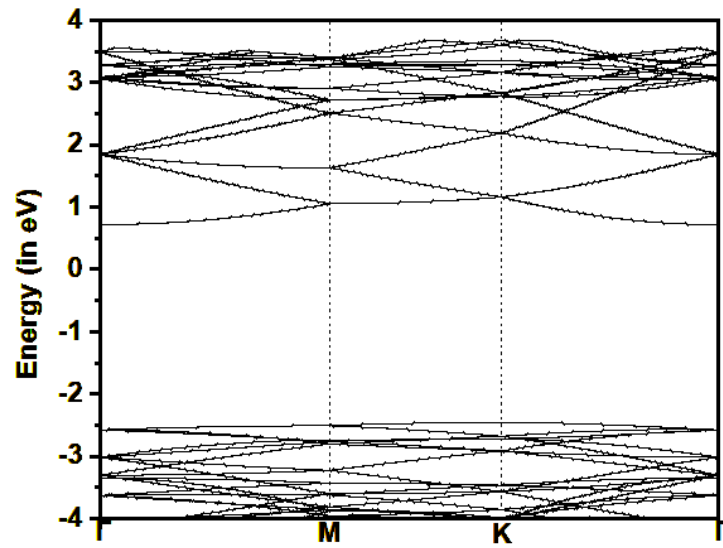


FIG. S3. Electronic bandstructure of the 5×5 AlNNS

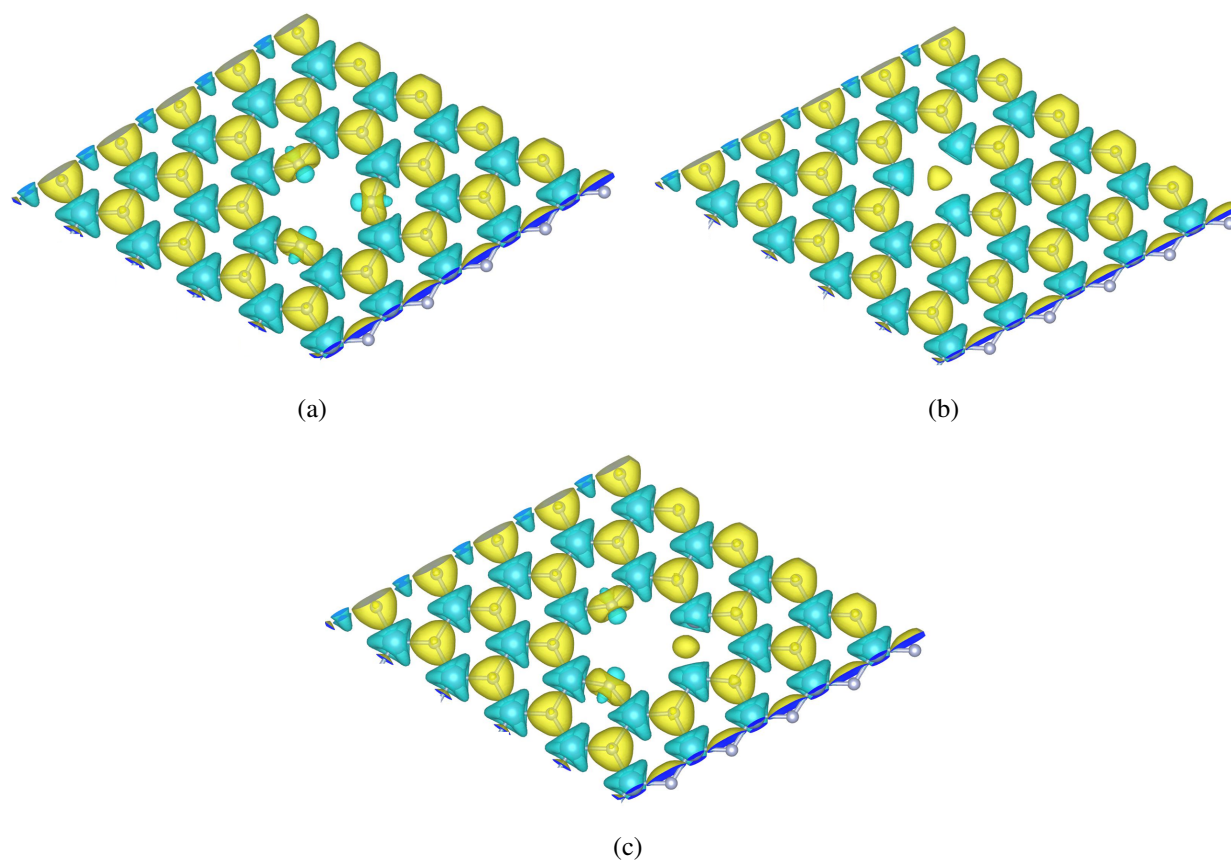


FIG. S4. Charge difference density contour plot of a) Al-deficient, b) N-deficient and c) Al-N-deficient AlNNS