All the corrections indicated by the reviewers were implemented. Some texts have been deleted and others added to include more recent results.

Density of states calculations and discussions have been added to the paper. Figure 2: Total density of states for the most stable nanoclusters $(MnO_2)_{n=2-6}$ has been added to the paper.

The caption for the table has been changed to be Figure 1: Atomic configurations and bond lengths for (MnO2)n=1-6 nanocluster as predicted by IP (before optimization) and DFT (after optimization) methods.

A reference is added the interatomic potentials structures.

Figure 3: Total energy versus temperature graph for the n5-1 nanocluster has been added to the paper. A more detailed discussion about temperature dependence has been added.

The total energy section in the table has been replaced by bond length results. The density functional theory structures have been edited to include identifiers for the atoms.

‘s’ has been added to evolutionary algorithm, ‘has’ was replaced by ‘have’ on the first sentence in paragraph 1 under Methodology. Figure 1 was deleted although it is referenced and discussed in the text.

Equation 1 and 2 have been deleted.

References were updated

‘Sol’ was added to GGA-PBE to correctly identify the code used.