High coverage water adsorption on the CuO(011) surface

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**Fig. S1** Least stable configurations of the one H$_2$O adsorption on the CuO(011) surface (Cu atoms in blue ball, O atom in red ball, O and H atoms of adsorbed water in small red ball and white ball. Adsorption energies in eV).
**Fig. S2** Least stable configurations of the two H$_2$O adsorption on the CuO(011) surface (Cu atoms in blue ball, O atom in red ball, O and H atom of water in small red ball and white ball. Adsorption energies in eV).
**Fig. S3** Least stable configurations of the three \( \text{H}_2\text{O} \) adsorption on the \( \text{CuO}(011) \) surface (Cu atoms in blue ball, O atom in red ball, O and H atom of water in small red ball and white ball. Adsorption energies in eV).

(a) -2.89 eV  
(b) -2.78 eV  
(c) -2.73 eV
Fig. S4 Least stable configurations of the four H$_2$O adsorption on the CuO(011) surface (Cu atoms in blue ball, O atom in red ball, O and H atom of water in small red ball and white ball. Adsorption energies in eV).