Supporting Information for

A Controllable Water Signal Transistor

Lili Wu,[1] Xiaoyan Zhou,[1] Hangjun Lu,[1] Qing Liang,[1] Jianlong Kou,[1] Fengmin Wu,[1]

Jintu Fan[2]

[1)] *Institute of Condensed Matter Physics, Zhejiang Province Key Laboratory of Solid State Optoelectronic Devices, Zhejiang Normal University, Jinhua 321004, China,* [2)] *Department of Fiber Science and Apparel Design, Cornell University, Ithaca, New York 14853-4401, USA*

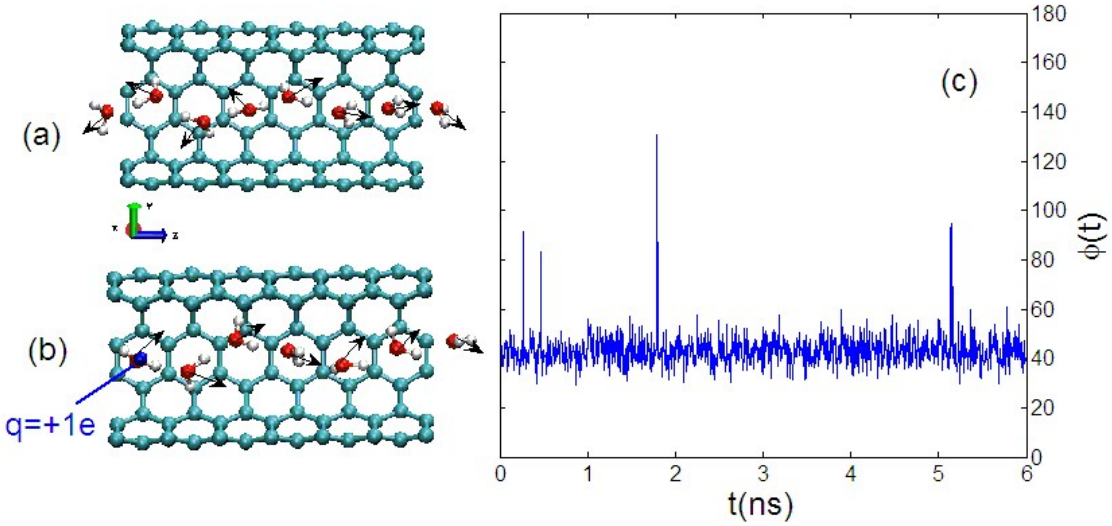

Figure S1: (a) A schematic snapshot of the system with a single channel in side view, (a) the initial state, (b) the end state with one charges, together with the trajectories (c) of average dipole angle Φ(t) of the water orientations.