Erratum: "The effect of temperature on water desalination through two-dimensional nanopores" [J. Chem. Phys. 152, 164701 (2020)]

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AFFILIATIONS

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In the originally published article,[1] the symbol τ_{hb} was not properly rendered in Figs. 5–7. The corrections to the individual figures are given below.

The label to the x-axis in Fig. 5(b) of the original article[1] should be "τ_{hb} (ps)." Including this rectification, Fig. 5 should be read as given below.
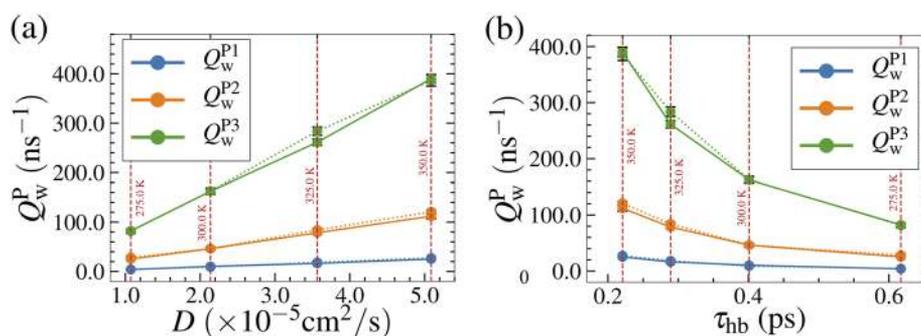

FIG. 5. The variation water flux through the nanopores (Q_w^{P1}, Q_w^{P2}, and Q_w^{P3}) against (a) the diffusion coefficient (D) and (b) the hydrogen-bond lifetime (τ_{hb}) at different temperatures. The dotted lines represent the cases where the membrane was heated. The diffusion coefficient and the hydrogen-bond lifetime were obtained from the EMD simulations. The red vertical lines are labels to indicate the temperature at each data point.

The label to the second (right) y-axis in Fig. 6 of the original article[1] should be "$\ln(\tau_{hb})$ (ps)." Furthermore, in Fig. 6, the second legend entry should be "$\ln(\tau_{hb})$." Including these rectifications, Fig. 6 should be read as given below.
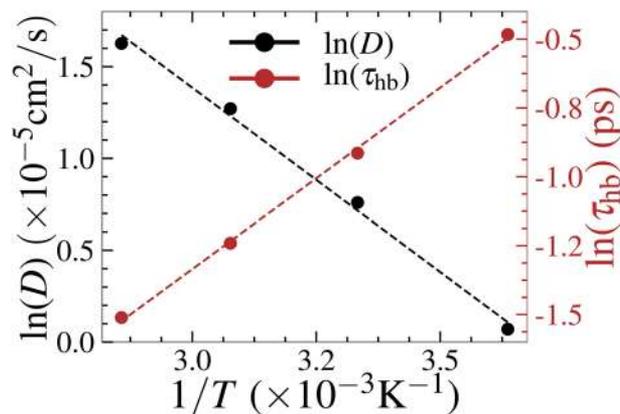

FIG. 6. Logarithmic variation of the diffusion coefficient (D) and the hydrogen-bond lifetime (τ_{hb}) against the inverse of temperature ($1/T$). The dashed lines represent the fitting curves. The diffusion coefficient and the hydrogen-bond lifetime were obtained from the EMD simulations.

The third legend entry of fitting lines in Fig. 7(a) of the original article[1] should be "From-τ_{hb}." Furthermore, in Fig. 7(b), the third legend entry for both the activation energy (E_a) and the pre-exponential factor (A) curves should be "From-τ_{hb}." Including these rectifications, Fig. 7 should be read as given below.
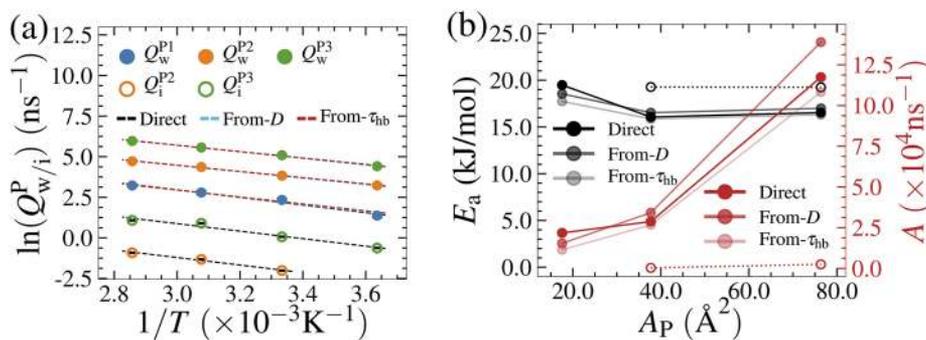

FIG. 7. (a) The logarithmic variation of water flux (Q_w) and ion flux (Q_i) through the nanopores (P1, P2, and P3) against the inverse of temperature ($1/T$). The dashed lines represent the fitting curves obtained using different methods. (b) The variation of Arrhenius activation energy (E_a) and pre-exponential factor (A) against the pore area (A_P). The color intensities represent the data obtained using different fitting methods. The dotted lines represent the data corresponding to ion permeation.

REFERENCE

[1] V. Prasad K. and S. P. Sathian, J. Chem. Phys. **152**, 164701 (2020).