Correction: Design of a robust superhydrophobic surface: thermodynamic and kinetic analysis

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The authors would like to correct some errors in eqn (27), (28) and (30)–(32).

Eqn (27) should read as follows:

\[ h_{\text{WSDD, static}} = \frac{2\gamma_{LA}}{\rho g R} + \frac{4\gamma_{LA}a \cos \theta_Y}{\rho gb(2a + b)} \]  

(27)

Eqn (28) should read as follows:

\[ h_{\text{WSDD, dynamic}} = 7.53 \times 10^{-4} \frac{c_1 v^2}{g} + 0.5 \frac{v^2}{g} + \frac{4\gamma_{LA}a \cos \theta_Y}{\rho gb(2a + b)} \left( 1 - \frac{2.57 \times 10^{-7}}{Nm^{-2}} \right) \]  

(28)

Eqn (30)–(32) should read as follows:

The quadratic term of the velocity corresponding to the Bernoulli pressure has been ignored.

\[ v_{\text{calc}} = \frac{1}{\rho c_1} \left( \frac{P_{\text{antiwetting}}}{7.53 \times 10^{-4} + P_{\text{antiwetting}} \left( \frac{2.57 \times 10^{-7}}{Nm^{-2}} \right)} \right) \]  

(30)

Square micropillars:

\[ v_{\text{calc}} = \frac{1}{\rho c_1} \left( \frac{4\gamma_{LA} \cos \theta_Y}{a \left( 1 + \left( \frac{b}{a} \right) \exp \right)^2 - 1} \right) \left( 7.53 \times 10^{-4} + \frac{4\gamma_{LA} \cos \theta_Y}{a \left( 1 + \left( \frac{b}{a} \right) \exp \right)^2 - 1} \right) \]  

(31)

Cylindrical micropillars:

\[ v_{\text{calc}} = \frac{1}{\rho c_1} \left( \frac{\pi \gamma_{LA} \cos \theta_Y}{a \left( 1 + \left( \frac{b}{a} \right) \exp \right)^2 - 1} \right) \left( 7.53 \times 10^{-4} + \frac{\pi \gamma_{LA} \cos \theta_Y}{a \left( 1 + \left( \frac{b}{a} \right) \exp \right)^2 - 1} \right) \]  

(32)

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.