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

Anjishnu Sarkar* and Anne-Marie Kietzig

Correction for 'Design of a robust superhydrophobic surface: thermodynamic and kinetic analysis' by Anjishnu Sarkar et al., *Soft Matter*, 2015, 11, 1998–2007.

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

Eqn (27) should read as follows:

$$h_{\text{WSDD,static}} = \frac{2\gamma_{LA}}{\rho g R} + \frac{4\gamma_{LA} a \cos \theta_Y}{\rho g b(2a + b)} \quad (27)$$

Eqn (28) should read as follows:

$$h_{\text{WSDD,dynamic}} = 7.53 \times 10^{-4} \frac{c_1 v}{g} + 0.5 \frac{v^2}{g} + \frac{4\gamma_{LA} a \cos \theta_Y}{\rho g b(2a + b)} \left(1 - \frac{2.57 \times 10^{-7}}{Nm^{-2}} \cdot \rho c_1 v \right) \quad (28)$$

Eqn (30)–(32) should read as follows:

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

$$v_{\text{calc}} = \frac{1}{\rho c_1} \frac{P_{\text{antiwetting}}}{\left(7.53 \times 10^{-4} + P_{\text{antiwetting}} \left(\frac{2.57 \times 10^{-7}}{Nm^{-2}} \right) \right)} \quad (30)$$

Square micropillars:

$$v_{\text{calc}} = \frac{1}{\rho c_1} \frac{4\gamma_{LA} |\cos \theta_Y|}{a \left(\left(1 + \left(\frac{b}{a} \right)_{\text{exp}}^2 \right) - 1 \right) \left(7.53 \times 10^{-4} + \frac{4\gamma_{LA} |\cos \theta_Y|}{a \left(\left(1 + \left(\frac{b}{a} \right)_{\text{exp}}^2 \right) - 1 \right)} \left(\frac{2.57 \times 10^{-7}}{Nm^{-2}} \right) \right)} \quad (31)$$

Cylindrical micropillars:

$$v_{\text{calc}} = \frac{1}{\rho c_1} \frac{\pi \gamma_{LA} |\cos \theta_Y|}{a \left(\left(1 + \left(\frac{b}{a} \right)_{\text{exp}}^2 \right) - 1 \right) \left(7.53 \times 10^{-4} + \frac{\pi \gamma_{LA} |\cos \theta_Y|}{a \left(\left(1 + \left(\frac{b}{a} \right)_{\text{exp}}^2 \right) - 1 \right)} \left(\frac{2.57 \times 10^{-7}}{Nm^{-2}} \right) \right)} \quad (32)$$

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

