Corrigendum to "Hydrodynamic and mass transfer in inertial gas–liquid flow regimes through straight and meandering millimetric square channels" [Chem. Eng. Sci. 66 (2011) 2974–2990]

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The authors inform that there is an error in Eq. (46) of the above paper; the correct version should be as follows:

$$k_l \cdot a = k_{l,f} \cdot a_f + k_{l,r} \cdot a_r = 2\sqrt{\pi} \cdot \frac{L_b - l}{L_{UC} \cdot l} \cdot \sqrt{\frac{D \cdot U}{(L_b - l)}} + \frac{2\sqrt{2}}{L_{UC}} \sqrt{\frac{D \cdot U}{l}}$$

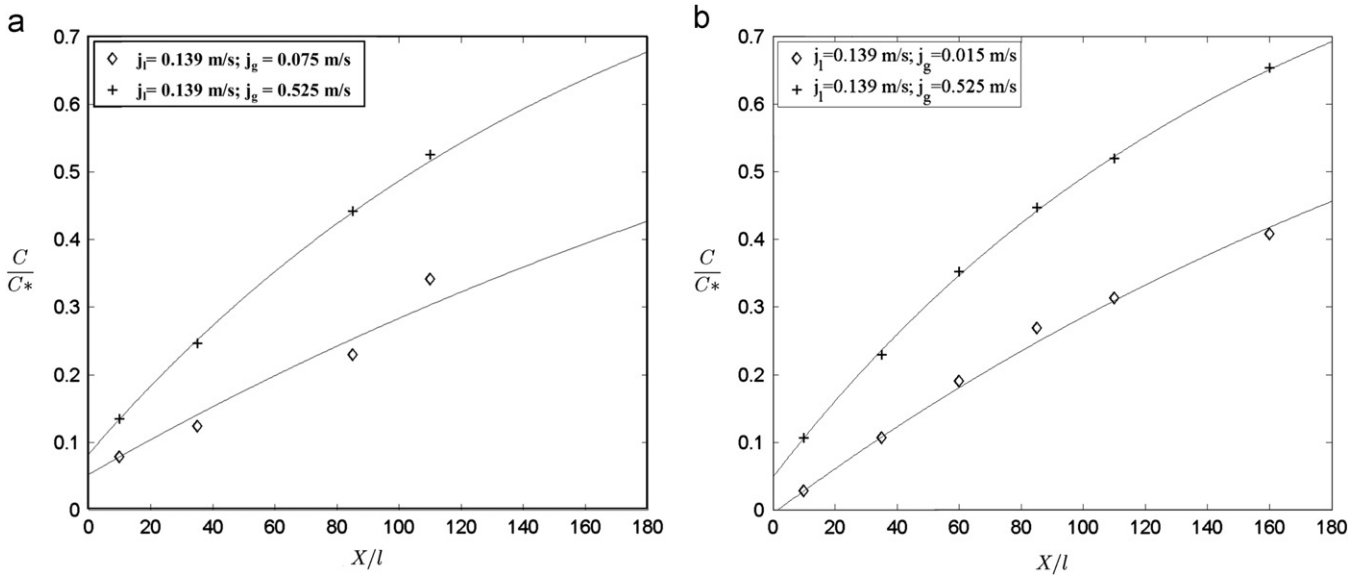

Fig. 12. Oxygen concentration at the exit of the channel C (normalized by saturation concentration C^*) versus length of gas-liquid flow X (normalized by channel size l) for j_l=0.139 m/s and various gas superficial velocities. X=0 corresponds to the channel exit (Fig. 2) and the continuous line results from the fitting of the experiment values by Eq. (28). (a) Straight channel. (b) Meandering channel.

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