The Langmuir model (1918)

where

* is the adsorbate concentration in the solid phase at equilibrium;
* is the adsorbate concentration in the fluid phase at equilibrium;
* is the maximum adsorption capacity of the monolayer;
* is the model constant;

Reference

THE ADSORPTION OF GASES ON PLANE SURFACES OF GLASS, MICA AND PLATINUM. Irving Langmuir

DOI: [10.1021/ja02242a004](https://doi.org/10.1021/ja02242a004)

Journal of the American Chemical Society **1918** *40* (9), 1361-1403