

Erratum: “Hydrogen collisions with transition metal surfaces: Universal electronically nonadiabatic adsorption” [J. Chem. Phys. 148, 034706 (2018)]

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In this erratum, we correct the parameters for the function S describing the sticking probability of H and D atoms to metal surfaces published earlier.¹ The parameters d and e were interchanged. The formula with the corrected parameters is given as follows:

$$S = (S_0 + a \cdot E_{in} + b \cdot M) * (1 - h(\vartheta_{in} - c)) \\ \times (1 - \cos(\vartheta_{in} - c)^{d \cdot h(E_{in} - e)(E_{in} - e)}),$$

where h is the Heaviside step function, $S_0 = 1.081$, $a = -0.125 \text{ eV}^{-1}$, $b = -8.40 \times 10^{-4} \text{ u}^{-1}$, $c = 28.88^\circ$, $d = 0.443 \text{ eV}^{-1}$, and $e = 1.166 \text{ eV}$ for H, and $S_0 = 1.120$, $a = -0.124 \text{ eV}^{-1}$, $b = -1.20 \times 10^{-3} \text{ u}^{-1}$, $c = 28.62^\circ$, $d = 0.474 \text{ eV}^{-1}$, and $e = 1.196 \text{ eV}$ for D.

REFERENCE

¹Y. Dorenkamp, H. Jiang, H. Köckert, N. Hertl, M. Kammler, S. M. Janke, A. Kandratsenka, A. M. Wodtke, and O. Bünermann, *J. Chem. Phys.* **148**, 034706 (2018).