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► **To cite this version:**

Y. Ferro, E.A. Hodille, J. Denis, Z.A. Piazza, M. Ajmalghan. Erratum: Hydrogen and oxygen on tungsten (110) surface: adsorption, absorption and desorption investigated by density functional theory (2023 Nucl. Fusion 63 036017). Nuclear Fusion, 2023, 63 (4), pp.049601. 10.1088/1741-4326/acbbc1 . cea-04765643

**HAL Id: cea-04765643**

**<https://cea.hal.science/cea-04765643v1>**

Submitted on 4 Nov 2024

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# Erratum: Hydrogen and oxygen on tungsten (110) surface: adsorption, absorption and desorption investigated by density functional theory (2023 *Nucl. Fusion* **63** 036017)

Y. Ferro<sup>1</sup> , E.A. Hodille<sup>2</sup> , J. Denis<sup>1</sup> , Z.A. Piazza<sup>1</sup> and M. Ajmalghan<sup>1</sup>

<sup>1</sup> Aix-Marseille University, CNRS, PIIM, Marseille F-13013, France

<sup>2</sup> CEA, IRFM, F-13108 Saint Paul Lez Durance, France

Received 14 February 2023

Accepted for publication 14 February 2023



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Due to an error in the production process, table 4 contains two citation errors. In two column sub-headings, what should be a citation for reference [17] is shown as '[17 16]' and linked to reference [16].

The corrected version is shown below.

## ORCID iDs

Y. Ferro  <https://orcid.org/0000-0002-3178-937X>

E.A. Hodille  <https://orcid.org/0000-0002-0859-390X>

J. Denis  <https://orcid.org/0000-0002-1478-0269>

## Reference

- [17] Ajmalghan M., Piazza Z.A., Hodille E. and Ferro Y. 2019 Surface coverage dependent mechanisms for the absorption and desorption of hydrogen from the W(110) and W(100) surfaces: a DFT investigation *Nucl. Fusion* **59** 106022

**Table 4.** Activation barriers in eV for the penetration of a hydrogen atom across the (110) tungsten surface. *Saturation* in adsorbate of the surface and *oversaturation* are considered. The coverages in oxygen are  $\theta_{\text{O}} = 0.25$  and  $\theta_{\text{O}} = 0.50$ . Also activation barriers (eV) for the penetration of hydrogen across the (110) clean surface of tungsten are reported from [17]. The rate limiting steps are displayed in bold for both the forward and backward diffusions mechanisms.

Site	Saturation						Over-saturation			
	$\theta_{\text{O}/\text{H}} = 0.50/0.50$		$\theta_{\text{O}/\text{H}} = 0.25/0.75$		$\theta_{\text{H}} = 1.00$ [17]		$\theta_{\text{O}/\text{H}} = 0.25/1.00$		$\theta_{\text{H}} = 1.25$ [17]	
	<i>forward</i>	<i>backward</i>	<i>forward</i>	<i>backward</i>	<i>forward</i>	<i>backward</i>	<i>forward</i>	<i>backward</i>	<i>forward</i>	<i>backward</i>
H <sub>2</sub> → Surf	0.03	<b>0.97</b>	0.01	<b>1.25</b>	0.04	<b>1.35</b>	0.03	<b>0.59</b>	0.11	<b>0.80</b>
Surf → Td <sub>2</sub>	<b>1.77</b>	0.34	<b>1.76</b>	0.21	<b>1.75</b>	0.20	<b>1.08</b>	0.36	<b>0.90</b>	0.11
Td <sub>2</sub> → Td <sub>3</sub>	0.44	0.32	0.26	0.13	0.09	0.26	0.45	0.23	0.07	0.90
Td <sub>3</sub> → Td <sub>4</sub>	0.23	0.30	0.27	0.34	0.37	0.27	0.25	0.31	0.11	0.18
Td <sub>4</sub> → Td <sub>5</sub>	0.15	0.18	0.15	0.18	0.19	0.14	—	—	0.06	0.17
Td <sub>5</sub> → Td <sub>6</sub>	0.16	0.19	0.17	0.20	0.21	0.18	—	—	0.33	0.27
Td <sub>6</sub> → Td <sub>7</sub>	0.25	0.25	0.24	0.23	—	—	—	—	0.20	0.16
Td <sub>7</sub> → Td <sub>8</sub>	0.20	0.17	0.20	0.18	—	—	—	—	0.21	0.19



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