

## CORRECTION

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## Correction: Hydrogen-activation mechanism of [Fe] hydrogenase revealed by multi-scale modeling

Arndt Robert Finkelmann,<sup>a</sup> Hans Martin Senn<sup>\*b</sup> and Markus Reiher<sup>\*a</sup>Correction for 'Hydrogen-activation mechanism of [Fe] hydrogenase revealed by multi-scale modeling' by Arndt Robert Finkelmann *et al.*, *Chem. Sci.*, 2014, 5, 4474–4482, DOI: 10.1039/C4SC01605J.

The authors regret that there were minor typographical errors in two figures. In Fig. 9 and 11, the internuclear distances were swapped. The Fe-bound hydrogen atoms are affected, where H<sub>p</sub> is the hydrogen atom proximal to the oxypyridine ligand and H<sub>d</sub> is the hydrogen atom distal to the oxypyridine ligand. In Fig. 9, left panel, the distance between H<sub>p</sub> and the oxypyridine O atom was given as 1.82 Å and the distance between H<sub>p</sub> and the Fe atom was given as 1.7 Å. However, it should read 1.82 Å between H<sub>p</sub> and Fe and 1.70 Å between H<sub>p</sub> and the oxypyridine O atom. In Fig. 11, top left panel, the distance between H<sub>p</sub> and Fe was shown to be 1.70 Å and the distance between H<sub>d</sub> and Fe was given as 1.73 Å. However, it should read 1.73 Å between H<sub>p</sub> and Fe and 1.70 Å between H<sub>d</sub> and Fe. The correct versions of these figures are given below. The results and conclusions are not affected by these typographical errors.

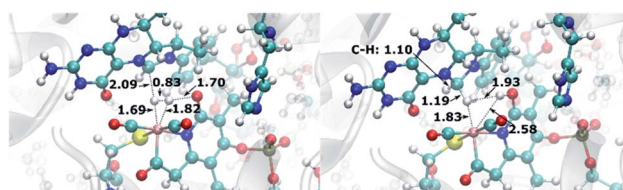


Fig. 9 QM/MM-optimized reactant (left) and product (right) structures of the H<sub>2</sub> cleavage reaction for the scenario with oxypyridine ligand. Distances are given in Å.

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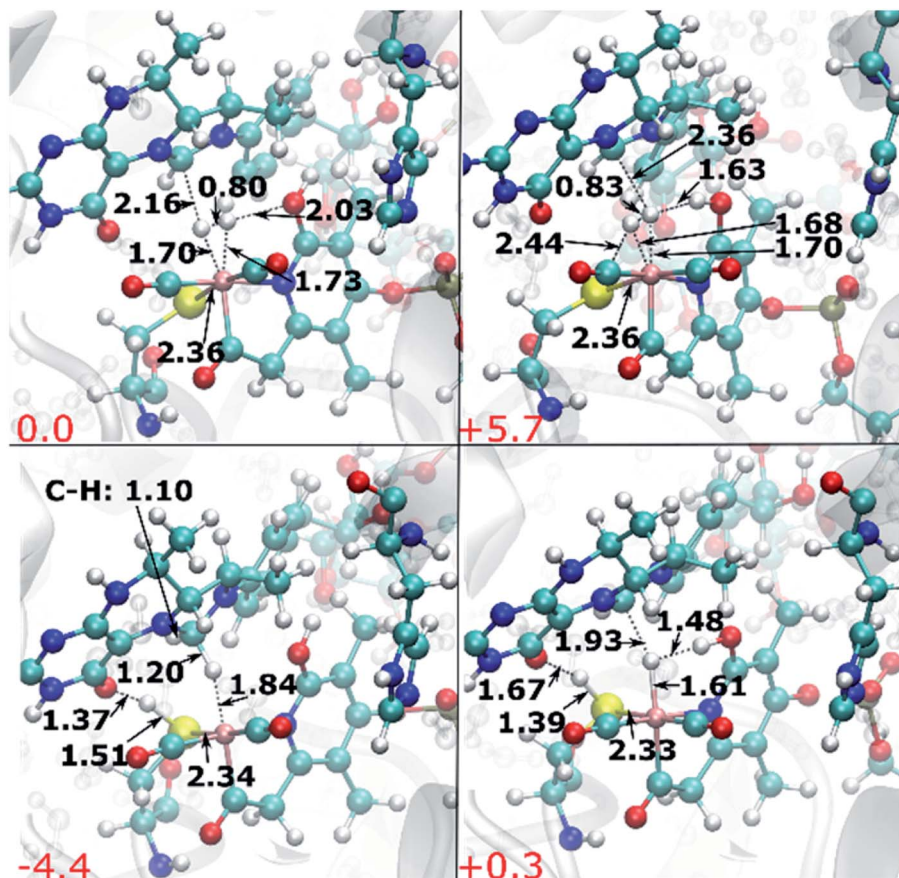


Fig. 11 Top row: structures of the H<sub>2</sub> adduct for the second scenario with neutral pyridinol; the pyridinol OH can be oriented away from Fe (top left) or towards Fe (top right). Bottom row: products of H<sub>2</sub> cleavage, with the proton transferred to the thiolate; with the hydroxyl oriented away from Fe (bottom left) and towards Fe (bottom right). Distances are given in Å; relative energies with respect to the favoured adduct are indicated in red in kcal mol<sup>-1</sup>.

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