



Cite this: *Chem. Soc. Rev.*, 2025, 54, 5735

DOI: 10.1039/d5cs90043c  
[rsc.li/chem-soc-rev](http://rsc.li/chem-soc-rev)

## Correction: Electrochemical nitrogen fixation and utilization: theories, advanced catalyst materials and system design

Wenhan Guo,<sup>a</sup> Kexin Zhang,<sup>a</sup> Zibin Liang,<sup>a</sup> Ruqiang Zou<sup>\*a</sup> and Qiang Xu<sup>\*bc</sup>

Correction for 'Electrochemical nitrogen fixation and utilization: theories, advanced catalyst materials and system design' by Wenhan Guo *et al.*, *Chem. Soc. Rev.*, 2019, **48**, 5658–5716, <https://doi.org/10.1039/C9CS00159J>.

The authors regret that the  $pK_a$  of hydrazine was incorrectly given in the original article. The correct value should be 7.93. This means that eqn (8) and (9) and Fig. 3 were incorrect. The correct versions are shown below. This also applies to the sentence beginning "For hydrazine, the case is similar...", where the boundary should be given as 7.93.

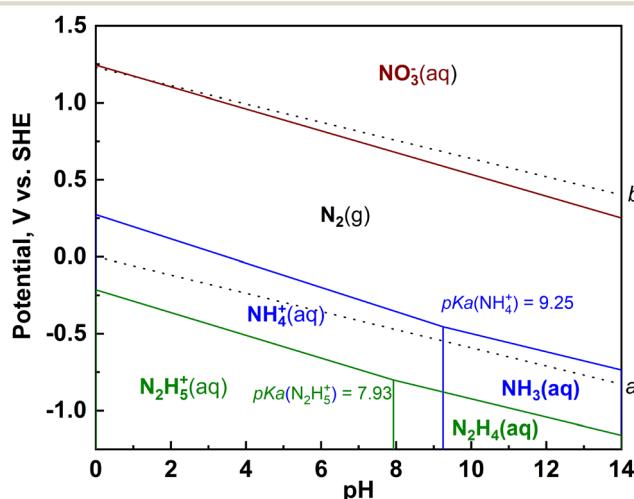
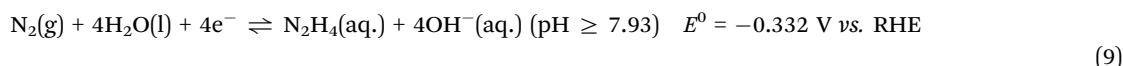
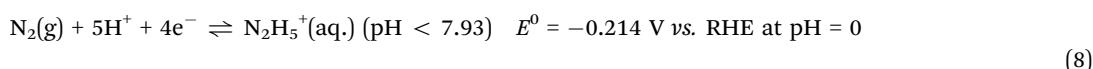


Fig. 3 Partial Pourbaix diagram of the  $\text{N}_2$ – $\text{H}_2\text{O}$  system including  $\text{N}_2$ ,  $\text{NH}_3$ ,  $\text{N}_2\text{H}_4$  and  $\text{NO}_3^-$ . Region between dotted lines a (HOR/HER) and b (OER/ORR) correspond to the condition of water stability. Reproduced with standard electrode potentials in water at 298.15 K from ref. 48.

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

<sup>a</sup> Beijing Key Laboratory for Theory and Technology of Advanced Battery Materials, Department of Materials Science and Engineering, College of Engineering, Peking University, Beijing 100871, P. R. China. E-mail: rzou@pku.edu.cn

<sup>b</sup> AIST-Kyoto University Chemical Energy Materials Open Innovation Laboratory (ChEM-OIL), National Institute of Advanced Industrial Science and Technology (AIST), Sakyo-ku, Kyoto 606-8501, Japan. E-mail: q.xu@aist.go.jp

<sup>c</sup> School of Chemistry & Chemical Engineering, Yangzhou University, Yangzhou 225009, P. R. China. E-mail: qxuchem@yzu.edu.cn

