

CORRECTION

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# Correction: Enhanced uptake of glyoxal at the acidic nanoparticle interface: implications for secondary organic aerosol formation

Qiuju Shi,<sup>a</sup> Weina Zhang,<sup>a</sup> Yuemeng Ji,<sup>ID</sup>\*<sup>a</sup> Jiaxin Wang,<sup>a</sup> Dandan Qin,<sup>a</sup> Jiangyao Chen,<sup>ID</sup><sup>ab</sup> Yanpeng Gao,<sup>a</sup> Guiying Li,<sup>ID</sup><sup>ab</sup> and Taicheng An,<sup>ID</sup><sup>a</sup>

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Correction for 'Enhanced uptake of glyoxal at the acidic nanoparticle interface: implications for secondary organic aerosol formation' by Qiuju Shi et al., *Environ. Sci.: Nano*, 2020, 7, 1126–1135, DOI: 10.1039/D0EN00016G.

There is an error in Fig. 6 and therefore the graphical abstract, which incorporates Fig. 6, also includes this error. The error does not affect the results in this section. The corrected figures appear below.

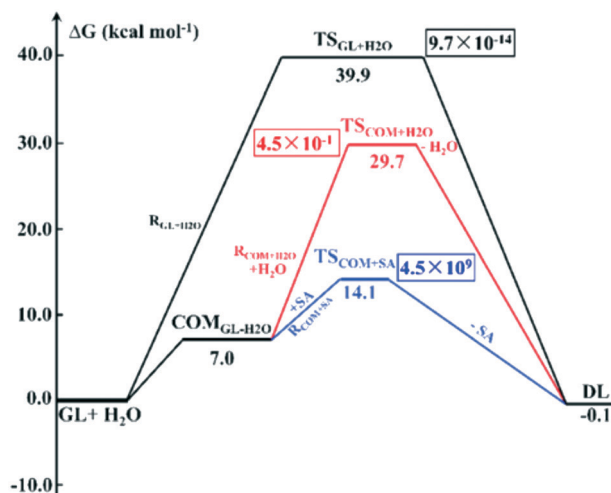
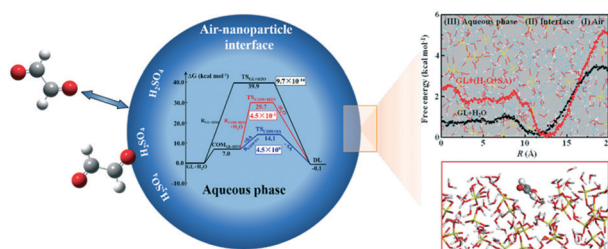


Fig. 6 The potential energy surface of the hydration reaction of GL in the neutral and acidic systems. The black line represents the direct hydration reaction of GL ( $R_{GL+H_2O}$ ). The red and blue lines represent the indirect hydration reaction of  $COM_{GL-H_2O}$  with  $H_2O$  and SA ( $R_{COM+H_2O}$  and  $R_{COM+SA}$ ), respectively. The unit of the rate constant is  $M^{-1} s^{-1}$ .

<sup>a</sup> Guangdong Key Laboratory of Environmental Catalysis and Health Risk Control, Guangzhou Key Laboratory Environmental Catalysis and Pollution Control, School of Environmental Science and Engineering, Institute of Environmental Health and Pollution Control, Guangdong University of Technology, Guangzhou 510006, China. E-mail: jiyu@gdut.edu.cn

<sup>b</sup> Synergy Innovation Institute of GDUT, Shantou 515041, China





### Graphical abstract

Correspondingly, in Section 3.3, on page 1131, the following sentence should be included in the third sentence of the third paragraph: “Herein, the discussed  $\Delta G^\ddagger$  value of  $R_{\text{COM}+\text{H}_2\text{O}}/R_{\text{COM}+\text{SA}}$  is defined as the difference between the energies of  $\text{TS}_{\text{COM}+\text{H}_2\text{O}}/\text{TS}_{\text{COM}+\text{SA}}$  and  $\text{COM}_{\text{GL}-\text{H}_2\text{O}}$ ”.

Additionally, the second sentence in the fourth paragraph should be “Our calculated  $\Delta G^\ddagger$  value of  $R_{\text{GL}+\text{H}_2\text{O}}$  agrees with the previous theoretical study ( $37.0 \text{ kcal mol}^{-1}$ )<sup>62</sup> which obtained the solvent energies based on the optimized gas-phase geometry”.

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

