

## CORRECTION

[View Article Online](#)  
[View Journal](#) | [View Issue](#)Cite this: *Mater. Horiz.*, 2024, 11, 862

DOI: 10.1039/d3mh90075d

[rsc.li/materials-horizons](https://rsc.li/materials-horizons)**Correction: Superprotonic conductivity in  $\text{RbH}_{2-3y}(\text{PO}_4)_{1-y}$ : a phosphate deficient analog to cubic  $\text{CsH}_2\text{PO}_4$  in the  $(1-x)\text{RbH}_2\text{PO}_4 - x\text{Rb}_2\text{HPO}_4$  system**

Grace Xiong, Louis S. Wang and Sossina M. Haile\*

Correction for 'Superprotonic conductivity in  $\text{RbH}_{2-3y}(\text{PO}_4)_{1-y}$ : a phosphate deficient analog to cubic  $\text{CsH}_2\text{PO}_4$  in the  $(1-x)\text{RbH}_2\text{PO}_4 - x\text{Rb}_2\text{HPO}_4$  system' by Grace Xiong *et al.*, *Mater. Horiz.*, 2023, **10**, 5555–5563, <https://doi.org/10.1039/D3MH00852E>.

The authors wish to clarify that the atomic displacements reported in Table 1 of the published article correspond to the unitless  $\beta_{\text{iso}}$  values. The  $U_{\text{iso}}$  values ( $\text{\AA}^2$ ) for Rb, P, and O are 0.068(2), 0.054(4), and 0.058(4), respectively.

The corrected form of Table 1 is shown here.

The supplementary information of the published article has also been updated accordingly (Tables S4 and S5).

**Table 1** Fractional atomic coordinates and displacement parameters of  $\alpha\text{-Rb}_{1+x}\text{H}_{2-x}\text{PO}_4$  at  $x = 0.180$  and  $T = 245^\circ\text{C}$ . Structure adopts space group  $Pm\bar{3}m$  with  $a = 4.7138(2)$  Å. The P–O bond distance is 1.51(2) Å. Numbers in parentheses reflect the uncertainty in the final digit(s) of the quoted values

Atom	<i>x</i>	<i>y</i>	<i>z</i>	Site	Occupancy <sup>a</sup>	$U_{\text{iso}}$ ( $\text{\AA}^2$ )
Rb	0	0	0	1a	1	0.068(2)
P	1/2	1/2	1/2	1b	0.85	0.054(4)
O	1/2	0.203(1)	0.375(2)	24l	0.14	0.058(4) <sup>b</sup>

<sup>a</sup> Fixed to match global chemistry. <sup>b</sup> Tied to the  $U_{\text{iso}}$  of P by a multiplicative factor of 1.073.

In addition, please note that the grant number DMR-2118201 mentioned in the Acknowledgements section of the published article is incorrect, it should be replaced with OAC-2118201. The corrected version of the Acknowledgements section is given below.

## Acknowledgements

Financial support has been provided by the National Science Foundation (DMR-1807234, OAC-2118201 and DGE-1842165). This work made use of the J. B. Cohen X-Ray Diffraction facility at Northwestern University, supported by the NSF MRSEC program (NSF DMR-1720139). We thank Elise Goldfine for assistance with diffraction measurements.

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