

## CORRECTION

[View Article Online](#)  
[View Journal](#) | [View Issue](#)**Correction: Deciphering the molecular origin of the 19.3 eV electronic excitation energy of H<sub>3</sub><sup>+</sup>**Cite this: *Chem. Sci.*, 2026, 17, 5277Josene M. Toldo,<sup>ab</sup> Jakob K. Staab,<sup>ac</sup> Eduard Matito,<sup>de</sup> Cina Foroutan-Nejad<sup>f</sup>  
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Correction for 'Deciphering the molecular origin of the 19.3 eV electronic excitation energy of H<sub>3</sub><sup>+</sup>' by Josene M. Toldo *et al.*, *Chem. Sci.*, 2026, <https://doi.org/10.1039/d6sc90067a>.[rsc.li/chemical-science](https://rsc.li/chemical-science)

The authors regret that panel A of Fig. 4 in the original article was not complete as its right part, with results for the excited state labelled 1<sup>1</sup>B<sub>2</sub>, was accidentally omitted. The missing part, with the topological analysis of the electron density, the 2D Laplacian of the electron density, and the natural orbitals of the 1<sup>1</sup>B<sub>2</sub> state, is contained in the new Fig. 4 shown as follows.

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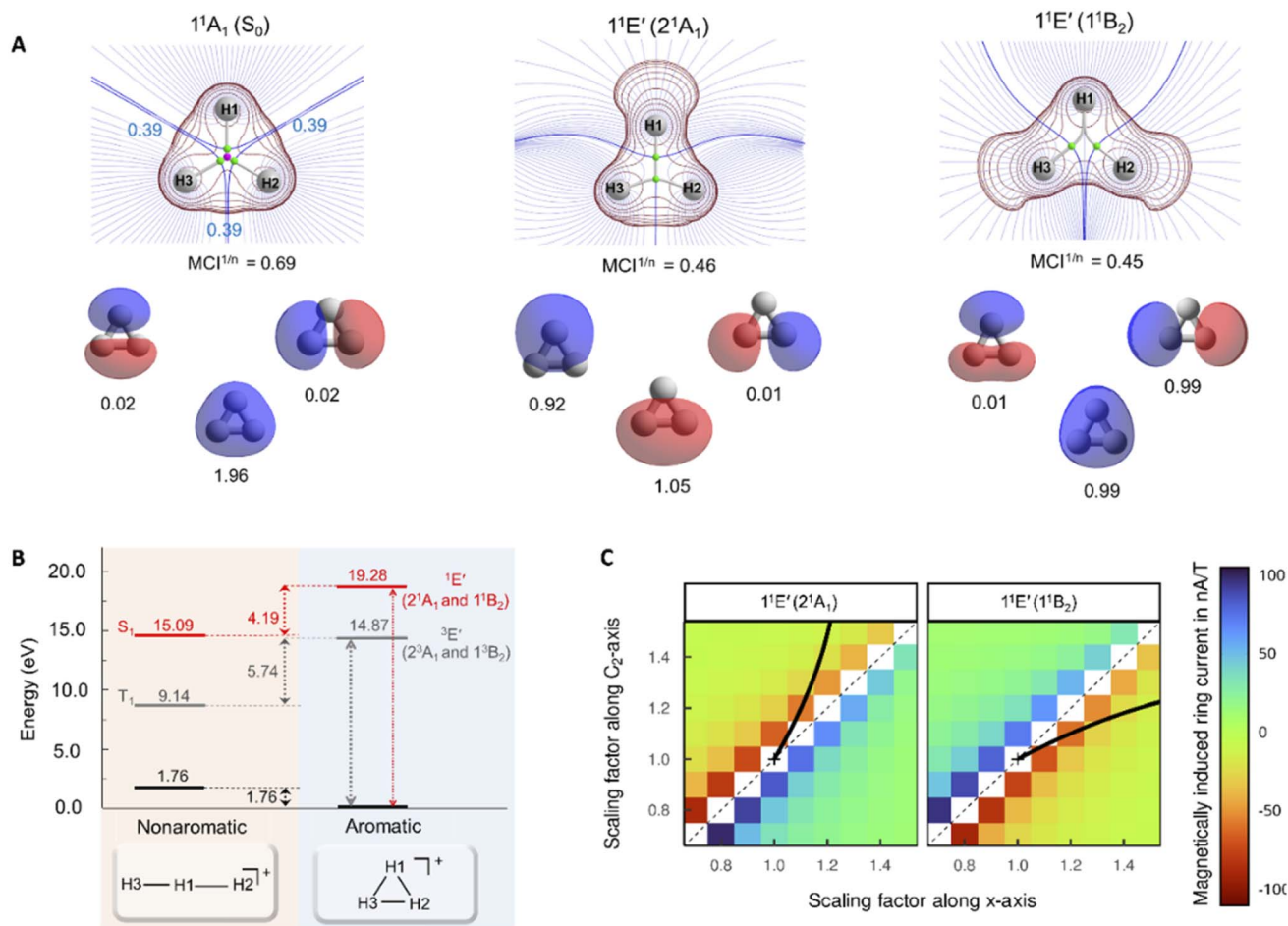


Fig. 4 (A) Topological analysis of the electron density, 2D Laplacian of the electron density (in red), and natural orbitals (with populations) for the  $S_0$  and  $1^1E'$  states, the latter labelled as  $2^1A_1$  and  $1^1B_2$  in  $C_{2v}$  symmetry. The rays of the basins drawn in blue and density gradient lines in purple.  $MCI^{1/n}$  values (computed using Becke-rho's partition)<sup>56</sup> are given below the Laplacian plots of the electron density. (B) Vertical excitation energies and relative energies of  $H_3^+$  at, respectively,  $D_{\infty h}$  and  $D_{3h}$  symmetries. (C) Magnetically induced ring currents for the  $2^1A_1$  and  $1^1B_2$  states which stem from the  $1^1E'$  states upon geometric distortions to  $C_{2v}$  symmetric structures. The scaling factors reflect how large this distortion was (the value 1.0 represents the H–H bond lengths of the  $S_0$  equilibrium geometry). The  $C_2$ -axis indicates distortions in the direction of forming an acute isosceles triangle (moving H1 atom) and the x-axis distortions along an obtuse isosceles triangle formation (increasing the separation between H2 and H3).

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

