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CORRECTION

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Cite this: Phys. Chem. Chem. Phys., 2023, **25**, 19269

Correction: Terahertz spectroscopy of the helium endofullerene He@C $_{60}$

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DOI: 10.1039/d3cp90140h

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Correction for 'Terahertz spectroscopy of the helium endofullerene He@C₆₀' by Tanzeeha Jafari *et al.*, *Phys. Chem. Chem. Phys.*, 2022, **24**, 9943–9952, https://doi.org/10.1039/D2CP00515H.

Eqn (12) in the published version of this manuscript contained some errors. The equation should have read as:

$$\langle l_{\rm f} \parallel T_k \parallel l_{\rm i} \rangle = (-1)^{l_{\rm f}} \sqrt{\frac{(2l_{\rm f}+1)(2k+1)(2l_{\rm i}+1)}{4\pi}} \binom{l_{\rm f} \quad k \quad l_{\rm i}}{0 \quad 0 \quad 0}$$

In addition, the published version of this manuscript contains missing information in some of the sentences. The corrected sentences are listed as follows:

1. Introduction:

Page 9944, left column, 1st paragraph – 'The incarceration of large noble gas atoms results in the structural and electronic distortion of C_{60} which has been examined by IR and Raman,³⁴ NMR,³⁷ X-ray³⁸ and electronic spectroscopy.³⁹

Page 9944, left column, 2nd paragraph – 'It was spotted by mass spectrometry when the ⁴He atom was incorporated in C_{60} as the highly accelerated C_{60}^+ ions struck with helium gas⁹ and later found in fullerenes produced by arc discharge in the He gas.⁶, 2. Theory:

Page 9944, left column, 1st paragraph – 'Also, we ignore the effect of the translational motion of C_{60} in the crystal lattice and its molecular vibrations.'

Page 9945, right column, 1st paragraph – 'Factor $(\eta^2 + 2)/3$ is the enhancement of radiation electric field at the molecule embedded in dielectric⁴⁷ and η is the index of refraction (for C₆₀ η = 2, ref. 48).'

3. Discussion:

Page 9947, left column, 2nd paragraph – 'Although the anharmonic contributions to the H_2 potential have been determined experimentally,^{15,22,23} a more detailed comparison with He is not meaningful as firstly, H_2 has translation–rotation coupling terms in the potential and secondly, it misses the V_6 term in the potential fit.'

Page 9947, right column, Fig. 3 caption – 'The anharmonic terms in the potential, V_4 and V_6 , split the energy levels with different *l* and each energy level has the unique *l* value within the spherical symmetry, on the right.'

Page 9947, right column, 1st paragraph – 'In general, the interaction of neutral *A* with C_{60} can be separated into repulsive interaction and electrostatic interaction expanded in induction and dispersion terms.³³ Since He has no electric dipole nor quadrupole moment the induction terms are zero.'

Page 9947, right column, 2nd paragraph – 'To further validate the potential parameters of $He@C_{60}$ obtained from the fit of single high temperature spectra we compare the temperature dependence of line intensities of measured and calculated spectra, Fig. 4.'

Page 9948, left column, 1st paragraph – 'The dipole moment of He is induced by the displacement from the C_{60} cage center.' The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.



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