

## CORRECTION

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## Correction: New light on an old debate: does the RCN–PtCl<sub>2</sub> bond include any back-donation? RCN ← PtCl<sub>2</sub> backbonding vs. the IR $\nu_{\text{C}\equiv\text{N}}$ blue-shift dichotomy in organonitriles–platinum(II) complexes. A thorough density functional theory – energy decomposition analysis study

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Correction for 'New light on an old debate: does the RCN–PtCl<sub>2</sub> bond include any back-donation? RCN ← PtCl<sub>2</sub> backbonding vs. the IR  $\nu_{\text{C}\equiv\text{N}}$  blue-shift dichotomy in organonitriles–platinum(II) complexes. A thorough density functional theory – energy decomposition analysis study' by Girolamo Casella et al., *Dalton Trans.*, 2019, DOI: 10.1039/c9dt02440a.

DOI: 10.1039/c9dt90189b

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### (i) In the "Abstract" section

#### Erratum

"...RCN–X (X = H<sup>+</sup>, alkaline, Lewis acids)".

#### Corrigendum

"...RCN–X (X = H<sup>+</sup>, Lewis acids)".

### (ii) In the "Introduction" section

Reference 6b, instead of reference 1, must be cited at the end of this sentence.

#### Erratum

"The explanation of this behavior based solely on the  $\sigma/\pi$  donation/backdonation orbital interaction model discussed earlier, would imply the lack of any N ← Pt  $\pi$  back-donation, or at least the occurrence of such interaction which cannot overcome the effect of the N → Pt  $\sigma$  donation".<sup>1</sup>

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"The explanation of this behavior based solely on the  $\sigma/\pi$  donation/backdonation orbital interaction model discussed earlier, would imply the lack of any N ← Pt  $\pi$  back-donation, or at least the occurrence of such interaction which cannot overcome the effect of the N → Pt  $\sigma$  donation".<sup>6b</sup>

### (iii) In the "EDA\_NOCV analysis" section

#### Erratum

"The results are given in Table 4 and indicate that the total N ← Pt  $\pi$  back-donation represents about 30% of the total  $\Delta E_{\text{Orb}}$  term and ranges from 32% to 37% with respect to the N → Pt  $\sigma$  interaction which means that the orbital interaction..."

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"The results are given in Table 4 and indicate that the total N ← Pt  $\pi$  back-donation represents about 30% of the total  $\Delta E_{\text{Orb}}$  term and ranges from 32% to 37% with respect to the total N–Pt  $\sigma + \pi$  interactions which means that the orbital interaction..."

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**(iv) In the (a) “Infrared properties of the CN bond” and (b) “Conclusion” sections**

Reference 24 in the following sentences should be replaced by ref.19, i.e.:

**(a) Erratum**

“These results indicate that the  $\nu\text{C}\equiv\text{N}$  blue-shift in these complexes is not correlated to the  $\text{C}\equiv\text{N}$  bond strength, in agreement with what is already reported for some  $\text{Pt}(\text{II,IV})\text{-N}$  systems, including the herein investigated *trans*-1”.<sup>24</sup>

**Corrigendum**

“These results indicate that the  $\nu\text{C}\equiv\text{N}$  blue-shift in these complexes is not correlated to the  $\text{C}\equiv\text{N}$  bond strength, in agreement with what is already reported for some  $\text{Pt}(\text{II,IV})\text{-N}$  systems, including the herein investigated *trans*-1”.<sup>19</sup>

**(b) Erratum**

“In this context, EDA-NOCV further confirmed that the  $\nu\text{C}\equiv\text{N}$  was not correlated to the  $\text{C}\equiv\text{N}$  bond strength as already previously found”.<sup>24</sup>

**Corrigendum**

“In this context, EDA-NOCV further confirmed that the  $\nu\text{C}\equiv\text{N}$  was not correlated to the  $\text{C}\equiv\text{N}$  bond strength as already previously found”.<sup>19</sup>

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

