Erratum to:

Noble gas-coinage metal interactions of $(\text{AuRn}^+)_{\text{n}}$ ($\text{n} = 1\text{--}3$) series: *ab initio* calculations

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In Belpassi and co-workers' paper [J. Am. Chem. Soc. **130**, 1048 (2008)], they have first proposed the charge displacement function, which is today a well established and successful tool for chemical bond analysis in a wide variety of contexts.

In our present paper, we named the “charge displacement function” as “integrated charge transfer” without the citation of the source paper [J. Am. Chem. Soc. **130**, 1048 (2008)]. Professor Tarantelli pointed out my fault. We take this opportunity to thanks professor Tarantelli and co-workers for checking and correcting. We learned much from the paper and their work team, we should show respect to the reported valuable results and methods, and want to publish the erratum to correct the paper and apologize.

(1) For the paper,

The “integrated charge transfer” should be “charge displacement”.

(2) Reference [16] of the paper should be cited.

Page 3:

The sentence, “Topological analyses of the Laplacian, electron density difference distribution, integrated charge transfer Q , electron localization function...” should be “Topological analyses of the Laplacian, electron density difference distribution, charge displacement [16], electron localization function...”

Page 4:

The sentence, “... and is defined as follows” should be “... and is defined as follows [16]”

The equation ($Q(z) = \int_{-\infty}^{-\infty} dx \int_{-\infty}^{-\infty} dy \int_{-\infty}^z \Delta\rho dz$) should be

$$Q(z) = \int_{-\infty}^{+\infty} dx \int_{-\infty}^{+\infty} dy \int_{-\infty}^z \Delta\rho(x, y, z') dz'$$

Numerical results and discussions in the paper are not affected by these corrections.

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