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Correction: General optimization procedure towards the design of a new family of minimal parameter spin-component-scaled double-hybrid density functional theory†

Loïc M. Roch‡[ab] and Kim K. Baldridge§*[ab]

Correction for 'General optimization procedure towards the design of a new family of minimal parameter spin-component-scaled double-hybrid density functional theory' by Loïc M. Roch and Kim K. Baldridge, *Phys. Chem. Chem. Phys.*, 2017, **19**, 26191–26200.

In eqn (1) and (3), C_X should be defined as the coefficient scaling the exact HF exchange, and, thus, $(1 - C_X)$ as the coefficient scaling the approximate GGA exchange. Consequently, eqn (1) should read:

$$E_{XC}^{DSD-DFT} = (1 - C_X)E_X^{GGA} + C_X E_X^{HF} + C_C E_C^{GGA} + C_O E_O^{MP2} + C_S E_S^{MP2} + S_6 E_D$$

(1)

and eqn (3) should read:

$$E_{XC}^{mSD-DFT} = (1 - C_X)E_X^{GGA} + C_X E_X^{HF} + C_C E_C^{GGA} + (1 - C_C)E_{(2)}^{SCS-MP2}$$

(3)

Note that C_{HF}, which is not formally introduced although used in the manuscript, in Fig. 2–4 and in the ESI, scales the HF exchange of the mSD-DF. As such, C_{HF} is equivalent to C_X.

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

[a] Department of Chemistry, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. E-mail: kimb@tju.edu.cn

[b] Health Sciences Platform, University of Tianjin, 92 Weijin Road, Nankai District, Tianjin-3000072, P. R. China

4606 | *Phys. Chem. Chem. Phys.*, 2018, **20**, 4606

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