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CORRECTION

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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;

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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:

$$E_{\rm XC}^{\rm DSD-DFT} = (1 - C_{\rm X})E_{\rm X}^{\rm GGA} + C_{\rm X}E_{\rm X}^{\rm HF} + C_{\rm C}E_{\rm C}^{\rm GGA} + C_{\rm O}E_{\rm O}^{\rm MP2} + C_{\rm S}E_{\rm S}^{\rm MP2} + S_{\rm 6}E_{\rm D}$$
(1)

and eqn (3) should read:

$$E_{\rm XC}^{\rm mSD\text{-}DFT} = (1 - C_{\rm X})E_{\rm X}^{\rm GGA} + C_{\rm X}E_{\rm X}^{\rm HF} + C_{\rm C}E_{\rm C}^{\rm GGA} + (1 - C_{\rm C})E_{(2)}^{\rm SCS\text{-}MP2}$$
(3)

Note that $C_{\rm HF}$, 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, $C_{\rm HF}$ is equivalent to $C_{\rm X}$.

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

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[†] Electronic supplementary information (ESI) available: Basis set considerations, tabulation of interaction energies of the complexes included in the training set, grid refinement and scaled RMSD. See DOI: 10.1039/c8cp90025f

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