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Correction: *De novo* prediction of cross-effect efficiency for magic angle spinning dynamic nuclear polarization

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Correction for 'De novo prediction of cross-effect efficiency for magic angle spinning dynamic nuclear polarization' by Frédéric Mentink-Vigier et al., *Phys. Chem. Chem. Phys.*, 2019, **21**, 2166–2176, DOI: 10.1039/C8CP06819D.

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The authors wish to correct the sign of the J -exchange interaction in Table 1 in order to match the convention defined in the Supporting Information. The J -exchange interaction values are all negative under the convention $\left(\hat{H}_{\text{exchange}} = -2J_{a,b} \vec{S}_a \cdot \vec{S}_b\right)$.

The corrected version of Table 1 is shown below.

Table 1 List of the calculated (DFT) and experimental geometric parameters (after fitting) for the TEKPol and AMUPol biradicals. Euler angles are given in degrees with respect to the first g -tensor, using Easyspin's v 5.1 rotation convention (active rotation).⁶⁷ The g -strains for the simulations are proportional to $([1.3 \times (g_x - 2), g_y - 2, g_z - 2] \times 6\%)$ and are $[0.8, 0.35, 0.13] \times 10^{-3}$ for TEKPol and $[0.8, 0.3, 0.12] \times 10^{-3}$ for AMUPol

Biradical	g -Tensor [g_x, g_y, g_z]	g -Tensor relative orientation (α, β, γ)	¹⁴ N hyperfine coupling (MHz)	Dipolar coupling/ J -exchange interaction (MHz)	Dipolar orientation (ϕ, θ)
TEKPol DFT	[2.0094, 2.0070, 2.0024]	[-70.4, 79.7, -63.7]	n.c. ^a	30.5/n.c.	[10, 66.3]
TEKPol Exp.	[2.0095, 2.0060, 2.0021] $\pm 2 \times 10^{-4}$	[-75.4, 79.6, -58.6] ± 2.5	[18, 16, 98] ± 2	30.5 ± 1 / -1 ± 1	[10, 66.3] ± 3
AMUPol DFT	[2.0091, 2.0067, 2.0024]	[125.1, 129.7, -46.6]	n.c. ^a	34.75/n.c.	[-174.6, 74]
AMUPol Exp.	[2.0092, 2.0061, 2.0020] $\pm 2 \times 10^{-4}$	[123.1, 129.8, -46] $\pm [2.5, 5, 2.5]$	[18, 17, 100] ± 2	35 ± 2 / -16 ± 2	[-174, 76] ± 5

^a n.c. = not calculated.

A sentence in the conclusion should also be modified to: "it clearly confirms the presence of an exchange interaction of ~ -15 MHz and a dipolar coupling of ~ 35 MHz for AMUPol, as initially reported,^{23,30} although it was a matter of debate⁷⁸ until recently.⁶⁸"

In addition, Fig. 4 was incorrect: the grey overlay representing the error was shifted. The corrected figure is shown below.

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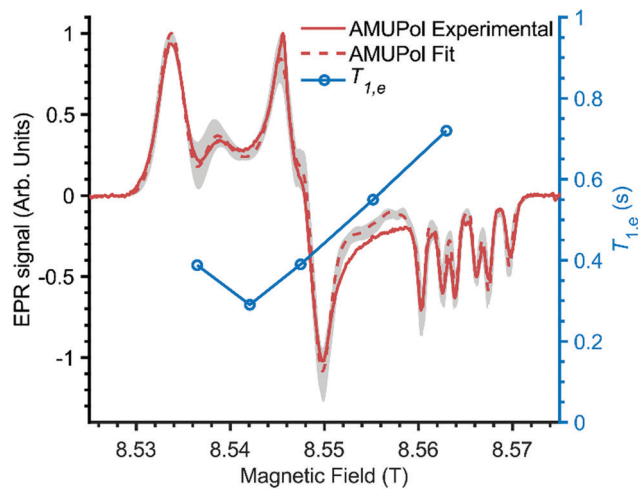


Fig. 4 High-field EPR spectrum of 10 mM of AMUPol in D_8 -glycerol/ D_2O / H_2O (60/30/10 v%) + 2M ^{13}C -urea, recorded at 100 K, for a microwave frequency of 240 GHz. The red curve represents the experimental spectrum and the red dashed line represents the theoretical EPR spectrum obtained with fitted parameters reported in Table 1. The blue dots correspond to the measured electron spin–lattice relaxation times, T_{1e} (right axis).

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

