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CORRECTIONS

Publisher Correction: O_2—O_2 and O_2—N_2 collision-induced absorption mechanisms unravelled

Tijs Karman, Mark A. J. Koenis, Agniva Banerjee, David H. Parker, Iouli E. Gordon, Ad van der Avoird, Wim J. van der Zande and Gerrit C. Groenenboom

Correction to: *Nature Chemistry* https://doi.org/10.1038/s41557-018-0015-x, published online 9 April 2018.

In the version of this Article originally published, Figures 3 and 4 were erroneously swapped, this has been corrected in all versions of the Article.

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Retraction Note: Catalytic living ring-opening metathesis polymerization

Amit A. Nagarkar and Andreas F. M. Kilbinger

Retraction of: *Nature Chemistry* https://doi.org/10.1038/nchem.2320, published online 10 August 2015.

We the authors are retracting this Article because of our failure to reproduce the molecular weight dispersities (PDI) shown in Fig. 4 using the chain-transfer agent described in the paper (**CTA1**). While the degenerate chain-transfer mechanism described in Fig. 3 is correct, the best molecular weight dispersities that could be reproduced with the chain-transfer agent shown in the Article are much larger (PDI > 2.0) than reported.

We have since studied the kinetics of **CTA1** in comparison with several other chain-transfer agents we are currently investigating and we now understand that the reactivity of **CTA1** towards propagating ruthenium alkylidene complexes is very low. Very long monomer addition times would therefore have been necessary to gain control over the molecular weight distribution. Such long addition times would exceed the lifetime of the Grubbs catalyst in solution. Faster addition of the monomer has since repeatedly been shown to broaden the molecular weight dispersity.

Additionally, the best chain-transfer agents we are currently investigating are orders of magnitude more reactive than **CTA1** but give broader molecular weight dispersities than reported in Fig. 4. Molecular weight and dispersity control as shown in Fig. 4 is therefore an inappropriate claim for **CTA1**.

The authors deeply regret these errors and apologize to the community.

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