

CORRECTION

[View Article Online](#)
[View Journal](#) | [View Issue](#)Cite this: *Chem. Sci.*, 2020, **11**, 12371

DOI: 10.1039/d0sc90242j

rsc.li/chemical-science

Correction: Polariton chemistry: controlling molecular dynamics with optical cavities

Raphael F. Ribeiro, Luis A. Martínez-Martínez, Matthew Du, Jorge Campos-Gonzalez-Angulo and Joel Yuen-Zhou*

Correction for 'Polariton chemistry: controlling molecular dynamics with optical cavities' by Raphael F. Ribeiro *et al.*, *Chem. Sci.*, 2018, **9**, 6325–6339, DOI: 10.1039/C8SC01043A.

The authors regret that incorrect values are reported in Table 1 of the original article. The corrected Table 1 is shown below.

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

Table 1 Timescales relevant for the description of organic (*J*-aggregate) microcavity relaxation dynamics at room temperature^a

Process	Initial state(s)	Final state(s)	Timescale	Ref. in original article	Ref. in this Correction
Rabi oscillations	—	—	15–80 fs (50–300 meV)	93	1
Cavity leakage	Cavity photon	—	35–100 fs	94–96	2–4
Vibrational relaxation	UP	Dark states	~50 fs	11	5
	Dark states	LP	~10 ps	99	6
Photoluminescence	UP	—	~100 fs	95	3
	LP	—	~100 fs	95	3
	Bare exciton	—	~1–100 ps	94, 100 and 101	2, 7 and 8

^a In typical organic dyes, vibrational relaxation following electronic excitation occurs on the order of 10–1000 fs.^{9,10}

References

- 1 P. A. Hobson, W. L. Barnes, D. G. Lidzey, G. A. Gehring, D. M. Whittaker, M. S. Skolnick and S. Walker, *Appl. Phys. Lett.*, 2002, **81**, 3519–3521.
- 2 J.-H. Song, Y. He, A. V. Nurmikko, J. Tischler and V. Bulovic, *Phys. Rev. B: Condens. Matter Mater. Phys.*, 2004, **69**, 235330.
- 3 P. Michetti and G. C. La Rocca, *Phys. Rev. B: Condens. Matter Mater. Phys.*, 2008, **77**, 195301.
- 4 D. M. Coles, P. Michetti, C. Clark, W. C. Tsoi, A. M. Adawi, J.-S. Kim and D. G. Lidzey, *Adv. Funct. Mater.*, 2011, **21**, 3691–3696.
- 5 V. M. Agranovich, M. Litinskaya and D. G. Lidzey, *Phys. Rev. B: Condens. Matter Mater. Phys.*, 2003, **67**, 085311.
- 6 M. Litinskaya, P. Reineker and V. M. Agranovich, *J. Lumin.*, 2004, **110**, 364–372.
- 7 S. Wang, T. Chervy, J. George, J. A. Hutchison, C. Genet and T. W. Ebbesen, *J. Phys. Chem. Lett.*, 2014, **5**, 1433–1439.
- 8 K. Miyano, H. Ishikawa and A. Tomioka, *Mater. Sci. Eng., B*, 1997, **48**, 122–125.
- 9 A. J. Taylor, D. J. Erskine and C. L. Tang, *Chem. Phys. Lett.*, 1984, **103**, 430–435.
- 10 D. Reiser and A. Laubereau, *Opt. Commun.*, 1982, **42**, 329–334.

