

# Errata for published works

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1. **E. Kim, et al. Appl. Phys. Lett 106, 161101 (2015).**

- In Eq. (2) a factor of -1 has been omitted. It should read:

$$n_r x \left[ -\frac{1}{\lambda} \frac{d\lambda}{dT} + \frac{1}{R} \frac{dR}{dT} + \frac{1}{n_r} \frac{dn_r}{dT} \right] = \frac{M}{(m^2 - 1)^{3/2}} \frac{dm}{dT}. \quad (1)$$

All presented data is nevertheless correct as this omission was not made in the numerical calculations.

2. **M. D. Baaske, et al. Nature Nanotech. 9, 933-939 (2014).**

- Supplementary information - Section 2.3. The calculated size of the DNA strand was incorrect. Assuming a single base is  $3.4 \text{ \AA} \times 10 \text{ \AA}$ , and assuming the bases are arranged such that long edges of the bases are parallel, the total length of a 22 base strand is 7.84 nm, and not the 3.74 nm quoted. Accordingly the expected unenhanced resonance shift is calculated to be 0.00046 fm, whilst the enhanced resonance shift is then 0.37 fm.
- Supplementary information - Section 3. The sentence which reads “Noting the peak amplitude in the presence of the NP is  $\sim 4$ , as compared to the amplitude at the same position without the NP of  $\sim 0.25$ , the maximum intensity enhancement ...” should read “Noting the peak amplitude in the presence of the NP is  $\sim 4$ , as compared to the amplitude at the same position without the NP of  $\sim 0.5$ , the maximum intensity enhancement ...”

3. **M. R. Foreman, et al. Eur. Phys. J. Spec. Top. 223, 1971-1988 (2014).**

- In Table 1 of this article, a sign error was made in the calculation of the refractive index of polystyrene. The correct table polarisabilities are given in Table 1 below. We also note particle polarisabilities are calculated assuming particles are in air.

Table 1. Corrected polarisability for polystyrene particles.

Particle material	$\lambda$ (nm)	5 nm radius			50 nm radius		
		$\Re[\alpha]$ (nm <sup>3</sup> )	$\Im[\alpha]$ (nm <sup>3</sup> )	$ \alpha ^2$ (10 <sup>6</sup> nm <sup>6</sup> )	$\Re[\alpha]$ (10 <sup>6</sup> nm <sup>3</sup> )	$\Im[\alpha]$ (10 <sup>3</sup> nm <sup>3</sup> )	$ \alpha ^2$ (10 <sup>12</sup> nm <sup>6</sup> )
Poly-styrene	1560*	504.0	-	0.2540	0.5051	-	0.2551
	1080	516.3	-	0.2665	0.5187	-	0.2691
	670	526.0	-	0.2766	0.5317	-	0.2828
	405	561.2	-	0.3149	0.5675	-	0.3263

4. **M. R. Foreman, et al. *Opt. Express* **22**, 5491-5511 (2014).**

- In Figure 1, the label on the vertical axis which is printed as “ $AI_0$ ”, should read “ $(1 - A)I_0$ ” to be consistent with the definition of the lineshape given in Eq. (1).
- The sentence reading “Furthermore, smaller cavities imply smaller mode volumes such that the variance of temperature fluctuations,  $\sigma_t$ , are also smaller [25].” is incorrect. The variance of temperature fluctuations according to [25] goes as  $1/V$ , such that smaller volumes imply larger fluctuations.
- Under Eq. (20), the permittivity factor in the definition of the electromagnetic energy density should be that of the cavity, i.e.  $\epsilon_c$ , such that the full expression reads  $U = \frac{1}{2}\epsilon_0\epsilon_c \int |\mathbf{E}(\mathbf{r})|^2 dV$

5. **M. R. Foreman and F. Vollmer, *Phys. Rev. A* **88**, 023831 (2013)**

- A sign error was made in Eq. 6. It should read:

$$k_{12}^2 - k_{12}(k_1 + k_2 + iJ) + k_1k_2 = -ik_1J - K \quad (2)$$

This error has also been propagated to Eq. (9).

6. **M. R. Foreman and F. Vollmer, *New J. Phys.* **15**, 083006 (2013)**

- Inner radius of core shell nanoparticle is  $r_{IV}$ , whilst outer radius is  $r_{III}$ . The ratio of inner to outer ratio is thus  $f = r_{IV}/r_{III} < 1$ . On page 17 and on the horizontal axis of the inset of Figure 5, this ratio is incorrectly defined.

7. **M. R. Foreman *Informational limits in optical polarimetry and vectorial imaging* (Springer, 2012).**

- In Eq. (4.52)  $\phi$  should be replaced with  $\varphi$ .
- In Eq. (4.55) a factor of -1 has been omitted.
- In the caption of Figs 4.6 and 4.7 the values of  $\bar{\zeta}$  have been incorrectly quoted.  $q$  is quoted correctly throughout. The parameter values for curves in Fig 2 are (a), (b) and (c) are:  $\bar{\zeta} = 1$  ( $q = 0$ , coherent), (b)  $\bar{\zeta} = 2/3$  ( $q = 0.62$ ), and (c)  $\bar{\zeta} = 1/3$  ( $q = 0.89$ ) and similarly for (d), (e) and (f). In Figure 3 the correct parameters running from top to bottom are  $\bar{\zeta} = 1$  ( $q = 0$ , coherent),  $\bar{\zeta} = 2/3$  ( $q = 0.62$ ), and  $\bar{\zeta} = 1/3$  ( $q = 0.89$ ). Values of  $\bar{\zeta}$  are also incorrectly quoted in the text following Eq. (4.88). The quoted values should be  $\bar{\zeta} = 1, 2/3, 1/3$ .

8. **M. R. Foreman and P. Török, *J. Mod. Opt.* **58**, 339-364 (2011)**

- In Eq. (15c) a factor of -1 has been omitted.

**9. M. R. Foreman and P. Török, Phys. Rev. A 82, 043835 (2010)**

- The sentence which reads “...could be found by integrating the  $N_w$ -dimensional  $\chi^2$ -squared probability distribution from 0 to  $c^2$ .” should read “...could be found by integrating the  $N_w$ -dimensional  $\chi^2$ -squared probability distribution from 0 to  $c_0^2$ .”

**10. M. R. Foreman and P. Török, J. Opt. Soc. Am. A 26, 2470-2479 (2009).**

- In the caption of Figs 2. and 3 the values of  $\bar{\zeta}$  have been incorrectly quoted.  $q$  is quoted correctly throughout. The parameter values for curves in Fig 2 are (a), (b) and (c) are:  $\bar{\zeta} = 1$  ( $q = 0$ , coherent), (b)  $\bar{\zeta} = 2/3$  ( $q = 0.62$ ), and (c)  $\bar{\zeta} = 1/3$  ( $q = 0.89$ ) and similarly for (d), (e) and (f). In Figure 3 the correct parameters running from top to bottom are  $\bar{\zeta} = 1$  ( $q = 0$ , coherent),  $\bar{\zeta} = 2/3$  ( $q = 0.62$ ), and  $\bar{\zeta} = 1/3$  ( $q = 0.89$ ). Values of  $\bar{\zeta}$  are also incorrectly quoted in the text following Eqs. (43). The quoted values should be  $\bar{\zeta} = 1, 2/3, 1/3$ .