ZnO nanorods for efficient third harmonic UV generation: erratum

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Abstract: We correct Eq. (1) of our previous paper showing the pulse duration (τ) dependence on group delay dispersion (β_2) and initial duration of the unchirped pulse coming from the laser (τ_0). The correct form of the equation was used in all the calculations in the previous paper however, so in all other respects our previous results and conclusions are unchanged.

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References and links

- S. K. Das, F. Guell, C. Gray, P. K. Das, R. Grunwald, and E. McGlynn, "ZnO nanorods for efficient third harmonic UV generation," Opt. Mater. Express 4(4), 701–709 (2014).
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In Eq. (1) of article [1], we gave an equation showing the dependence of pulse duration (τ) on group delay dispersion (β_2) and initial duration of the unchirped pulse coming from the laser (τ_0). There are typographical errors in this equation in article [1] and the corrected equation is given below in Eq. (1), as may be verified in a number of other sources (such as [2] and [3]):

$$\tau = \tau_0 \sqrt{1 + \left(4 \cdot \ln(2) \cdot \left(\frac{\beta_2}{\tau_0^2}\right)\right)^2}$$
(1)

The correct form of the equation was used in all the calculations in the previous paper [1] however, so in all other respects our previous results and conclusions are unchanged.