

Erratum to: Optical properties of uniformly sized silicon nanocrystals within a single silicon oxide layer

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The authors regret that during the publication of the above paper an error occurred about the effective-medium theory used to extract the optical responses of Si-NC (Section 3, Analysis of dielectric properties, paragraph 1). This corrected paragraph is reproduced below:

The composite silicon oxide layer, containing the Si-NC, is modeled by the Bruggeman effective-medium approximation (BEMA) theory and not

Maxwell–Garnett theory as mentioned in the original publication. BEMA law is formulated by this equation:

$$f_{\text{SiO}_2} \frac{\varepsilon_{\text{SiO}_2} - \varepsilon_{\text{eff}}}{\varepsilon_{\text{SiO}_2} + 2\varepsilon_{\text{eff}}} + f_{\text{Si-NC}} \frac{\varepsilon_{\text{Si-NC}} - \varepsilon_{\text{eff}}}{\varepsilon_{\text{Si-NC}} + 2\varepsilon_{\text{eff}}} = 0$$

where $f_{\text{Si-NC}}$ is the volume fraction of Si-NC, and $\varepsilon_{\text{SiO}_2}$, $\varepsilon_{\text{Si-NC}}$ and ε_{eff} are, respectively, the dielectric functions of silicon oxide, Si-NC and the effective medium (mixture between Si-NC and SiO_2).

The authors confirm that the changes mentioned in this erratum do not affect any part of the paper.

The online version of the original article can be found under doi:[10.1007/s11051-013-1538-0](https://doi.org/10.1007/s11051-013-1538-0).

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