Correction to "Quantitative metrics for assessing positional and orientational order in colloidal crystals"

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Equation 1 on page 8253 is incorrect and should read

$$\Psi_s = \left| \frac{1}{N} \left[\sum_{j=1}^{N} l_j e^{is\theta_j} \right] \Big/ \left[\sum_{j=1}^{N} l_j \right] \right|, \tag{1}$$

where Ψ_s is the length-weighted local bond order parameter (where s can be 4 or 6), N is the number of the nearest neighbors of each lattice point, l_j is the length of the side between the jth and $(j+1)th$ neighbor of the polygon formed by the nearest neighbors around each lattice point, and θ_j is the angle between a reference axis and the line connecting that lattice point to its jth nearest neighbor. This is the equation we used for all local bond order parameter calculations discussed in the manuscript, and therefore all of our Results and Conclusions are unaffected by this error.

We note that this length-weighting scheme was used by one of us in an earlier publication.[1] Furthermore, we thank Wenceslao González-Viñas (University of Navarra, Spain) for pointing out that this quantity is identical to the Minkowski structure metric.[2]

References

(1) Yethiraj, A.; Wouterse, A.; Groh, B.; van Blaaderen, A. Nature of an Electric-Field-Induced Colloidal Martensitic Transition. *Phys. Rev. Lett.* **2004**, *92(5)*, 058301(4).

(2) Mickel, W.; Kapfer, S. C.; Schröder-Turk, G. E.; Mecke, K. Shortcomings of the Bond Orientational Order Parameters for the Analysis of Disordered Particulate Matter. *J. Chem. Phys.* **2013**, *138*, 044501.