

Correction

Correction: Halun et al. Investigation of Ring and Star Polymers in Confined Geometries: Theory and Simulations. *Entropy* 2021, 23, 242

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The authors wish to make the following correction to this paper [1]. In our paper [1] are a few errors:

1. On page 8 symbol 'cc' before $\langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle$ in the Equation (19) should be removed and looks like:

$$\begin{aligned} \langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle &= \frac{(2R_g)^{1/\nu} \mathcal{IL} \int_0^L dz G(z, \tilde{z}) G(\tilde{z}, z)}{L_0 \mathcal{IL} \int_0^L dz G(z, z)} \\ &\approx 2 \frac{\tilde{z}^{1/\nu}}{L} \left(1 + \frac{\sqrt{\pi}}{2y} + \frac{\pi}{4y^2} + \frac{\pi^{3/2}}{8y^3} + O(e^{-4y^2}) \right) \end{aligned} \quad (19)$$



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4.0/).

2. On page 12 symbol 'cc' before $\langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle_l$ in the Equation (25) should be removed and looks like:

$$\begin{aligned} \langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle_l &= B \frac{\tilde{z}^{1/\nu}}{L} \left(1 + 8a\pi\tilde{R} \left(\operatorname{erfc} \left[\frac{a}{\sqrt{2}R_x} \right] - \frac{R_x}{a} \sqrt{\frac{2}{\pi}} e^{-\frac{a^2}{2R_x^2}} \right) \right. \\ &\quad \left. - 2 \left[\operatorname{erfc} \left[\frac{\sqrt{2}a}{R_x} \right] - \frac{R_x}{a\sqrt{2\pi}} e^{-\frac{2a^2}{R_x^2}} \right] \right) \end{aligned} \quad (25)$$

3. On page 16 symbol 'cc' before $\langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle_{st}$ in the Equation (44) should be removed and looks like:

$$\begin{aligned} \langle \rho_{\lambda}^{(DD)}(\tilde{z}) \rangle_{st} &= B \frac{\tilde{z}^{1/\nu}}{L} \left(1 - 2\sqrt{5\pi}\tilde{R}a \left[\left(\frac{61R_x}{7a} + \frac{1584}{175} \frac{a}{R_x} \right) e^{-\frac{4a^2}{5R_x^2}} \right. \right. \\ &\quad \left. \left. - \left(\frac{155R_x}{7a} + \frac{10,272}{175} \frac{a}{R_x} \right) e^{-\frac{16a^2}{5R_x^2}} \right] \right) \end{aligned} \quad (44)$$

4. On page 21 Appendix B symbol 'cccc' before $\tilde{G}_{\parallel}(\mathbf{p}; z, z'; \mu_0, c_{10}, c_{20}, L)$ in the Equation (A5) should be removed and looks like:

$$\begin{aligned}
\tilde{G}_{\parallel}(\mathbf{p}; z, z'; \mu_0, c_{1_0}, c_{2_0}, L) = & \frac{1}{2\kappa_0} ((\kappa_0^2 + \kappa_0(c_{1_0} + c_{2_0}) + c_{1_0}c_{2_0})e^{\kappa_0 L} \\
& - (\kappa_0^2 - \kappa_0(c_{1_0} + c_{2_0}) + c_{1_0}c_{2_0})e^{-\kappa_0 L})^{-1} \\
& ((\kappa_0^2 + \kappa_0(c_{1_0} + c_{2_0}) + c_{1_0}c_{2_0})e^{\kappa_0(L-|z-z'|)}) \\
& + (\kappa_0^2 - \kappa_0(c_{1_0} + c_{2_0}) + c_{1_0}c_{2_0})e^{-\kappa_0(L-|z-z'|)}) \\
& + (\kappa_0^2 + \kappa_0(c_{2_0} - c_{1_0}) - c_{1_0}c_{2_0})e^{\kappa_0(L-z-z')} \\
& + (\kappa_0^2 - \kappa_0(c_{2_0} - c_{1_0}) - c_{1_0}c_{2_0})e^{-\kappa_0(L-z-z')}
\end{aligned} \quad (A5)$$

5. On page 22 Appendix C symbol ‘cc’ before $\langle \rho_{\lambda}^{(DN)}(\tilde{z}) \rangle$ in the Equation (A8) should be removed and looks like:

$$\begin{aligned}
\langle \rho_{\lambda}^{(DN)}(\tilde{z}) \rangle = & \frac{(2R_g)^{1/\nu}}{L_0} \frac{\mathcal{IL} \int_0^L dz G(;z, \tilde{z}) G(; \tilde{z}, z)}{\mathcal{IL} \int_0^L dz G(;z, z)} \\
\approx & 2 \frac{\tilde{z}^{1/\nu}}{L} + \frac{\tilde{z}}{y^2} \frac{(e^{-4y^2} - e^{-16y^2})}{(1 - 2e^{-4y^2} + 2e^{-16y^2})}
\end{aligned} \quad (A8)$$

The changes do not influence substantive meaning and the obtained scientific results. The original article has been updated.

Reference

- Halun, J.; Karbowiczek, P.; Kuterba, P.; Danel, Z. Investigation of ring and star polymers in confined geometries: Theory and simulations. *Entropy* **2021**, *23*, 242. [[CrossRef](#)] [[PubMed](#)]