Soft Matter



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CORRECTION

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Correction: Cellulose regeneration and spinnability from ionic liquids

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Correction for 'Cellulose regeneration and spinnability from ionic liquids' by Lauri K. J. Hauru *et al.*, *Soft Matter*, 2016, **12**, 1487–1495.

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For the spinning system, the manufacturer's software reported an incorrect extrusion flow rate v_e (ml min⁻¹) when using the smaller cylinder. Thus, the error only affects [DBNH]OAc and [TMGH]OAc; NMMO and [emim]OAc data remains intact. The correct values for v_e may be obtained by multiplying the reported v_e with 1/0.6. As D_R is determined from v_e , it is also affected: to obtain correct D_R , multiply the reported D_R with 0.6. The extrusion velocities (v_e) and draw ratios (D_R) reported for [DBNH]OAc and [TMGH]OAc in the main text are modified as follows:

| $\nu_{\rm e} [{\rm ml}{\rm min}^{-1}]$ | | $D_{ m R}$ | | |
|--|---------|------------|---------|--|
| Reported | Correct | Reported | Correct | |
| 0.02 | 0.033 | 1.0 | 0.6 | |
| 0.02 0.04 | 0.067 | 2.0 | 1.2 | |
| | | 7.5 | 4.5 | |
| | | 12.5 | 7.5 | |

In the section "Practical spinning", the sentence beginning "Spinnability was good..." should be modified as follows: "Spinnability was good for [DBNH]OAc (up to D_R **4.5**), but poor for [TMGH]OAc (only D_R **1.2**)." The corrected Table 2 is as follows:

| Table 2 | Highest | draw | ratios | obtained | in | spinning | experiments |
|---------|---------|------|--------|----------|----|----------|-------------|
|---------|---------|------|--------|----------|----|----------|-------------|

| Spinning solvent | <i>d</i> ₀ [μm] | $T_{\rm extr} [^{\circ} C]$ | $T_{ m bath} \left[^{\circ} m C ight]$ | D _{Rmax} | Titer [dtex] | Tenacity [cN tex ⁻¹] |
|-----------------------|----------------------------|-----------------------------|--|-------------------|----------------|----------------------------------|
| [DBNH]OAc | 100 | 70 | 15 | <u>4.5</u> | 3.0 ± 0.9 | 38.5 ± 8.4 |
| NMMO·H ₂ O | 100 | 95 | 15 | 6.2 | 3.7 ± 0.7 | 31.2 ± 6.6 |
| [TMGH]OAc | 100 | 80 | 15 | <u>1.2</u> | 15.5 ± 0.9 | 10.9 ± 1.1 |
| [emim]OAc | 250 | 90 | 45 | 2.9 | 44.4 ± 1.7 | 13.9 ± 1.6 |

 d_0 , spinneret diameter; T_{extr} , extrusion temperature; T_{bath} , regeneration bath temperature; D_{Rmax} , highest draw ratio spun.

Modified Fig. 8 and 9 are as follows:

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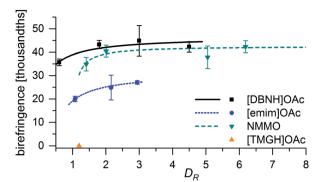


Fig. 8 Final fiber birefringence vs. draw ratio in spinning.

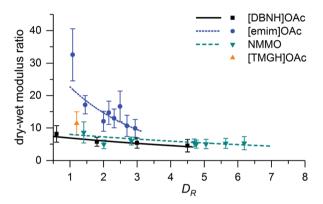


Fig. 9 Dry to wet modulus ratio of final fibers vs. draw ratio in spinning.

The conclusions remain intact. The lower draw ratio exhibited by [TMGH]OAc solutions (1.2 instead of 2.0) actually adds credence to the stated conclusions about [TMGH]OAc. For [DBNH]OAc, the lower draw ratio is not an issue, since it is known from the outset that a monofilament system is suboptimal and better results can be obtained with a multifilament system.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.