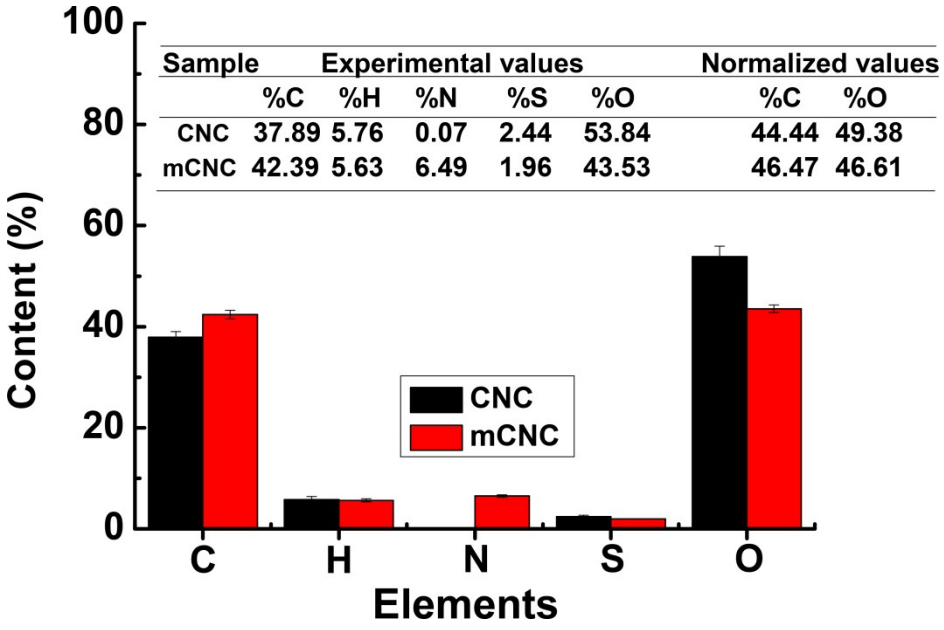
Fig. S1. Elemental weight composition for pristine CNC and grafted CNC.

Fig. S2. X-Ray diffraction patterns of pristine CNC and mCNC.

Fig. S3. GPC traces of PLA grades with Y-axises (*left*: d(wt)/d(log Mw), *right*: cumulative (%)), and X-axis (Slice Log Mw).

Fig. S4. Effects of CNCs and mCNCs on tensile properties (a: strength, and b: elongation modulus) of amorphous PLA nanocomposites[35].



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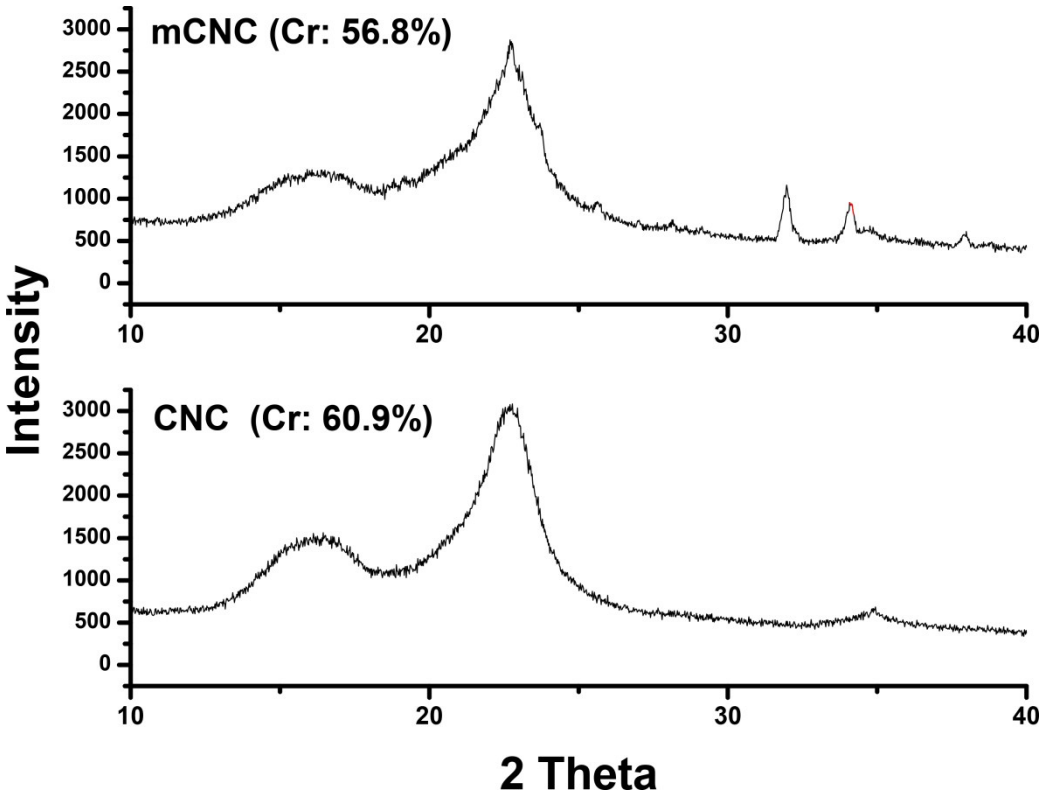


Fig. S2 X-Ray diffraction patterns of pristine CNC and mCNC.

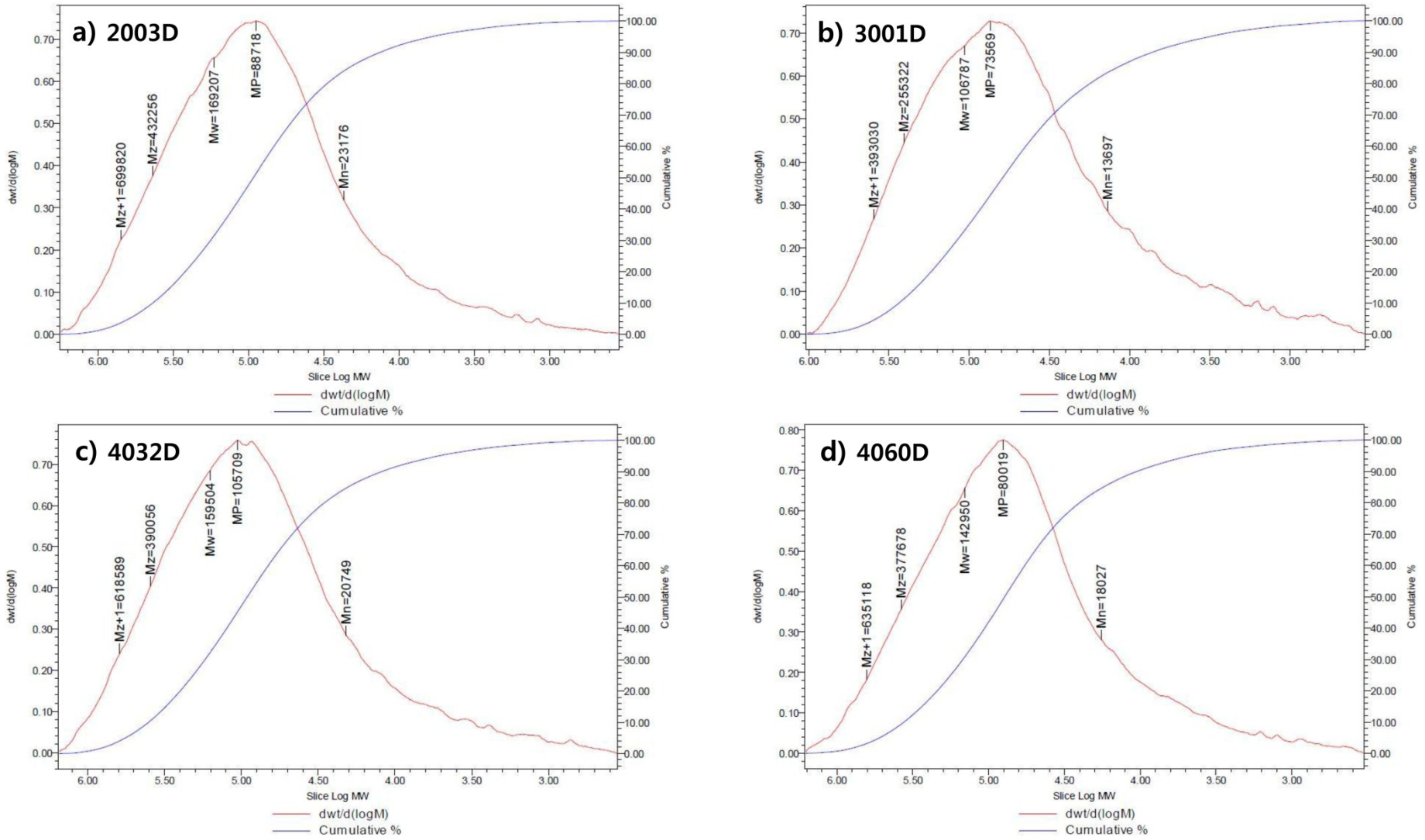
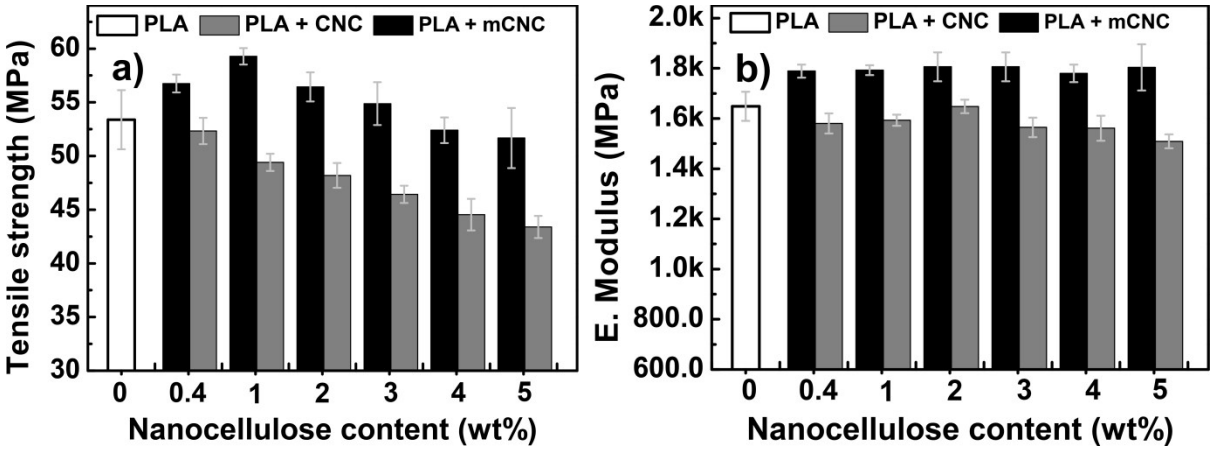


Fig. S3 GPC traces of PLA grades with Y-axises (*left*: d(wt)/d(log Mw), *right*: cumulative (%)), and X-axis (Slice Log Mw).



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