# Supplementary info

***SI.1. Two common TEMPO processes.***

Common TEMPO oxidation processes for cellulose fibrils fabrication as reviewed in detail by Isogai et. al. [A]**.** Figure S. 1 showsTEMPO/NaBr/NaClO oxidation in water at pH 10–11and Figure S. 2showsTEMPO/NaClO/NaClO2 oxidation in water at pH 4.8–6.8**.**

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| Figure S. . TEMPO/NaBr/NaClO oxidation in water at pH 10–11 |

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| Figure S. . TEMPO/NaClO/NaClO2 oxidation in water at pH 4.8–6.8 |

**Reference**

[A] Isogai, A., T. Saito, and H. Fukuzumi, TEMPO-oxidized cellulose nanofibers. Nanoscale, 2011. 3(1): p. 71-85.