Supplementary Materials

Poly(lactic acid) and nanocrystalline cellulose methacrylated particles for preparation of 3D printed hydrogel scaffolds for tissue engineering

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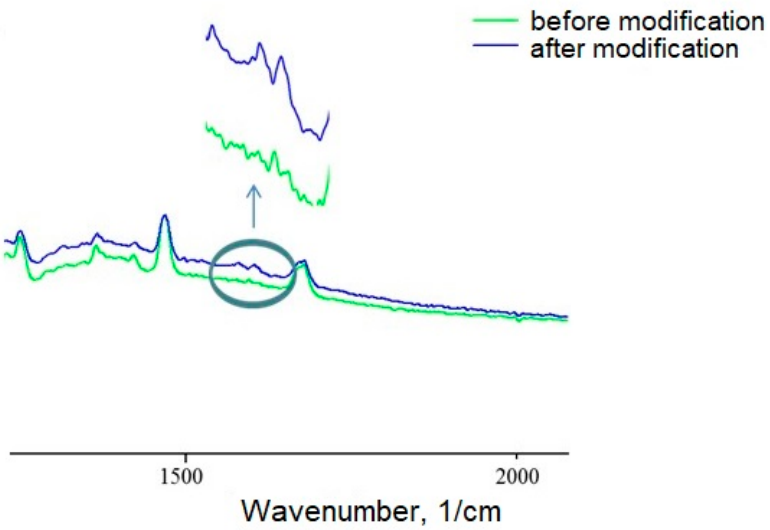

Figure S1. Raman spectrum of PLA (green line) and PLA-MA (blue line). Raman spectra were recorded with T64000 Horiba Scientific spectrometer (Kyoto, Japan).

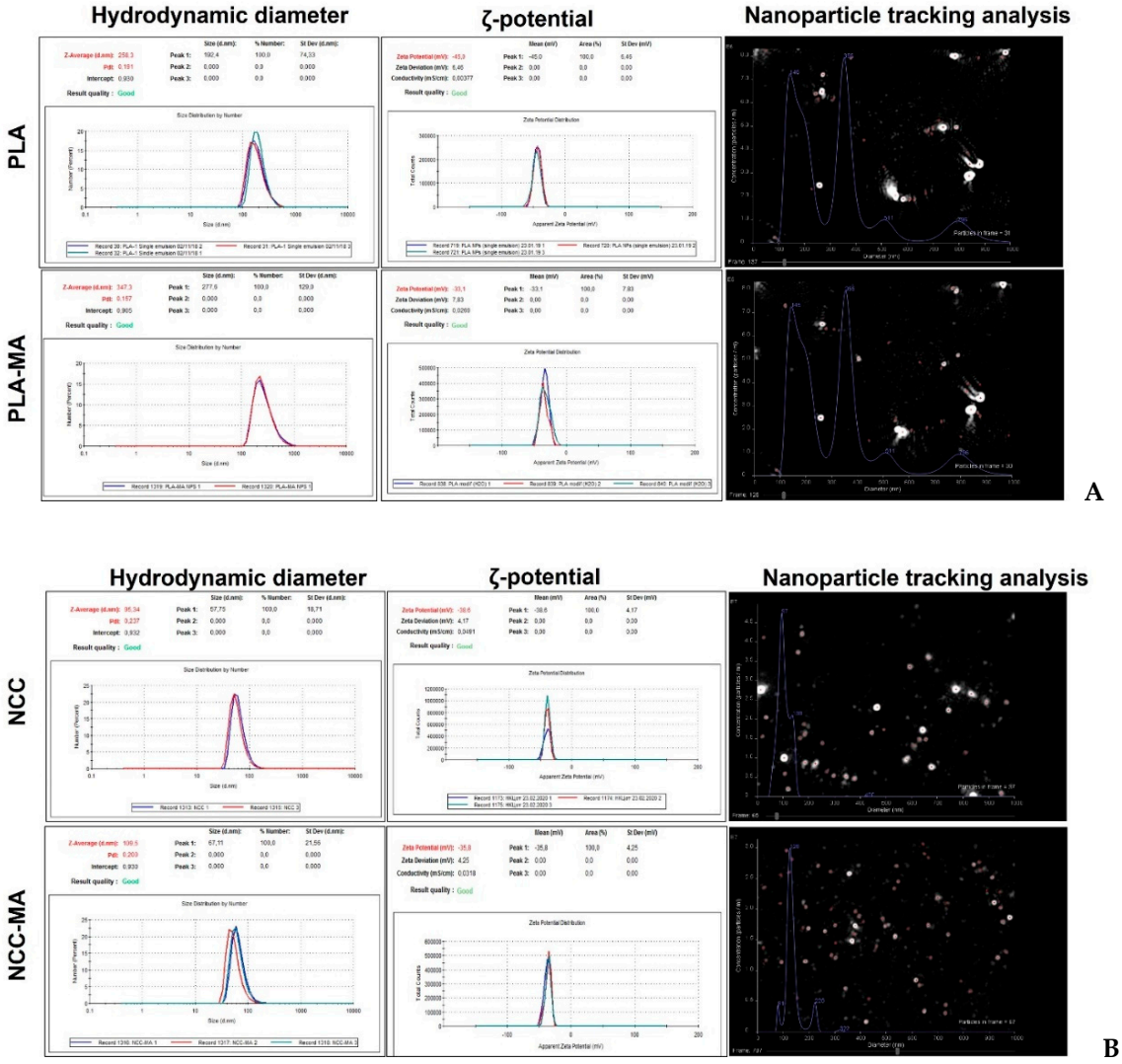

Figure S2. Non-methacrylated and methacrylated particles characteristics: (A) – PLA and PLA-MA; (B) – NCC and NCC-MA.

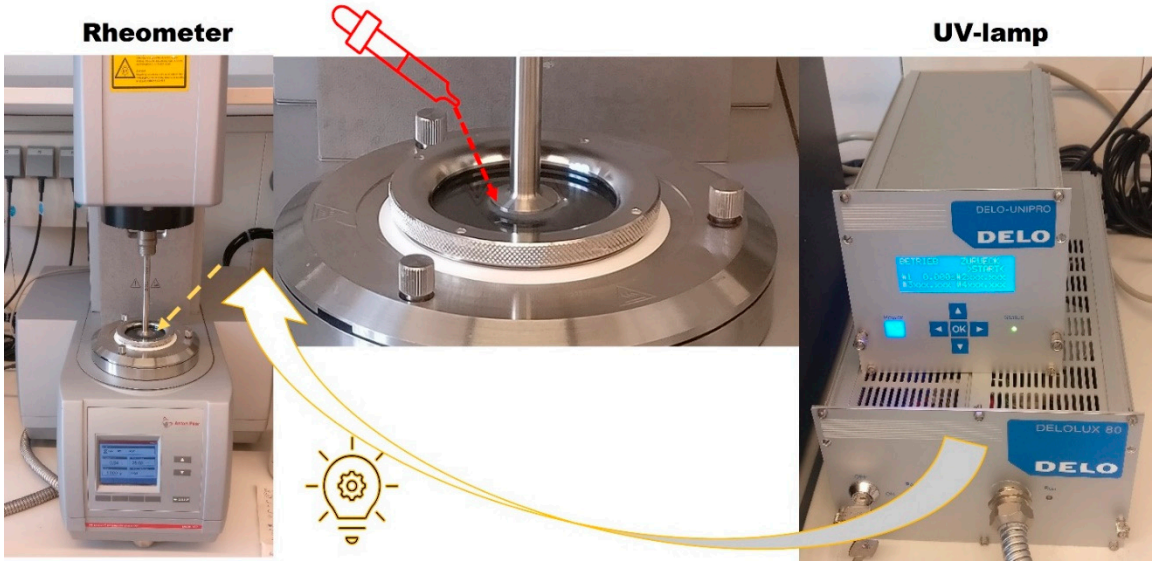

Figure S3. The scheme of rheological experiment, which was applied for testing of interparticle cross-linking.

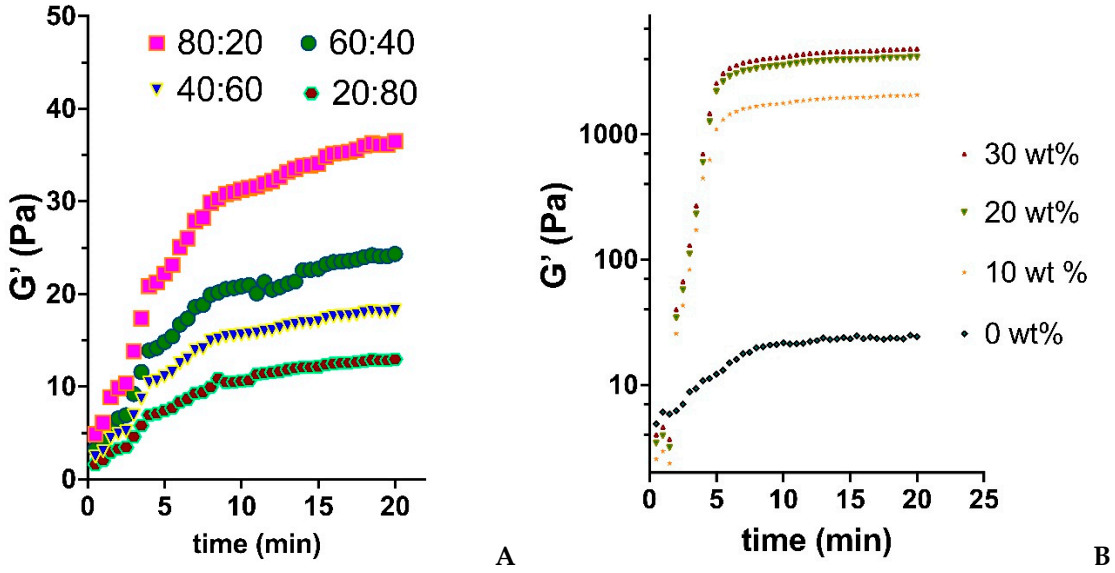

Figure S4. Results of rheological experiment: effect of PLA-MA and NCC-MA weight ratios (A) and Gel-MA concentration (B) on storage modulus increase during 10 min of exposure to UV-light and thereafter.

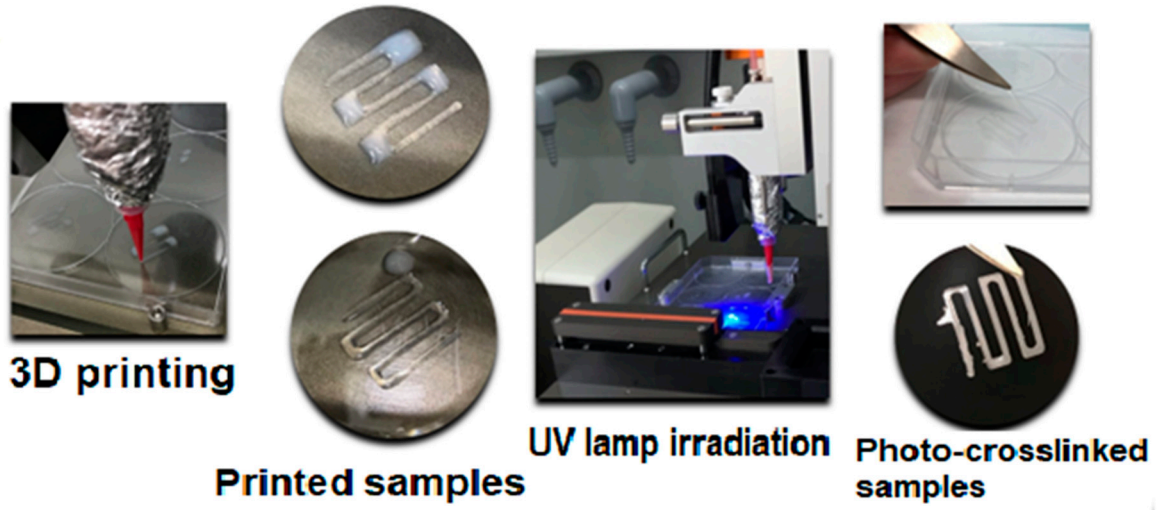

Figure S5. The scheme of 3D printing with application of particles as photo-curable ink.