S1. UV/vis absorption spectra of ligand 1 with 1 equiv AgBF₄ after 2 and 4 weeks on the open bench.
**S2.** EDX analysis of a sample of nanocrystals of ligand 1 with 2 equiv AgBF₄ confirming the presence of silver as well as carbon, nitrogen and oxygen in the fibres. The copper peaks stem from the analytical grid.
S3. Viscous modulus ($G''$) of gels of ligand 1 with varying concentrations of AgBF$_4$. 
S4. Development of $G'$, $G''$ and oscillation stress with strain for fresh and aged (1 week stored in the dark and 24 h under UV light) samples of ligand 1 with 1.5 equiv AgBF$_4$. 
S5. Development of $G'$, $G''$ and oscillation stress with strain for fresh and aged (1 week stored in the dark and 24 h under UV light) samples of ligand 1 with 2.0 equiv AgBF$_4$. 
**S6.** Development of $G'$, $G''$ and oscillation stress with strain for fresh and aged (1 week stored in the dark and 24 h under UV light) samples of ligand 1 with 3.0 equiv AgBF$_4$.

**S7.** SEM images of gel samples after 24 h under UV with (from left to right) 1.5, 2.0, and 3.0 equiv AgBF$_4$. Note how samples at higher silver concentrations show large particles encased in gel fibers.