Novel one-pot synthesis and sensitisation of new BiOCl-Bi$_2$S$_3$ nanostructures from DES medium displaying high photocatalytic activity

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Figure S1. Picture of samples B (1:1), F (SS/50) and pure BiOCl.

Figure S2. TEM images of sample G (DC/50).
Figure S3. XRD patterns of samples K and L prepared from dry chemicals in the proportion: (1:2) and (1:4), respectively, and comparison with pure BiOCl.

Figure S4 – TEM images of samples F(SS/50), K (1:2) and L (1:4).

Figure S5 – TEM images of nanoBi$_2$S$_3$, pure BiOCl and BiOCl/Bi$_2$S$_3$ prepared in H$_2$O.
Figure S6. XRD patterns of samples B and F, before (B (1:1) and F (SS/50)) and after (B' (1:1)/RhB and F' (SS/50)/RhB) degradation of RhB under UV-visible light.