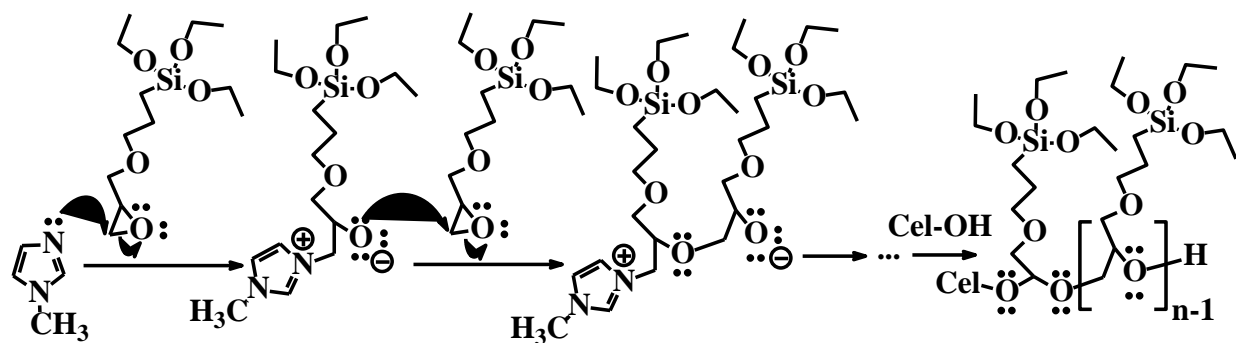


# **Cellulose Fabrics Functionalized with Sol-Gel Photocatalytic Coatings Based on Iron (III) Phthalocyanine Tetracarboxylic Acids-TiO<sub>2</sub>-Silica Hybrids**

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**Scheme S1.** Mechanism of GLYMO homopolymerization catalyzed by MIM

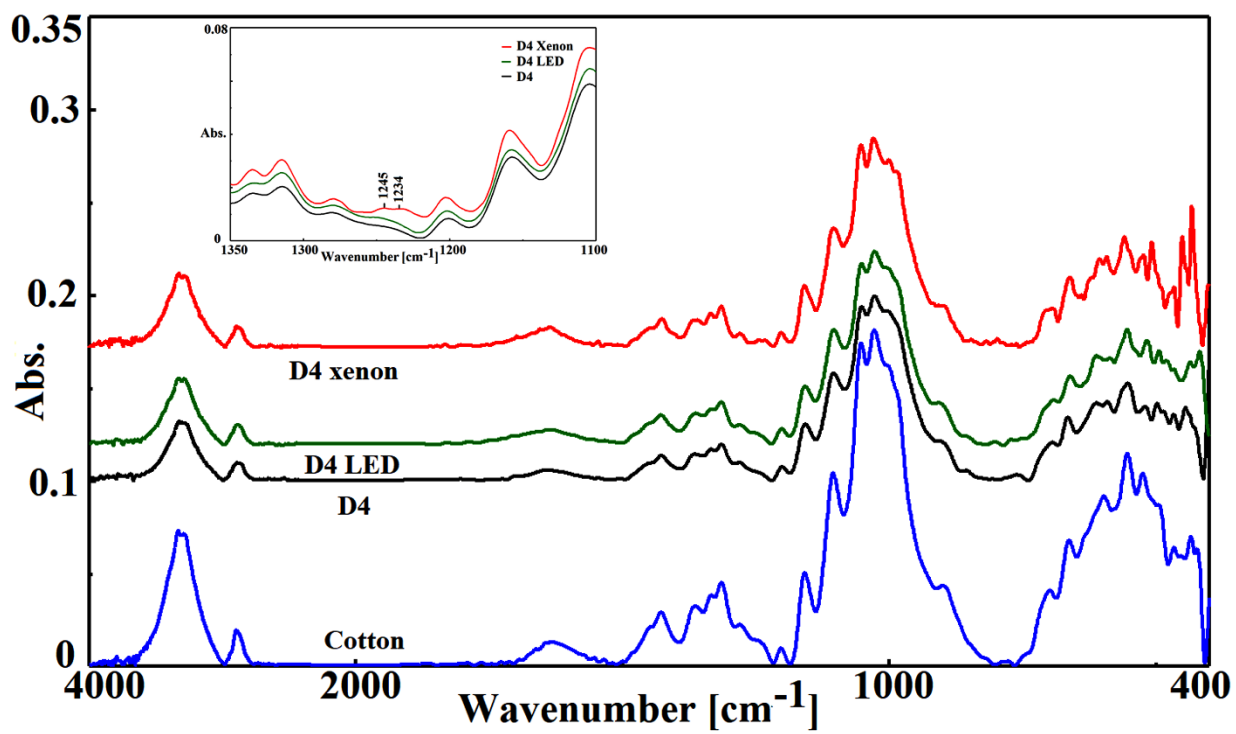


Figure S1. FTIR spectra of D4 exposed to light

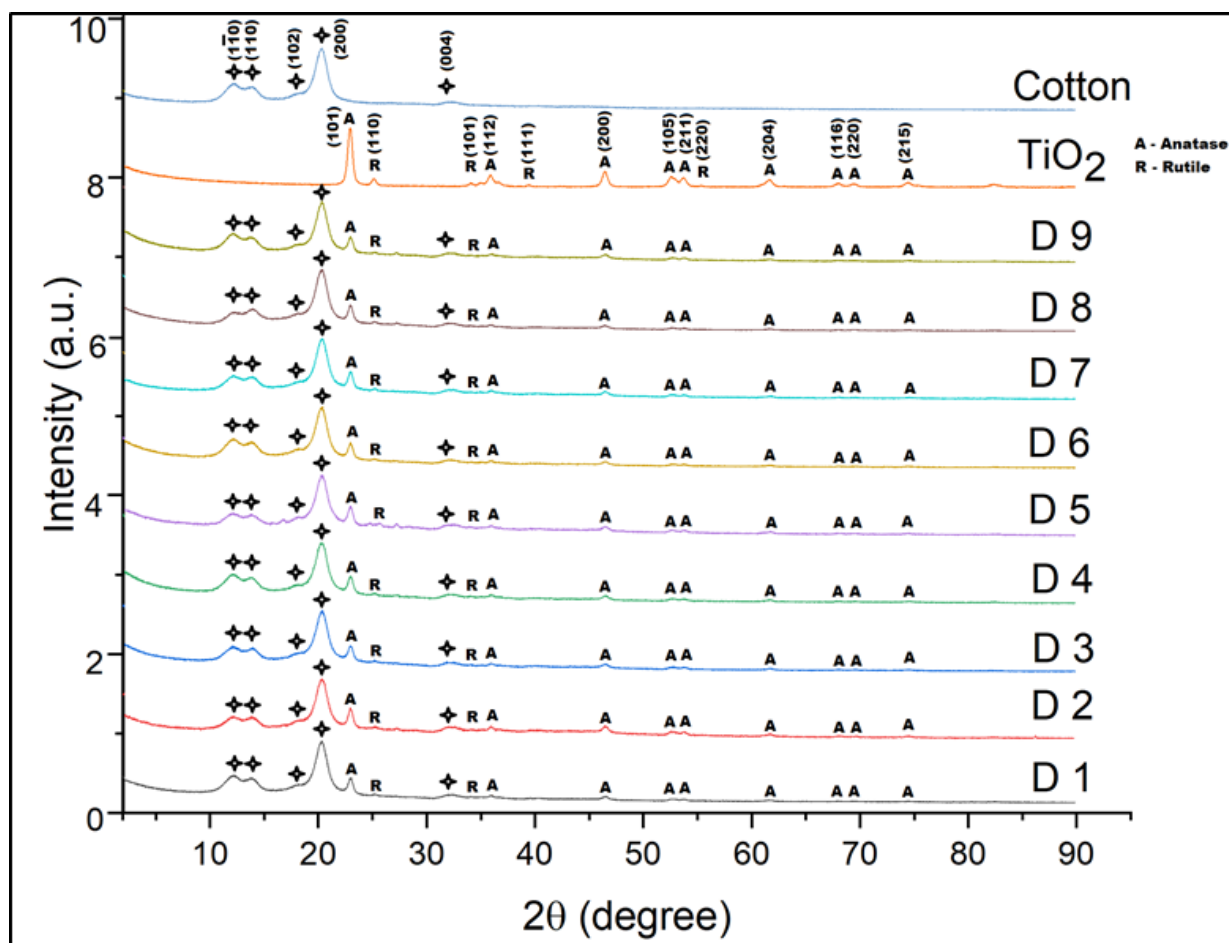
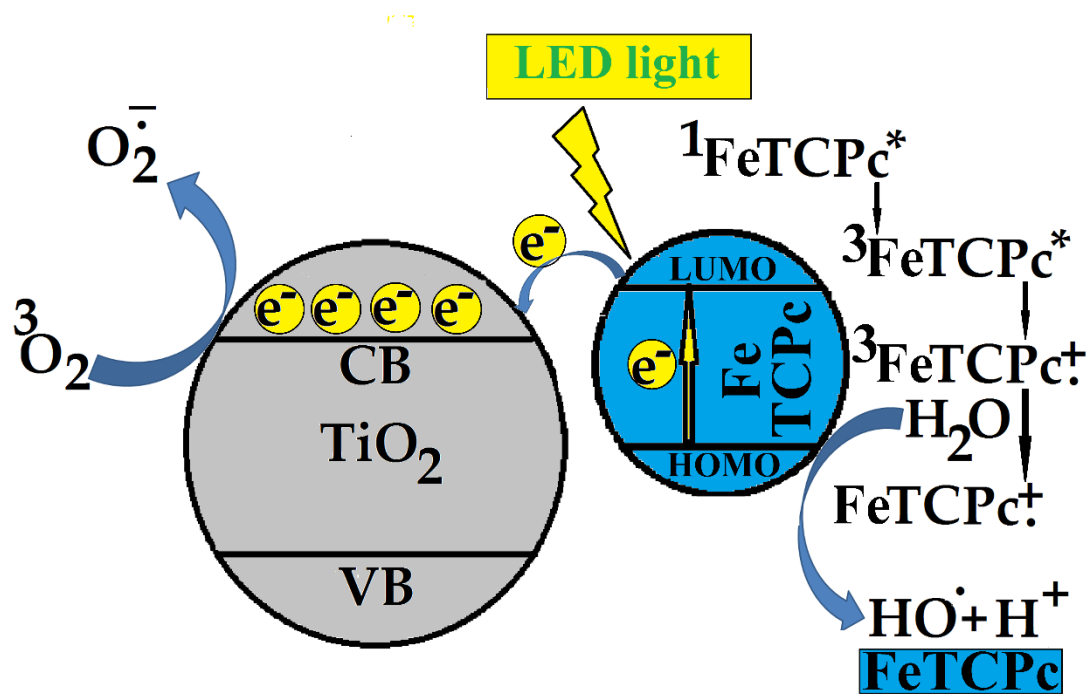


Figure S2. X-ray diffraction pattern of all coated fabrics



**Figure S3.** Mechanism of charge and reactive species generation under LED light illumination