

Supporting Information

A floating photocatalytic fabric integrated with AgI/UiO-66-
NH₂ heterojunction as a facile strategy of wastewater treatment

Jaeseon Yoo,[†] Jinwook Lee,[†] and Jooyoun Kim^{, †, §}*

[†]Department of Fashion and Textiles, Seoul National University, Seoul 08826, Republic of Korea

[§]Research Institute of Human Ecology, Seoul National University, Seoul 08826, Republic of Korea

* Correspondence to: jkim256@snu.ac.kr

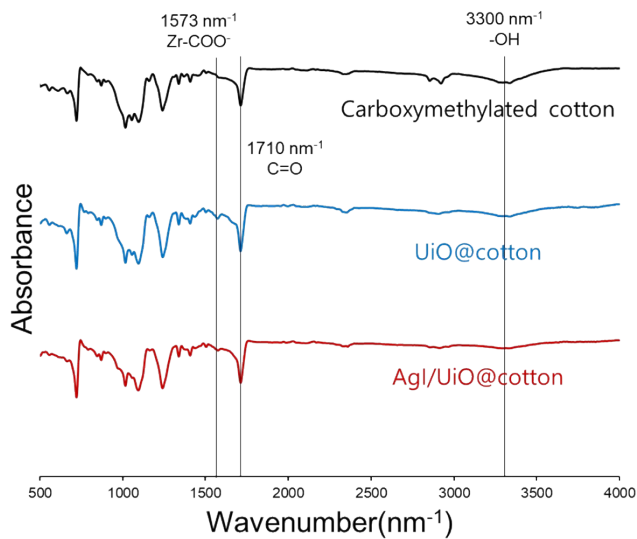


Fig. S1 Fourier-Transform Infrared spectroscopy (FT-IR) analysis of carboxymethylated cotton, UiO@ cotton and AgI/UiO@ cotton.

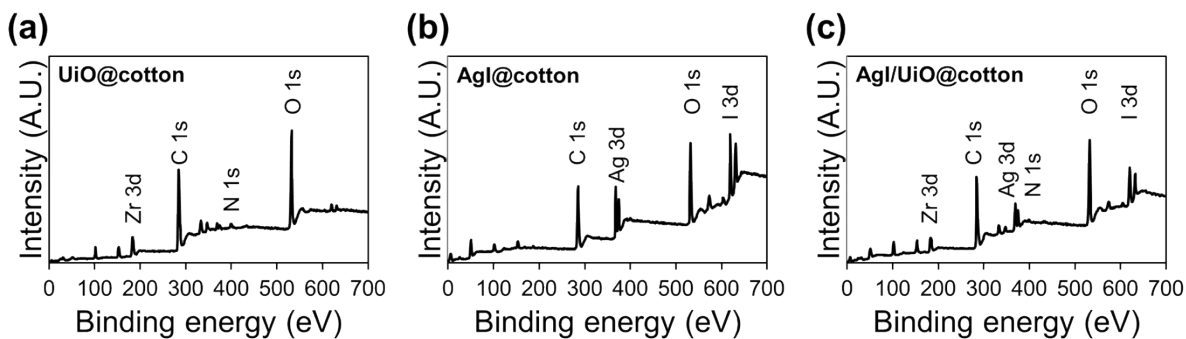


Fig. S2 Wide scan XPS spectra of (a) UiO@ cotton, (b) AgI@ cotton, and (c) AgI/UiO@ cotton.

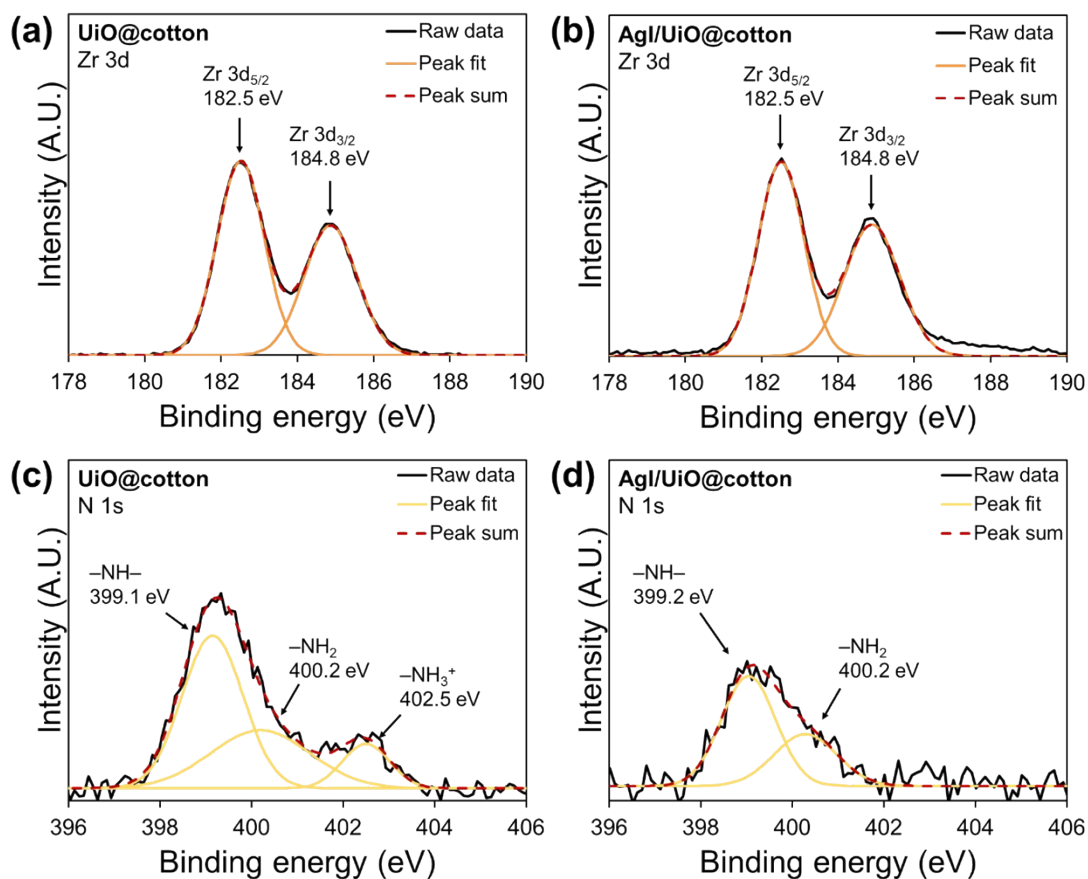


Fig. S3 High resolution XPS spectra of (a) Zr 3d of UiO@cotton, (b) Zr 3d of AgI/UiO@cotton, (c) N 1s of UiO@cotton and (d) N 1s of AgI/UiO@cotton.

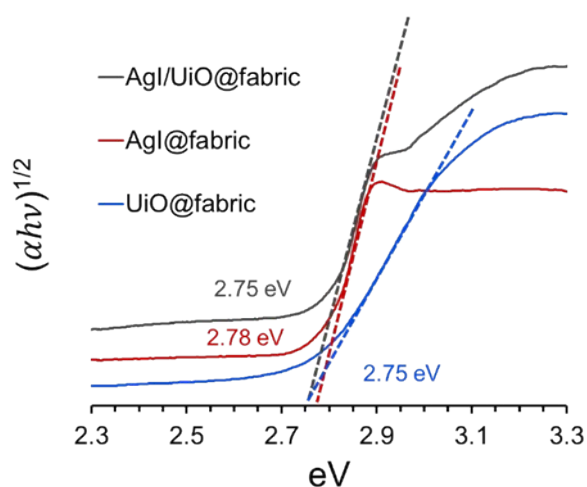


Fig. S4 Band gap energy (E_g) estimation by Kubelka-Munk equation from DRS spectra.

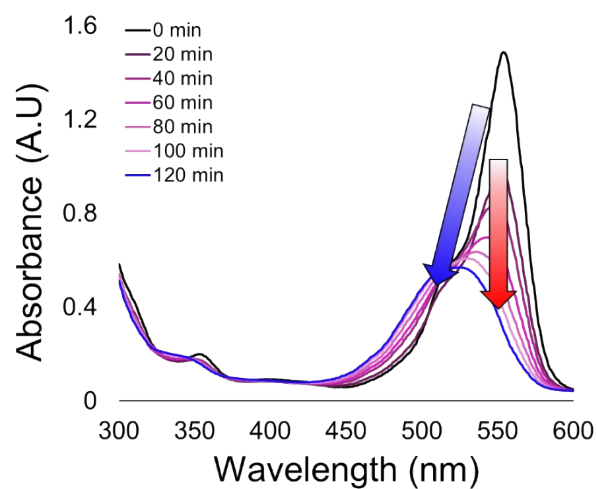


Fig. S5 Changes of UV-vis absorbance of Rhodamine B with AgI@fabric.

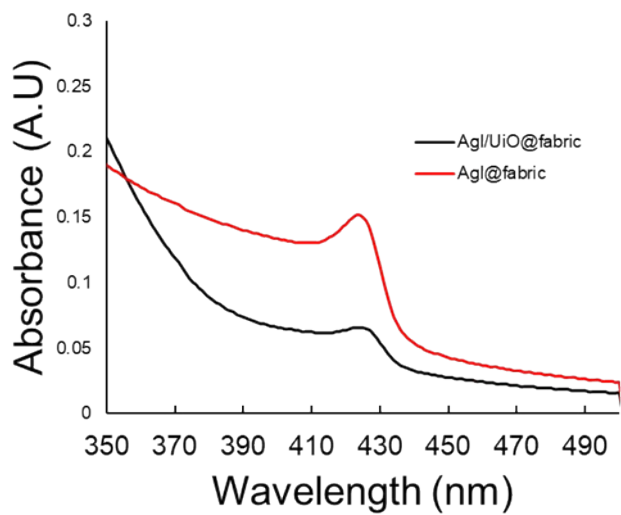


Fig. S6 UV-vis absorbance spectra of distilled water after 2 hr of irradiation with AgI@fabric and AgI/UiO@fabric