Table S1 Comparison of photothermal evaporation and photodegradation MB for hydrogel.

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| Hydrogel | Photothermal evaporation rate (kg m−2 h−1) | Photodegradation | | | Reference |
| Irradiation time (min) | Concentration | Efficiency |
| 2D/2D rGO/PPy (c-GPP) | 1.59 | 120 | 10 mg/L | 89.2% | [42] |
| ANF/MoS2@MXene | 1.42 | 60 | / | ＞97% | [43] |
| CuS@MIL-100 cellulose | 2.73 | 120 | 40 mL, 10 mg/L | 97.3% | [44] |
| Soft artificial seagrass | / | 150 | 18 mL | Nearly 100% | [45] |
| Hemin-function graphene | / | 180 | 80 mL, 50 mg/L | 95% | [46] |
| TiO2-loaded | / | 360 | 4 mg/L | ＞95% | [47] |
| TiO2/g-C3N4/SWCNT | 1.43 | 120 | 60 mL, 10 mg/L | ＞90% | This work |