

Supporting Information

1. BET data

| Samples | S _{BET} (m ² g ⁻¹) | Pore volume(cm ³ /g) | Pore size(nm) |
|--------------------------------|--|---------------------------------|---------------|
| Pure TiO ₂ | 29.9168±0.1264 | 0.072445 | 9.64239 |
| Porous TiO ₂ | 39.4776±0.1735 | 0.094703 | 10.43119 |
| Porous Ag/TiO ₂ | 32.2148±0.1633 | 0.084614 | 10.23211 |
| Porous PDA-Ag/TiO ₂ | 35.4392±0.1748 | 0.090017 | 10.33874 |

2. The original data of the MO degradation (the absorbance of the reaction solution analyzed with a UV-vis-NIR scanning spectrophotometer at 554 nm).

| Catalyst Time(min) | Without catalyst | Pure TiO ₂ | Porous TiO ₂ | Porous Ag/TiO ₂ | Porous PDA- Ag/TiO ₂ |
|-----------------------|---------------------|--------------------------|----------------------------|-------------------------------|------------------------------------|
| -30 | 1.498 | 1.498 | 1.498 | 1.498 | 1.498 |
| 0 | 1.498 | 1.467 | 1.363 | 1.393 | 1.183 |
| 10 | 1.497 | 1.197 | 1.077 | 0.915 | 0.491 |
| 20 | 1.492 | 0.881 | 0.725 | 0.500 | 0.211 |
| 30 | 1.486 | 0.713 | 0.433 | 0.276 | 0.163 |
| 40 | 1.482 | 0.560 | 0.247 | 0.166 | 0.129 |
| 50 | 1.479 | 0.431 | 0.171 | 0.148 | 0.103 |
| 60 | 1.476 | 0.298 | 0.141 | 0.129 | 0.082 |