Supporting Information

**Soluble Polyfluorene Dots as Photocatalyst for Light-Driven Methylene Blue Degradation and Hydrogen Generation**

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**Fig. S1.** The photographs of (a) pure PFO and (b) PFO Pdots in water.

**Fig. S2.** UV-Vis absorption spectra of (a) pure MB and (b) MB with PFO-Pdots in dark.
**Fig. S3.** UV-Vis absorption spectra of (a) MB and PFO and (b) MB and PFO-Pdots under illumination of a continuous simulated solar light.

**Table S1.** Hydrogen production peak areas of pure PFO and PFO-Pdots in water.

<table>
<thead>
<tr>
<th>Peak area</th>
<th>0 h</th>
<th>1 h</th>
<th>2 h</th>
<th>3 h</th>
<th>4 h</th>
<th>5 h</th>
<th>6 h</th>
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<tbody>
<tr>
<td>Pure PFO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.2238</td>
<td>0.2548</td>
<td>0.2573</td>
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<td>PFO Pdots</td>
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<td>1.1526</td>
<td>2.2575</td>
<td>4.4904</td>
<td>6.4011</td>
<td>8.2659</td>
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