

Supporting Information

Anthracene-Based Indium Metal-Organic Framework as Promising Photosensitizer for Visible-Light-Induced Atom Transfer Radical Polymerization

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Table S1. Crystal data and structure refinement of NNU-32.

empirical formula	C ₃₄ H ₁₄ InO ₈
formula weight	665.27
crystal system	Tetragonal
space group	<i>P4₂/mmc</i>
<i>a</i> / Å	9.9523(7)
<i>c</i> / Å	36.798(3)
<i>V</i> / Å ³	3644.8(5)
<i>Z</i>	2
F(000)	662.0
θ range collected	2.05 to 23.26
limiting indices	$-11 \leq h \leq 11, -9 \leq k \leq 11, -40 \leq l \leq 40$
Reflections collected / unique	17219 / 1517
data / restraints / parameters	1517 / 104 / 80
<i>R</i> (int)	0.0746
goodness-of-fit on <i>F</i> ²	0.963
Final <i>R</i> indices ($[I > 2\sigma(I)]$)	<i>R</i> ₁ = 0.0413, <i>wR</i> ₂ = 0.1038
<i>R</i> indices (all data)	<i>R</i> ₁ = 0.0756, <i>wR</i> ₂ = 0.1151

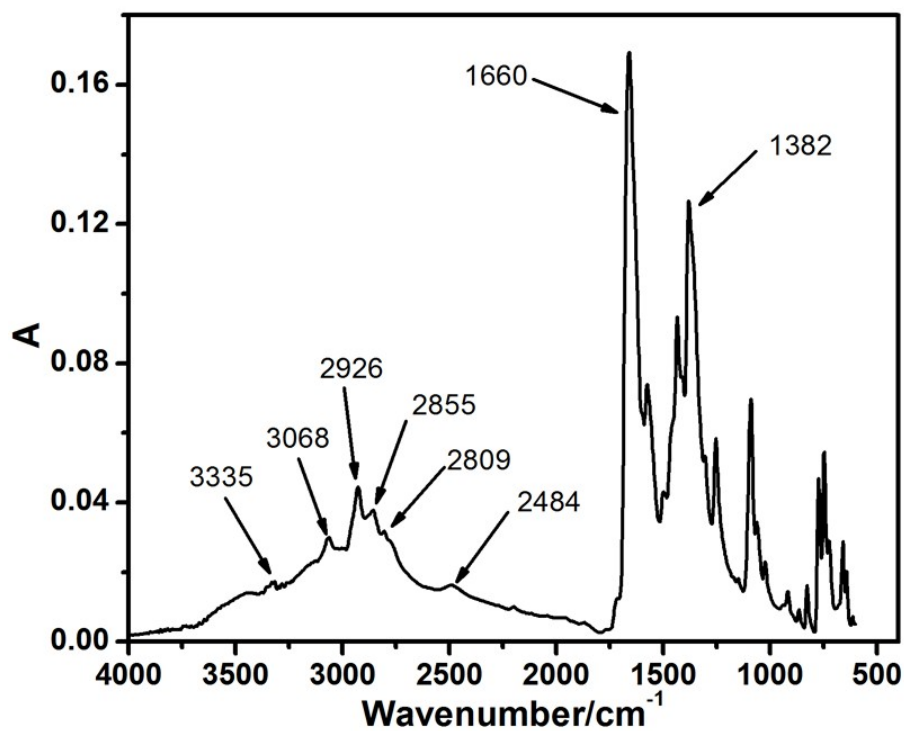


Figure S1. The FTIR spectrum of NNU-32.

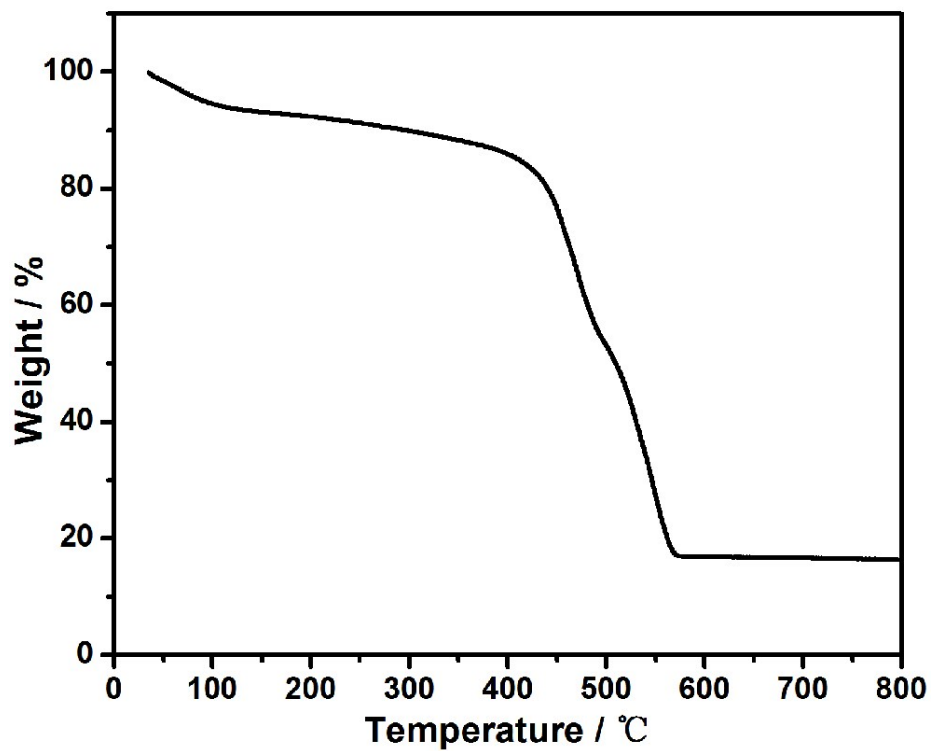


Figure S2. The TG curve of NNU-32.

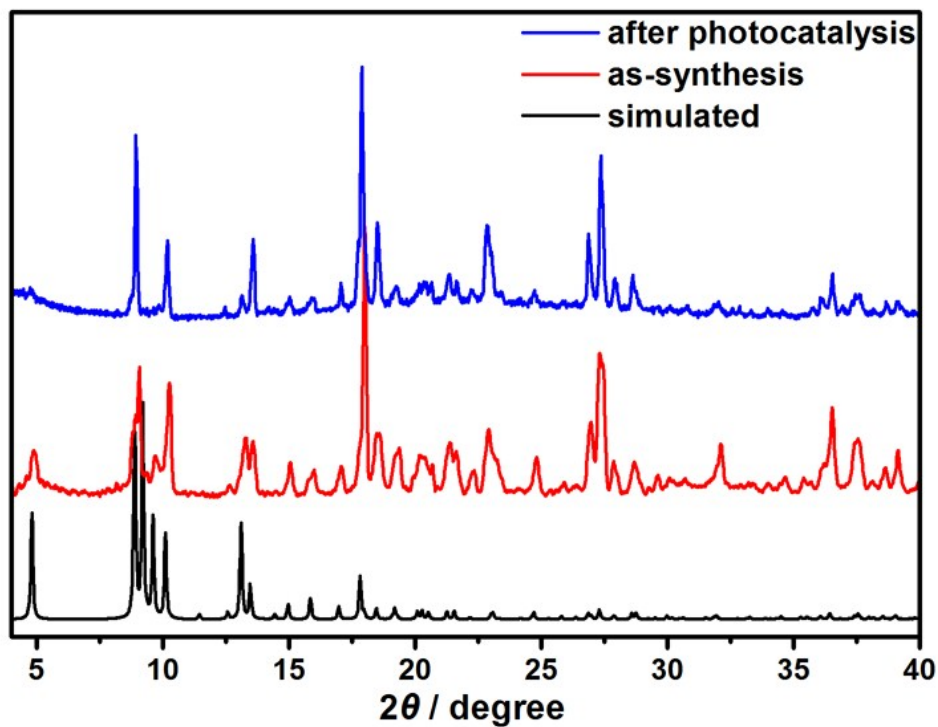


Figure S3. The PXR D patterns of NNU-32 under different conditions.

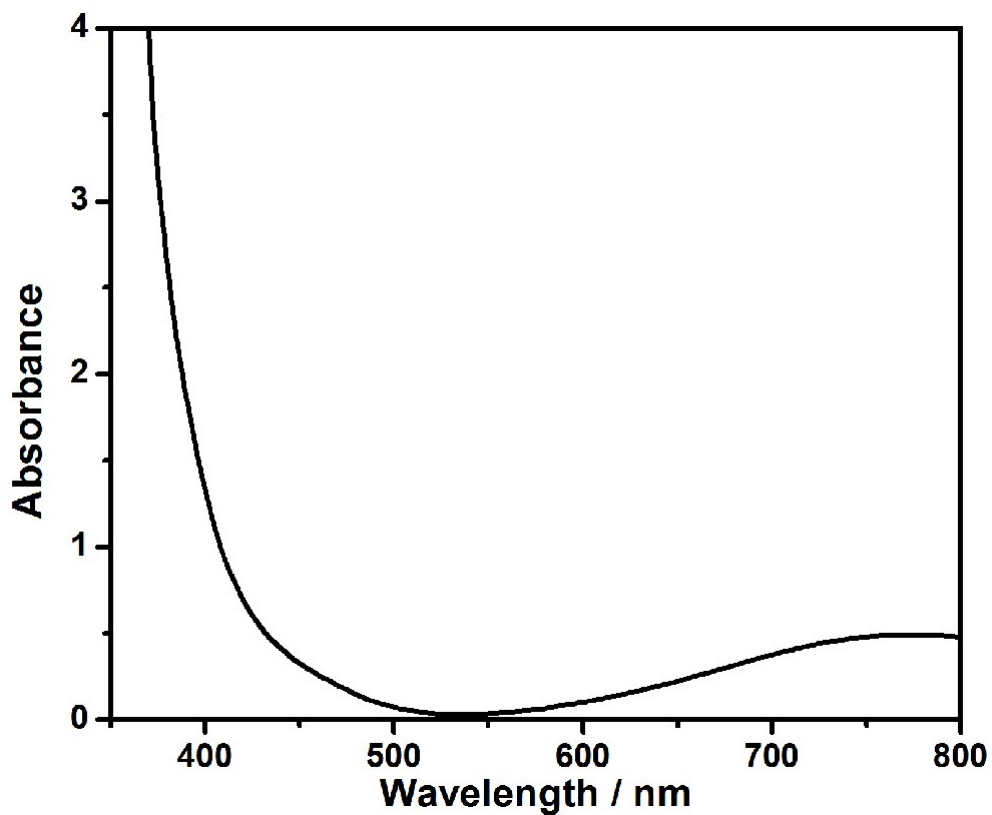


Figure S4. The UV-Vis spectrum of reaction mixtures without NNU-32.

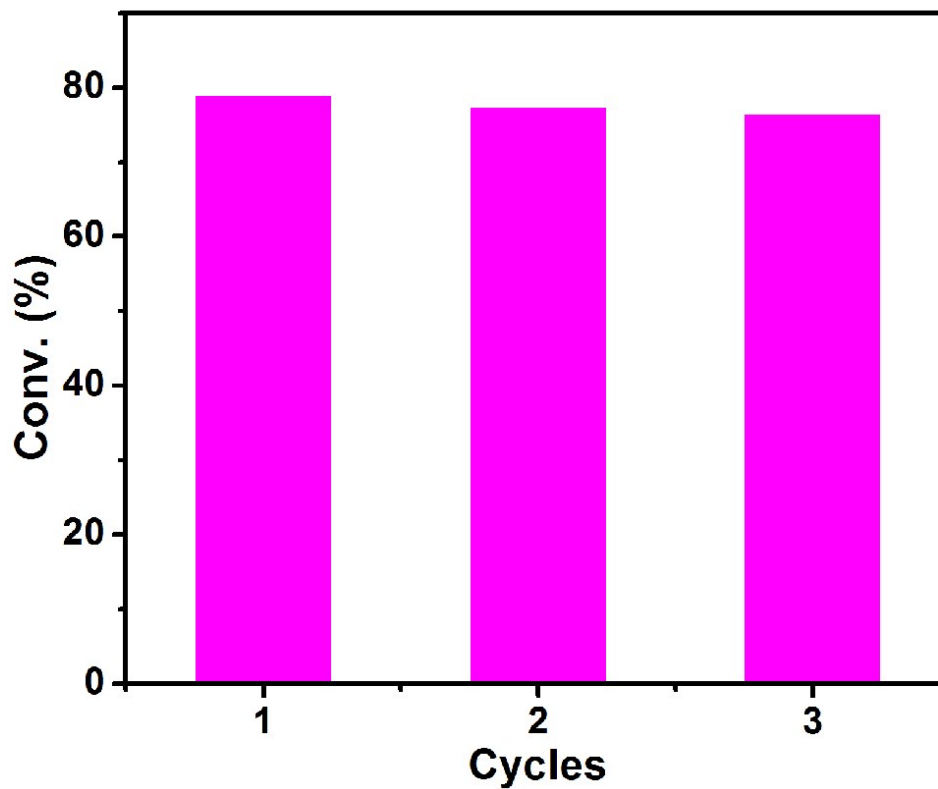


Figure S5. The reuse of NNU-32 to initiate the photoinduced polymerization of *i*-BMA. [*i*-BMA]₀/[EBiB]₀/[CuBr₂]₀/[PMDETA]₀ = 135/1/0.2/0.6 in 2 mL acetonitrile, NNU-32 = 20 mg, irradiation time = 10 h.