



Supporting Information

for

Exfoliated black phosphorous-mediated CuAAC chemistry for organic and macromolecular synthesis under white LED and near-IR irradiation

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Characterisation data: ^1H NMR spectra of Alk-1, Alk-2 and Alk-3, TEM, HAADF-STEM and associated EDS elemental mapping of PS-*b*-PCL

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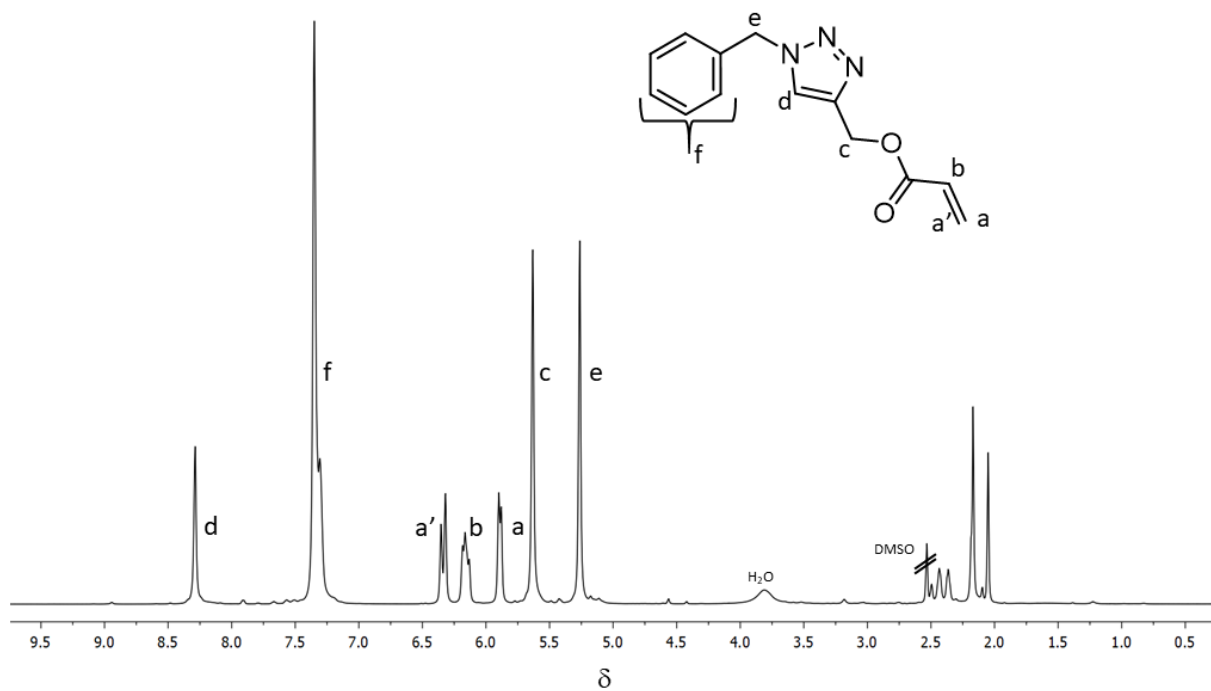


Figure S1. ¹H NMR spectra of the reaction between benzyl azide and propargyl acrylate after exposure using BPNs under NIR light irradiation.

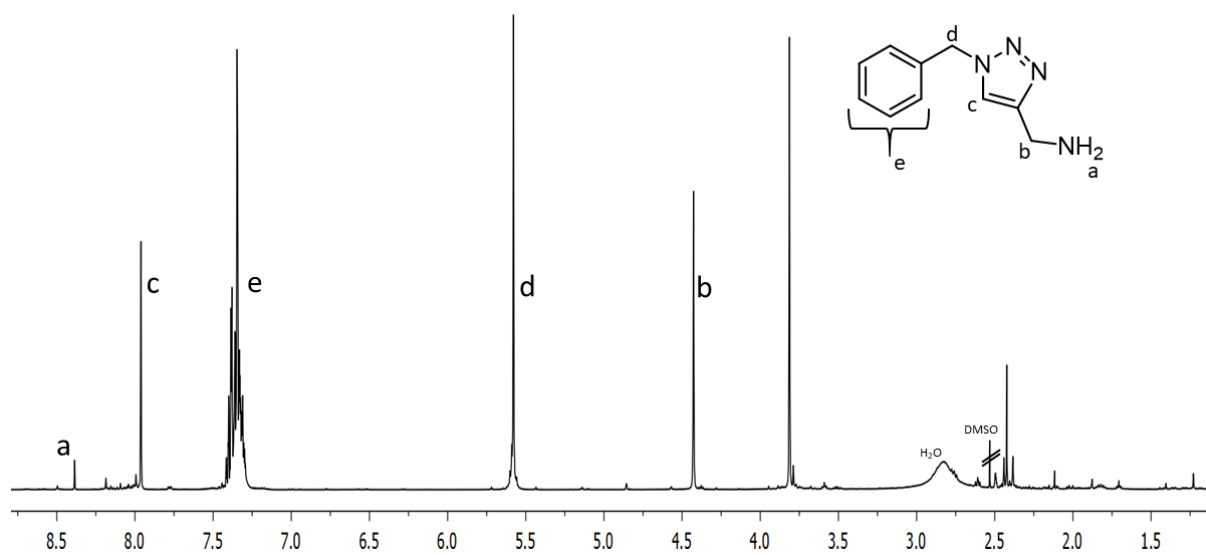


Figure S2. ¹H NMR spectra of the reaction between benzyl azide and propargyl amine after exposure using exfoliated BP under NIR light irradiation.

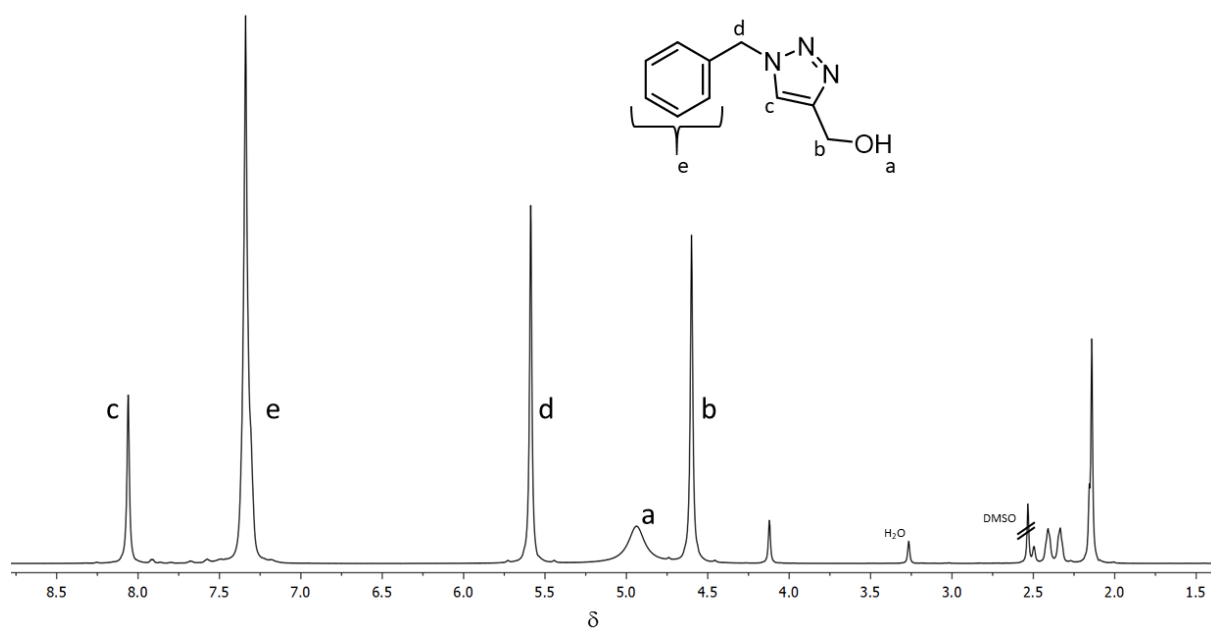


Figure S3. ^1H NMR spectra of the reaction between benzyl azide and propargyl alcohol after exposure using exfoliated BP under NIR light irradiation.

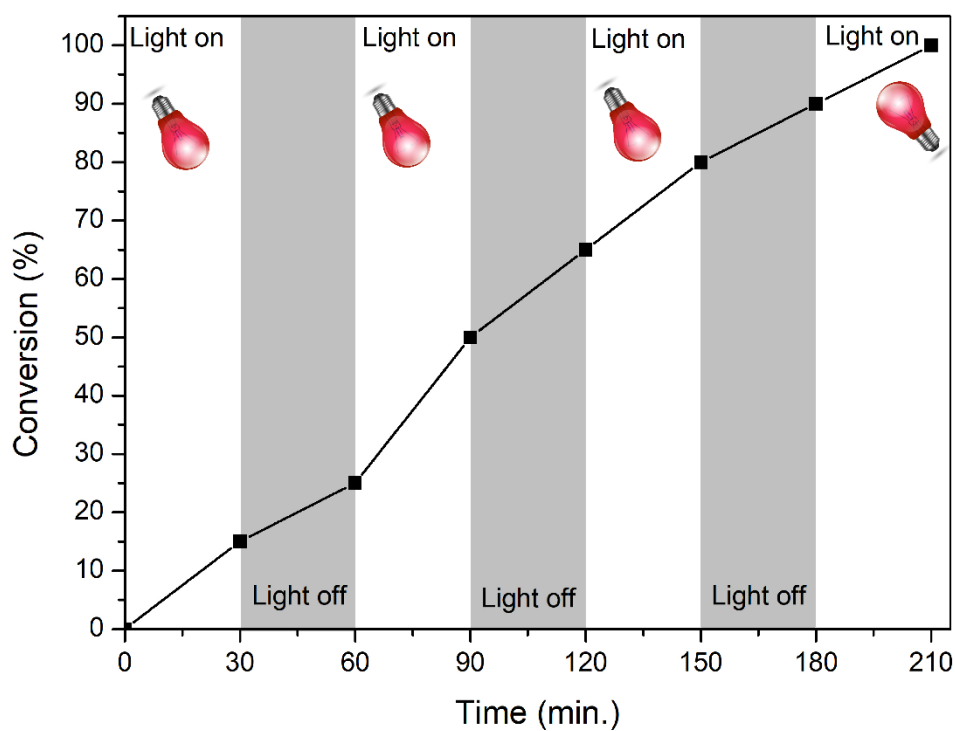


Figure S4. Kinetic study of CuAAC reaction between propargyl alcohol and benzyl azide under NIR light.

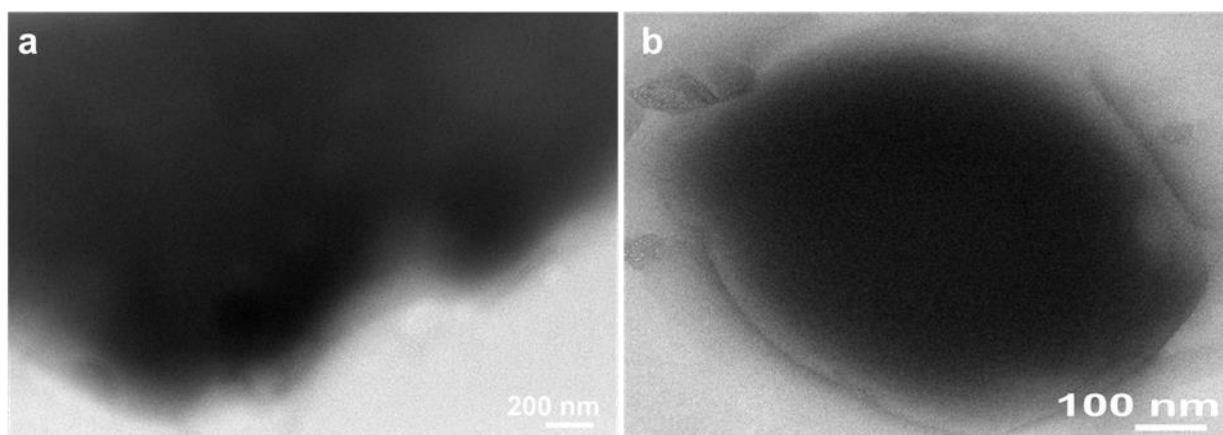


Figure S5. TEM images of **a** and **b** PS-*b*-PCL block copolymer at different magnification.

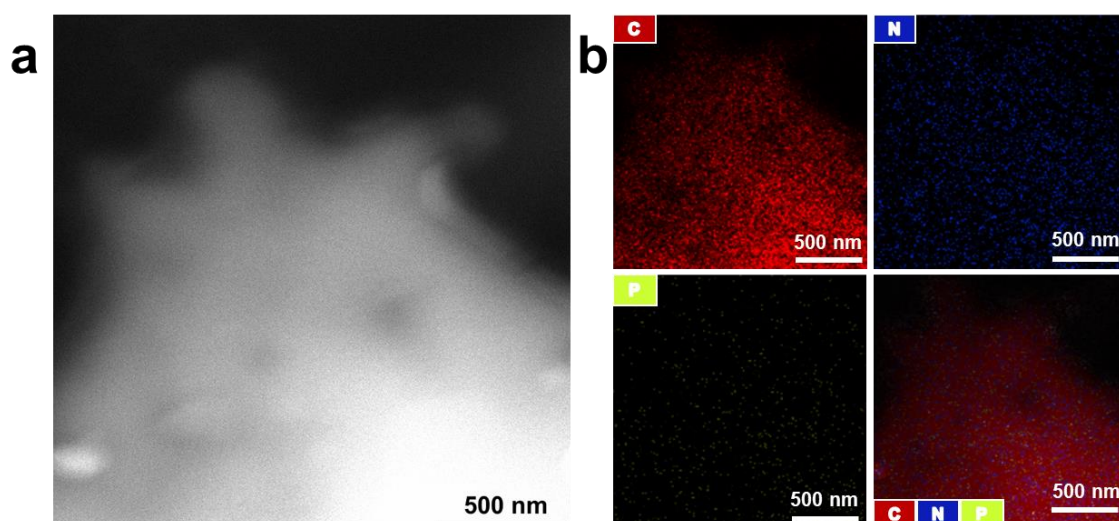


Figure S6. HAADF-STEM image **a** associated EDS elemental mapping images **b** of PS-*b*-PCL block copolymer.