Supplementary Information

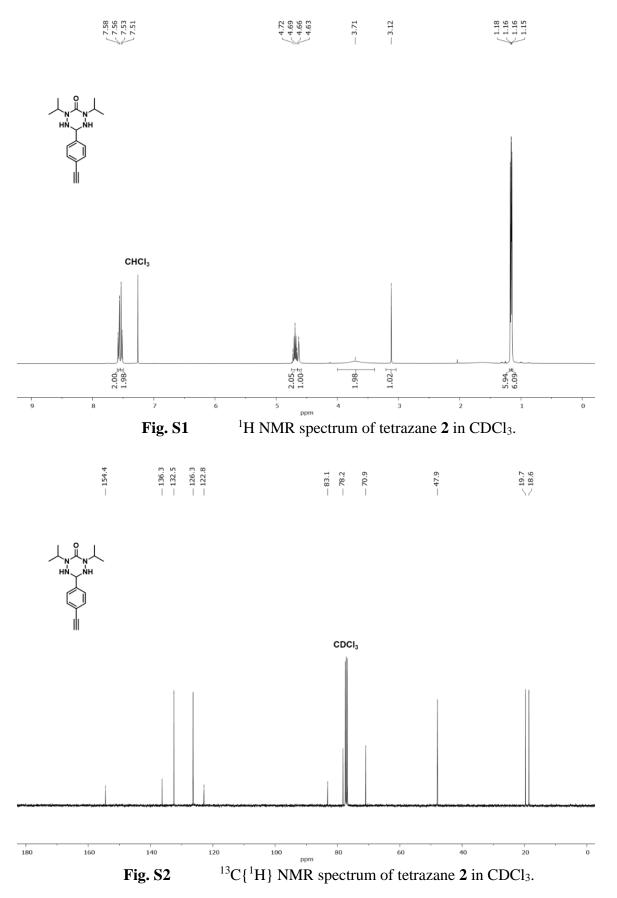
A divergent strategy for the synthesis of redox-active verdazyl radical polymers

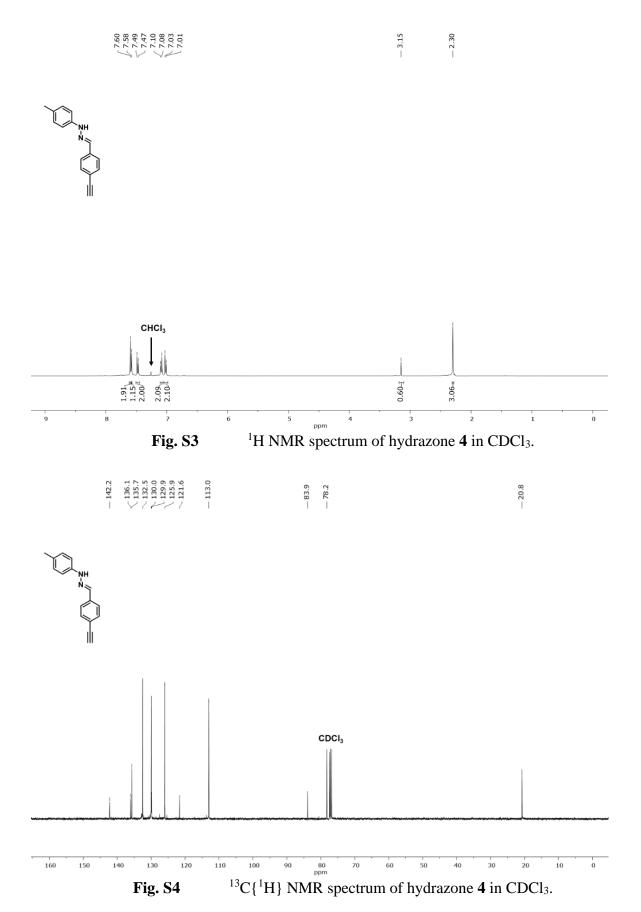
François Magnan^{a,b}, Jasveer S. Dhindsa^{a,b}, Michael Anghel,^{a,b} Paul Bazylewski^{b,c},

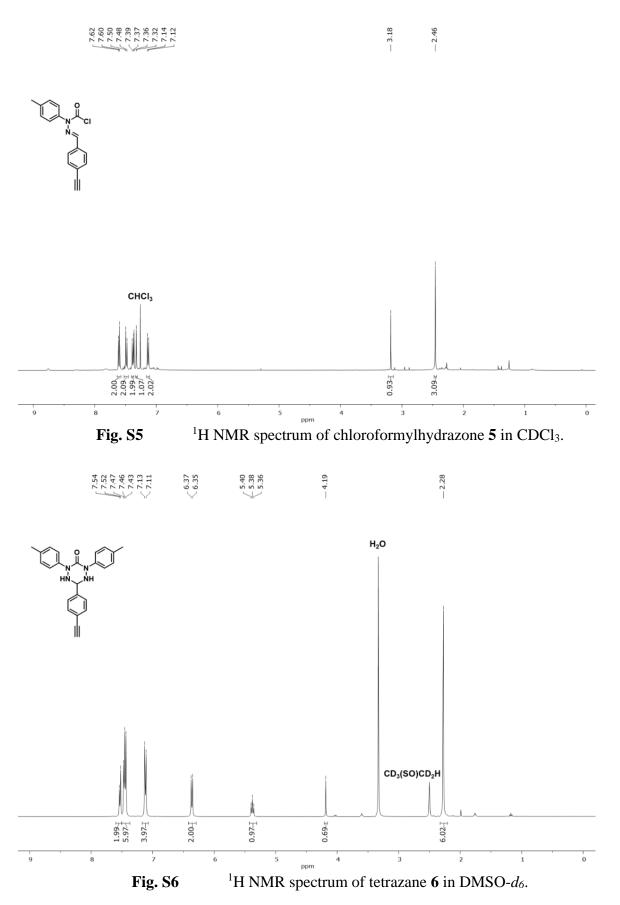
Giovanni Fanchini^{a,b,c*}, and Joe B. Gilroy^{a,b*}

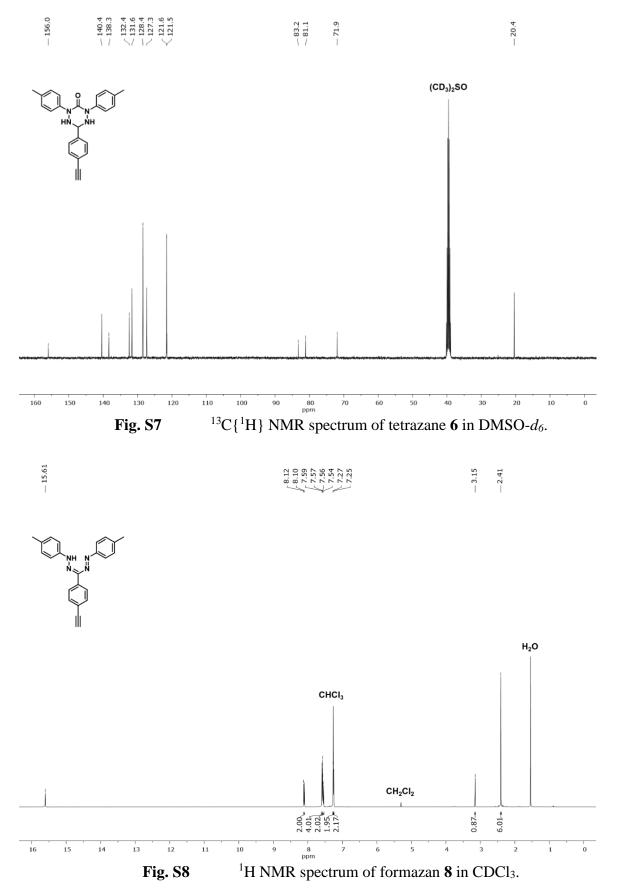
^aDepartment of Chemistry, The University of Western Ontario, London, Ontario, Canada, N6A 5B7. ^bThe Centre for Advanced Materials and Biomaterials Research (CAMBR), The University of Western Ontario, London, ON, Canada, N6A 5B7. ^cDepartment of Physics and Astronomy, The University of Western Ontario, London, Ontario, Canada, N6A 3K7.

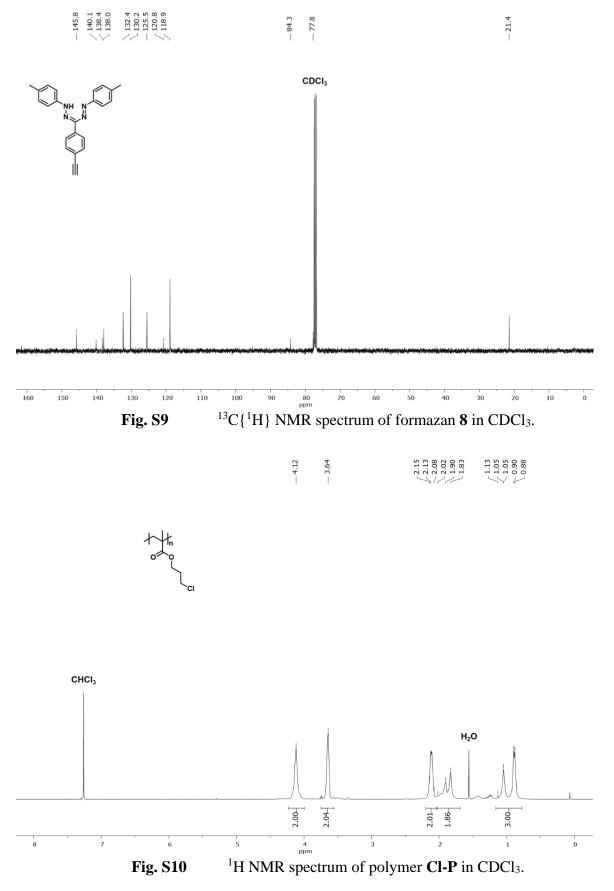
Correspondence to: G. Fanchini (E-mail: gfanchin@uwo.ca) and J. B. Gilroy (E-mail: joe.gilroy@uwo.ca)

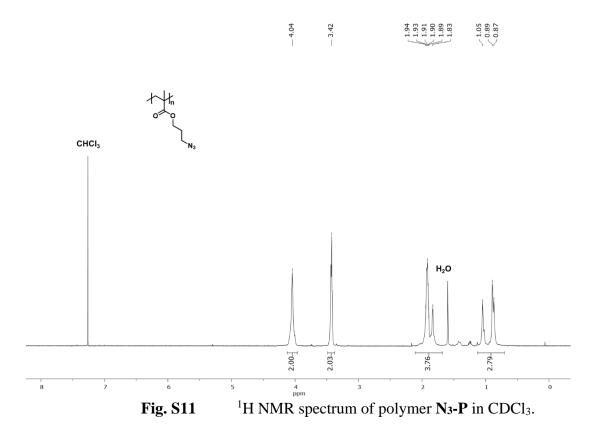












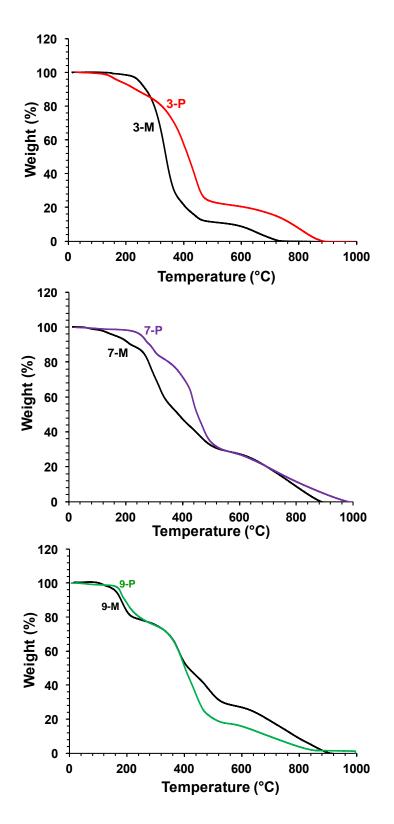


Fig. S12 TGA data for radical monomers **3-M**, **7-M**, and **9-M** and radical polymers **3-P**, **7-P**, and **9-P** collected under an atmosphere of N₂.

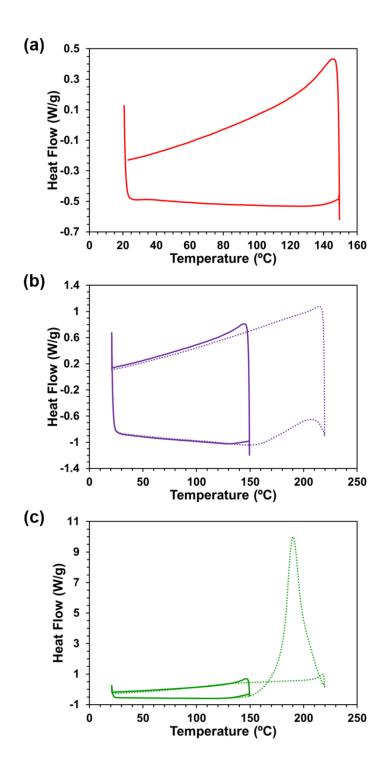


Fig. S13 DSC data for polymers (a) **3-P**, (b) **7-P**, and (c) **9-P** collected between 20 and 150 °C at a scan rate of 10 °C min⁻¹. Dotted lines in (b) and (c) show data collected for the same sample (3^{rd} cycle) with heating and cooling cycle between 20 and 220 °C at a scan rate of 10 °C min⁻¹.

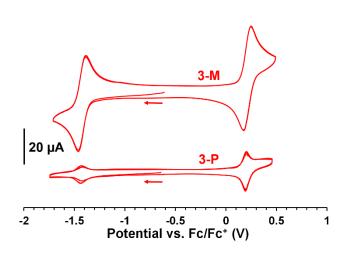


Fig. S14 Cyclic voltammograms of model radical **3-M** and polymer **3-P** collected upon cycling. Experiments were conducted at a scan rate of 250 mV s⁻¹ in degassed mixtures of 3:1 v/v CH₂Cl₂/CH₃CN containing approximately 1 mM of analyte and 0.1 M [*n*Bu₄N][PF₆] as the supporting electrolyte.

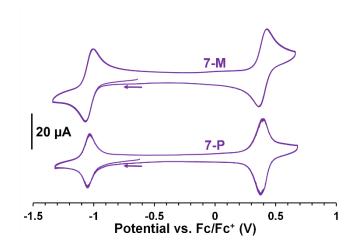


Fig. S15 Cyclic voltammograms of model radical **7-M** and polymer **7-P** collected upon cycling. Experiments were conducted at a scan rate of 250 mV s⁻¹ in degassed mixtures of 3:1 v/v CH₂Cl₂/CH₃CN containing approximately 1 mM of analyte and 0.1 M [nBu_4N][PF₆] as the supporting electrolyte.

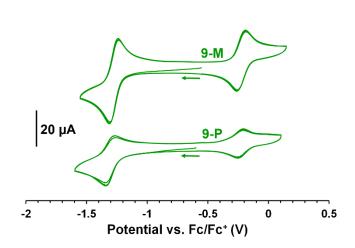


Fig. S16 Cyclic voltammograms of model radical **9-M** and polymer **9-P** collected upon cycling. Experiments were conducted at a scan rate of 250 mV s⁻¹ in degassed mixtures of 3:1 v/v CH₂Cl₂/CH₃CN containing approximately 1 mM of analyte and 0.1 M [*n*Bu₄N][PF₆] as the supporting electrolyte.