Supporting document for the abstract "MLD of Phosphane-ene polymer thin films: Bringing solution polymer chemistry to a gas phase process".



Figure 1: A typical phosphane-ene reaction that utilizes a radical source.



Figure 2: A typical phosphane-ene polymer, utilizing *iso*-butylphosphine and a triallyl crosslinker.



Figure 3: Volatile crosslinker molecules utilized in the PE-MLD of phosphane-ene poymer thin films.