METHODS AND COMPOSITIONS COMPRISING POLYOXOMETALATES

Abstract

The present invention generally relates to compositions and methods comprising polyoxometalates (POMs). In some cases, a reduced form of a POM may be formed via electrolysis in the presence of essentially no supporting electrolyte. The reduced POMs may be used for various applications, for example, for the formation of metallic nanoparticles. Some embodiments of the present invention provide compositions and methods comprising reduced forms of the polyoxometalate, [alpha-$SiW_{12}O_{40}$]$^{4-}$.

Figure 1