SUPPLEMENTARY INFORMATION

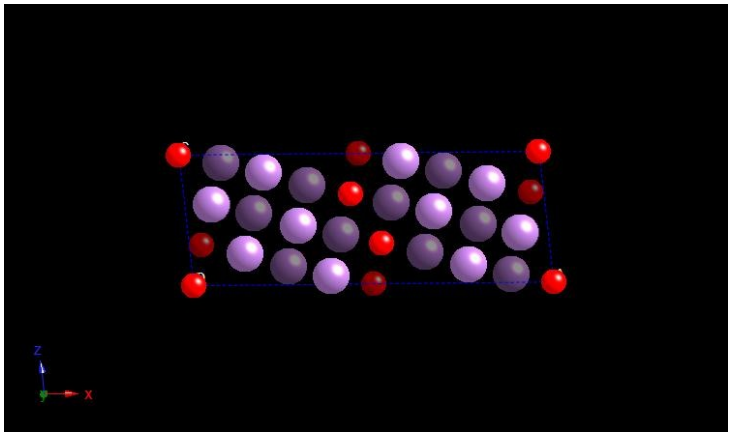

Figure 1. Schematic cationic model proposed by Vila et al. (2005) for the $Bi_{10}Mo_3O_{24}$ phase oriented along *b* axis. Red balls indicate Mo atoms and blue balls Bi atoms. Light and dark colors indicate atoms at heights of 0 and ½. See Table 1 for the atomic coordinates.

Table 1. Cationic structural model proposed by Vila et al. (2005) for $Bi_{10}Mo_3O_{24}$.

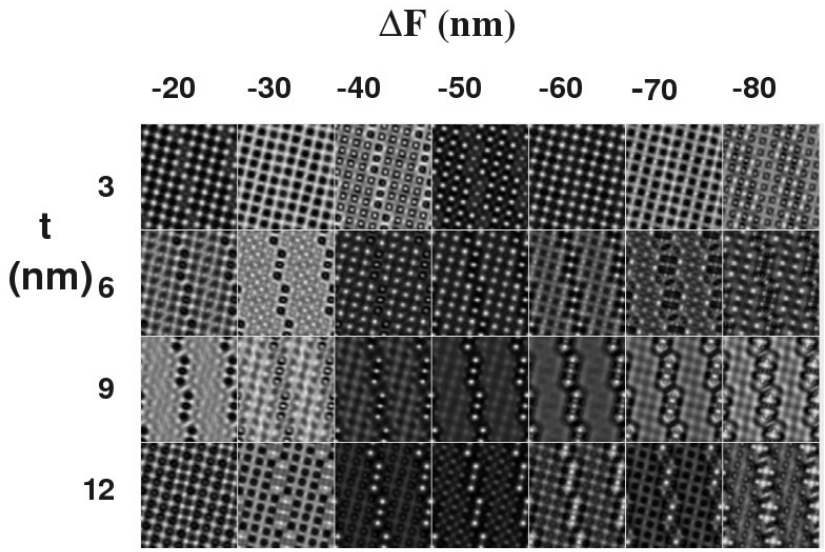

Figure 2. Simulated images for the $Bi_{10}Mo_3O_{24}$ cationic model proposed by Vila et al. (2005) for thicknesses of 3,6,9 and 12 nm and defoci ranging from -20 nm to -80 nm. The atomic coordinates are collected in Table 1.

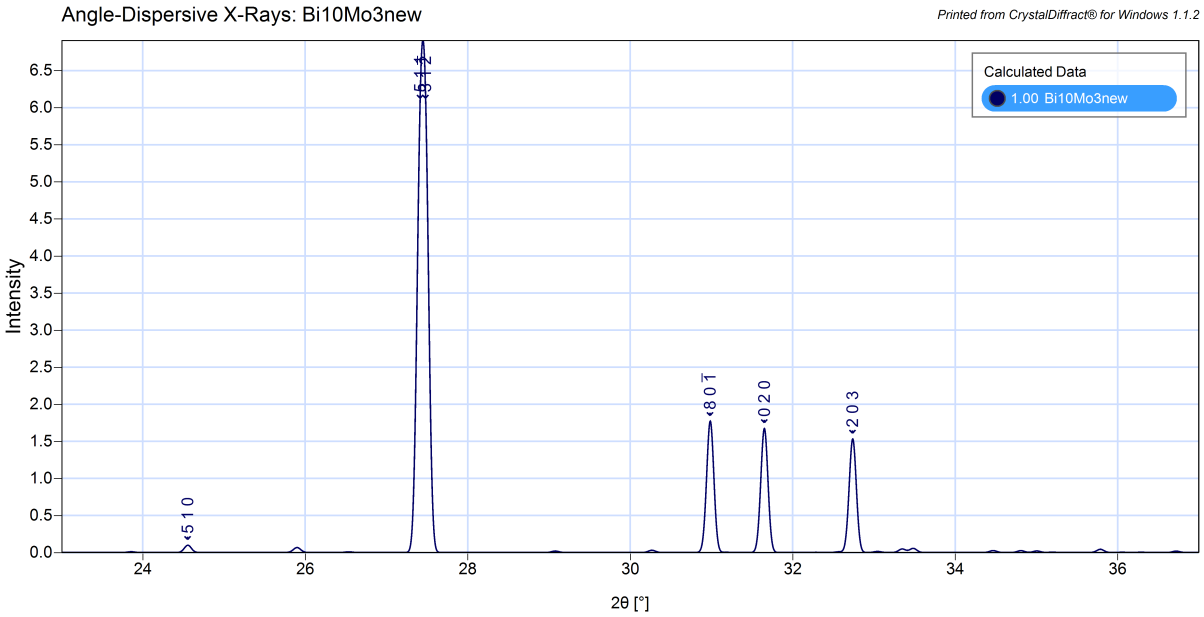

Figure 3.- Powder diffraction patterns simulated for the cationic model proposed for the phase $Bi_{10}Mo_3O_{24}$ in Fig. 3 whose atomic coordinates are collected in Table 1. Compare it with the diffraction pattern published by Vila et al. (2007)

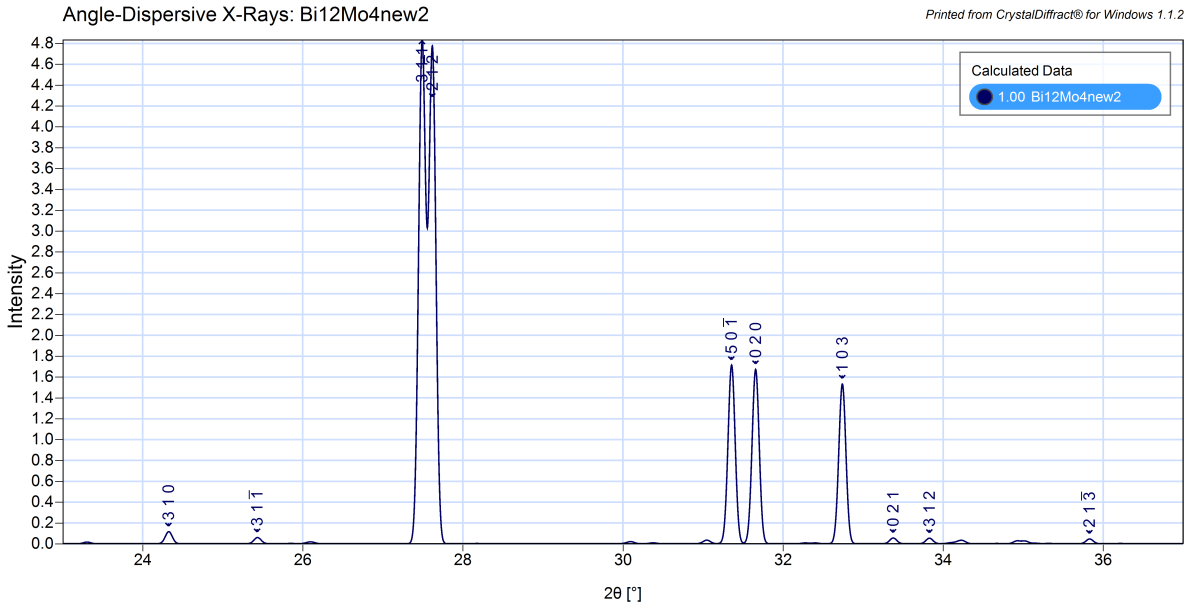

Figure 4.- Powder diffraction pattern simulated for the cationic model proposed for $Bi_{12}Mo_4O_{30}$ phase in Figure 7-b in the article.

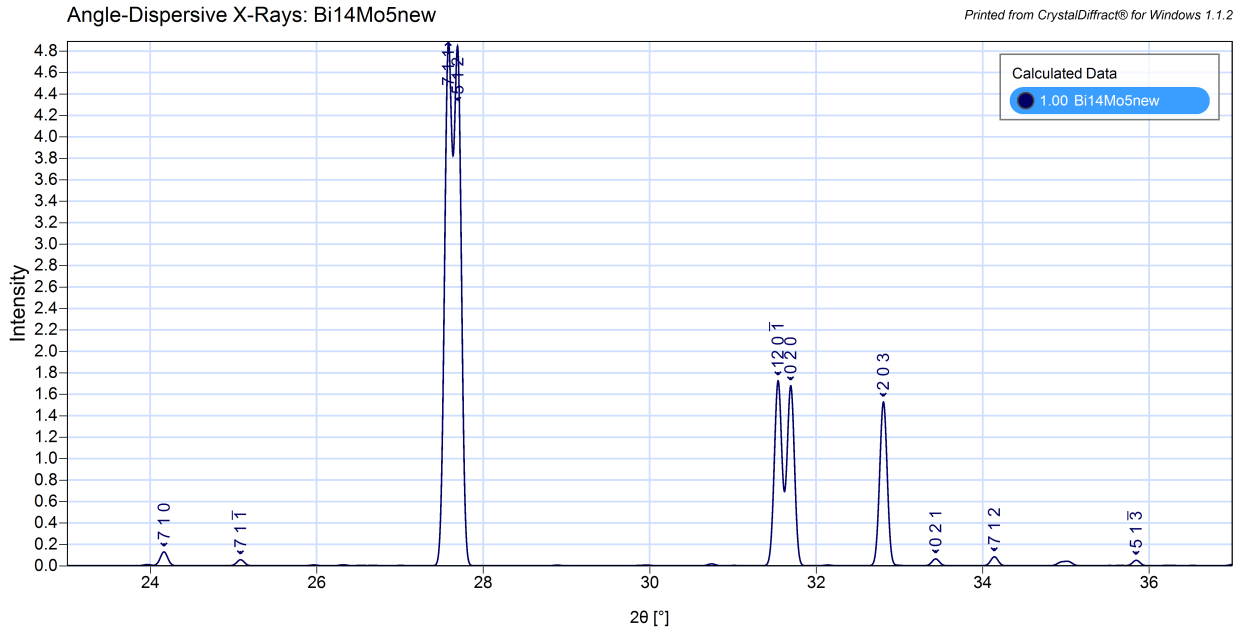

Figure 5.- Powder diffraction pattern simulated for the cationic model proposed for $Bi_{14}Mo_5O_{36}$ phase in Figure 8-b of the article.

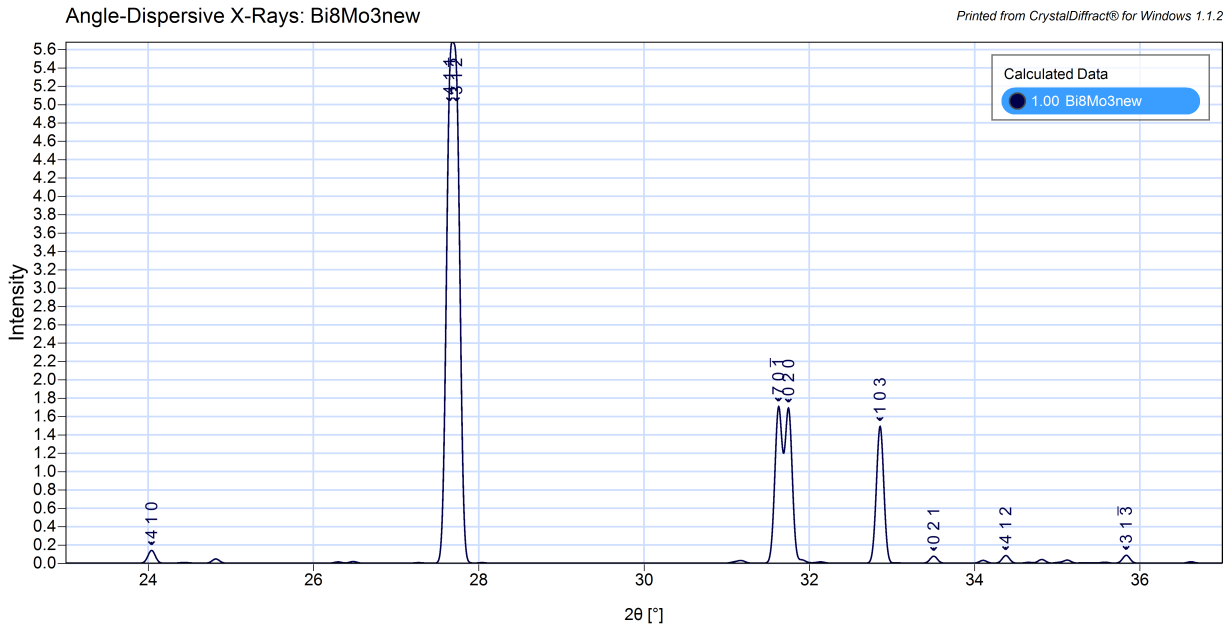

Figure 6.- Powder diffraction pattern simulated for the cationic model proposed for $Bi_{16}Mo_6O_{42}$ phase in Figure 9-a of the article.