Supplementary Materials

Figure S1. Pseudo-first order kinetic model of Zn$^{2+}$.

Figure S2. Pseudo-first order kinetic model for As$^{3+}$. 
Figure S3. Pseudo-second order kinetic model of Zn$^{2+}$.

Figure S4. Pseudo-second order kinetic plot of As$^{3+}$. 
Figure S5. Kinetic model for elovic- As$^{3+}$.

Figure S6. Elovic kinetic model of Zn$^{2+}$. 
Figure S7. Kinetic plot of intraparticle diffusion model for Zn$^{2+}$.

Figure S8. Intra-particle diffusion model for As$^{3+}$.  

Figure S8. Intra-particle diffusion model for As$^{3+}$. 
Figure S9. Langmuir isotherm plot of Zn$^{2+}$.

Figure S10. Freundlich isotherm plot for Zn$^{2+}$. 
Figure S11. Langmuir isotherm plot for As³⁺.

Figure S12. Freundlich isotherm plot for As³⁺.