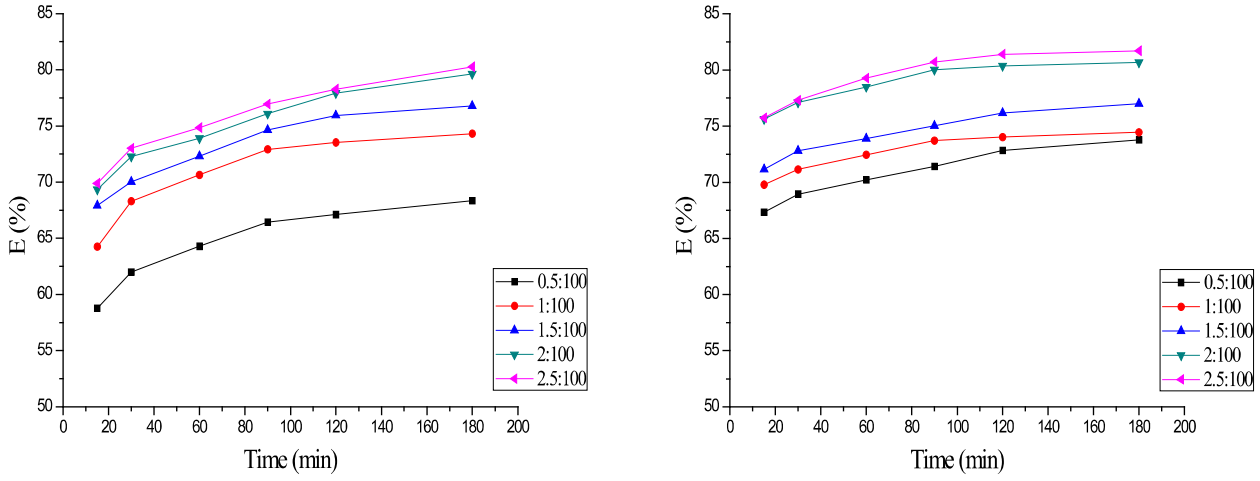
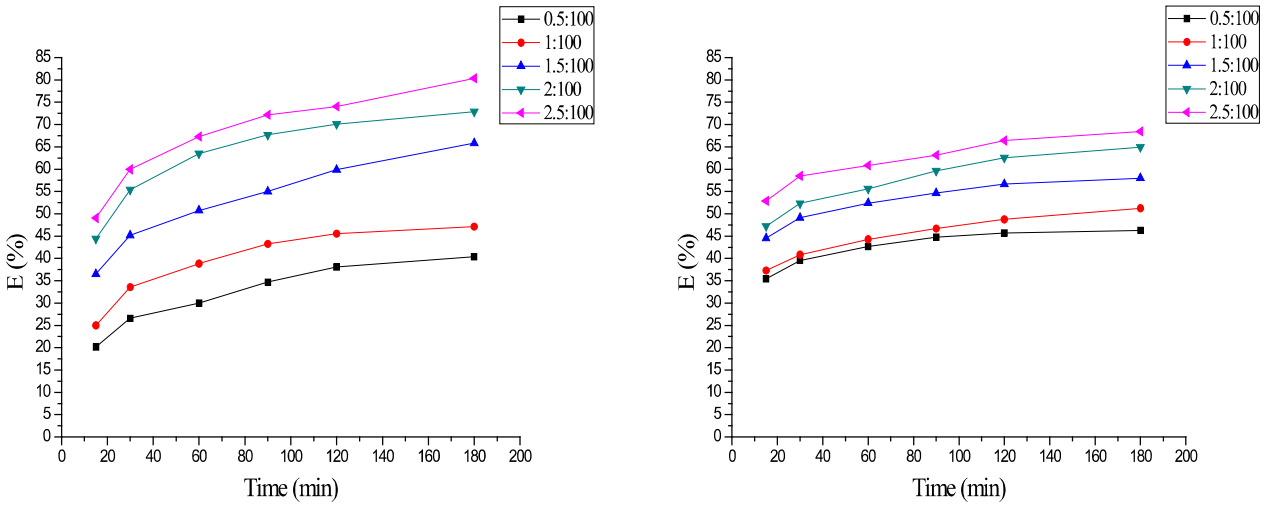
rium constant, A_∞ is maximum adsorption, K_{BET} is BET equilibrium constant, K_F and 1/n are Freundlich isotherm constants. According to the data in Table 1, the BET isotherm model does not describe the sorption process. Langmuir theory does not fully describe the process, while the correlation coefficient values of the Freundlich model show better results. Consequently, sorption of Zn^{2+} and Cu^{2+} ions by modified OP and PP occurs at a heterogeneous system with an uneven filling of active centers.



a) Zn^{2+} b) Cu^{2+}

Figure 4 – Dependence of removal degree (%) of (a) Zn^{2+} and (b) Cu^{2+} ions by modified OP at different masses of composite material on time



a) Zn^{2+} b) Cu^{2+}

Figure 5 – Dependence of removal degree (%) of (a) Zn^{2+} and (b) Cu^{2+} ions by modified PP at different masses of composite material on time