Supplemental Information for

Chemical characteristics of PM2.5 during 2016 winter haze episodes in Shijiazhuang, China

Fei Chen,[a,b] Xiaohua Zhang,[a] Xinsheng Zhu,[a] Hui Zhang,[a,b] Jixi Gao,[a,b*]

Philip K. Hopke[c**]

[a] Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, Nanjing, 210042, China

[b] Collaborative Innovation Center of Atmospheric Environment and Equipment Technology (CICAEET), Nanjing University of Information Science & Technology, Jiangsu, 210044, China

[c] Center for Air Resource Engineering and Science, Clarkson University, Potsdam, New York 13699, USA

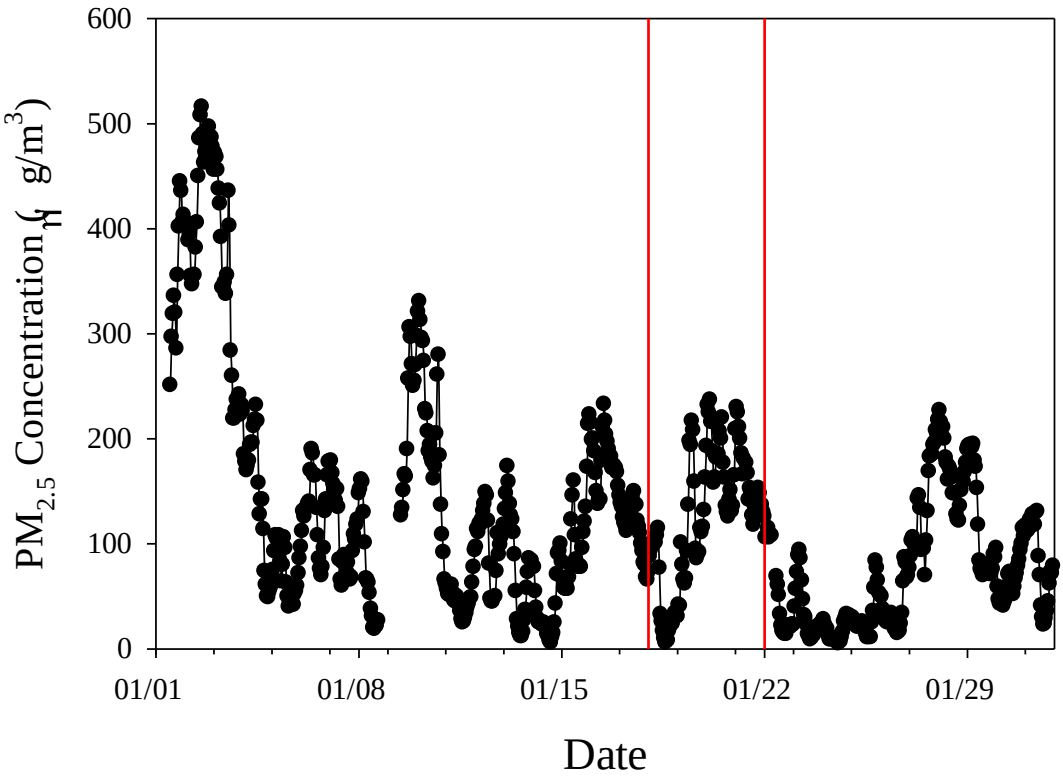

Figure S1. Time series of the observed hourly $PM_{2.5}$ concentrations averaged over 7 monitoring sites in Shijiazhuang from January 1 to January 31 2016. The intensive campaign was conducted from January 18 to January 22 (denoted by vertical lines), which represents a haze event.