Figure S1 Temporal variations of mass concentrations of aerosols and main chemical components in $PM_{2.5}$
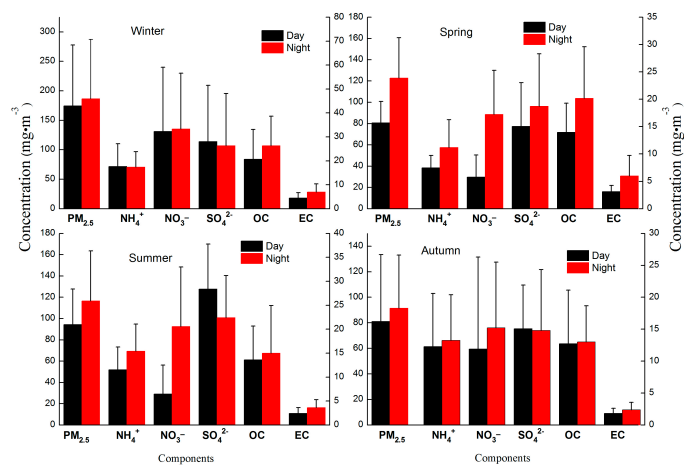

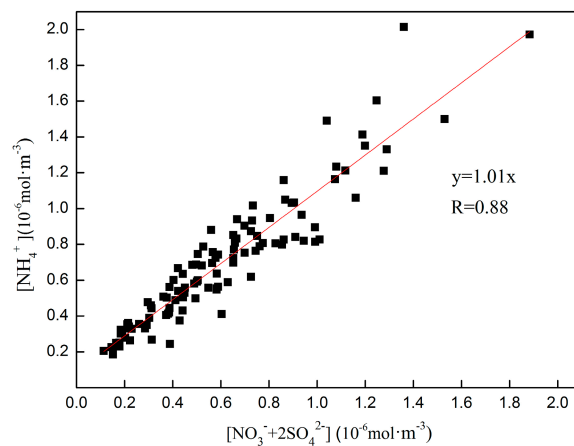Figure S2 Day-night variations of $PM_{2.5}$ and main chemical components in four seasons

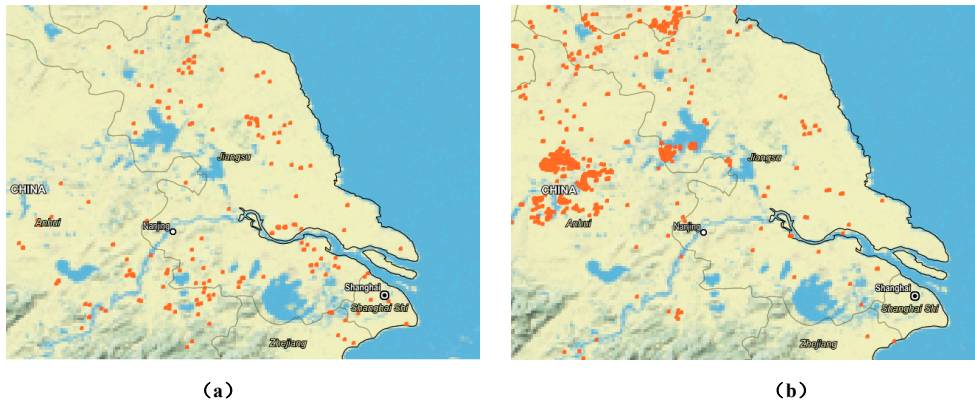Figure S3 Correlation analysis of molar concentrations of SO_4^{2-}, NO_3^- and NH_4^+

（a）　　　　　　　　　　　　　　　　（b）

Figure S4 Satellite images of fire points during typical biomass burning episodes

(a) 5.28-5.31　　**(b)** 6.6-6.8

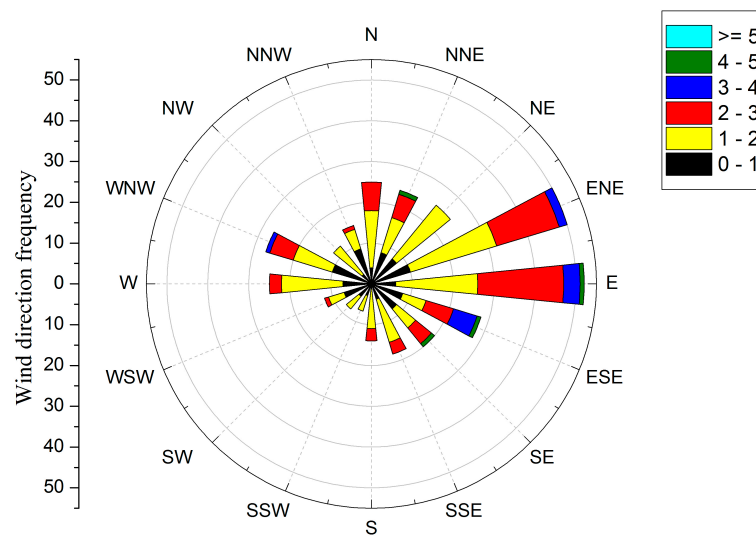（https://firms.modaps.eosdis.nasa.gov/firemap/）

Figure S5 Wind rose map from January to November 2014 in suburban Nanjing