Figure S1. Distribution of air quality monitoring stations in Pacific Asia, with shading color in the background indicating green vegetation fraction.
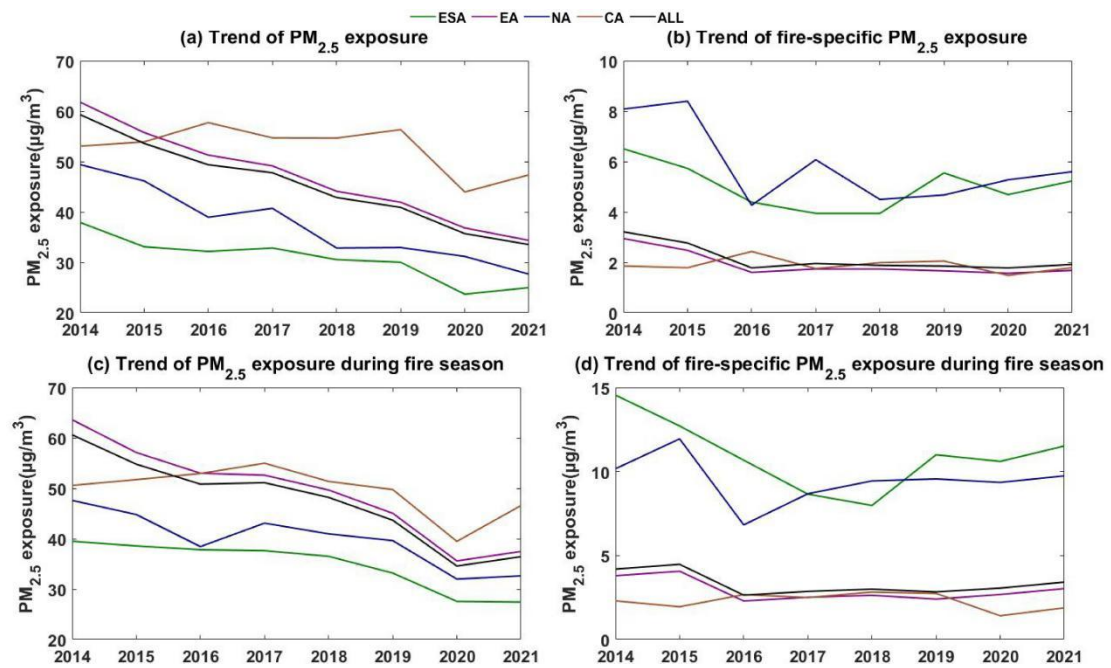
Figure S2. Temporal variations of (a) annual mean $PM_{2.5}$ exposure and (b) annual mean fire-specific $PM_{2.5}$ in different regions; (c)(d) similar to (a)(b), but for fire season mean.
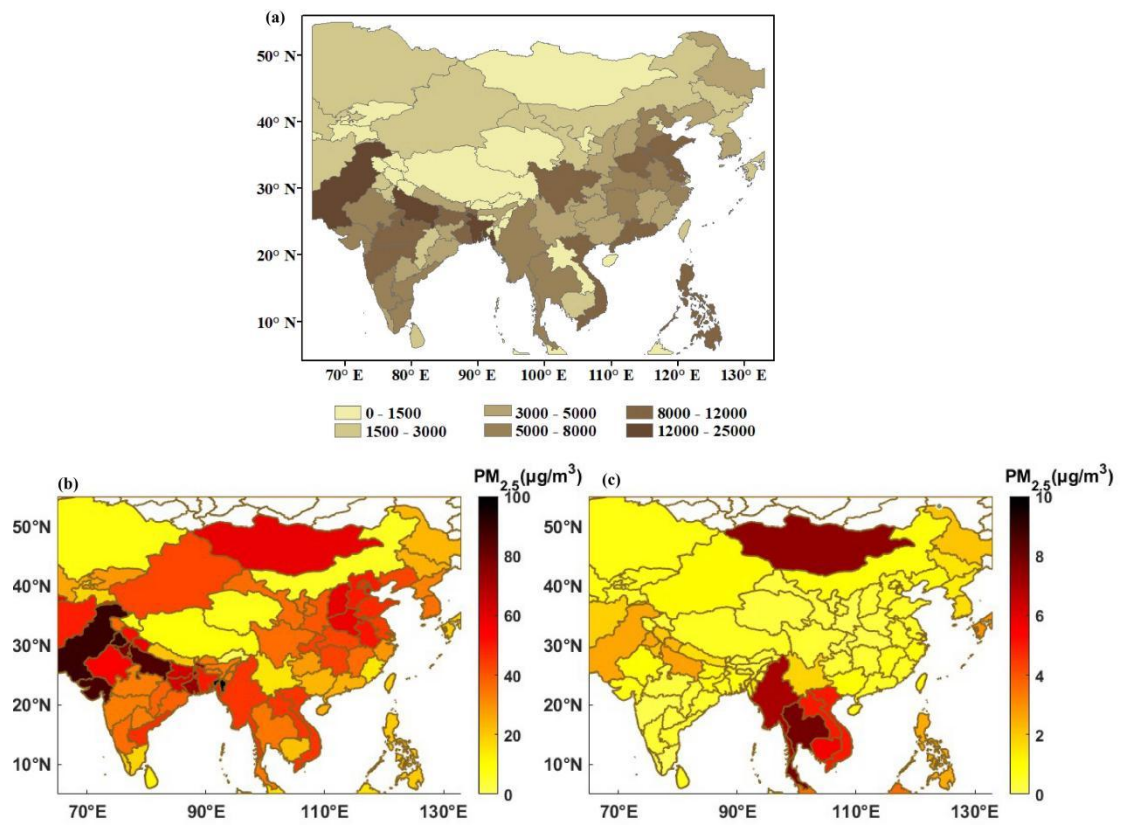
Figure S3. Temporal variations of (a) populations ($\times 10^4$) and (b) annual mean PM$_{2.5}$ in different regions; (c) annual mean fire-specific PM$_{2.5}$.