Air quality forecasting is a vital tool for local health and air managers to make informed decisions on mitigation measures to reduce public exposure risk. Given a forecast of impending poor air quality, air quality managers may issue car-pooling advisories, authorize free public transportation or impose other mitigation and warning measures. Air composition monitoring and exposure records can inform long-term trends of major air pollutants and their health impacts. Epidemiologists use long term composition data to understand air pollution related diseases and mortality rates to support public health policies. This Special Issue highlights the interplay and co-benefit of air quality monitoring and forecasting.

Public health is under a constant threat by air pollution across the world in various degrees and manifestations. In China, rapid economic growth has resulted in increased occurrences of poor air quality. In this special issue, Lu et al. [1] of Wuhan University and Zhou et al. [2] of Chengdu University respectively studied urban haze and the distribution of multiple pollutants in China. Lyu et al. [3] of Tsinghua University and Georgia Institute of Technology advanced particulate matter forecasts in China. Zhao et al. [4] of Nanjing University studied the strong response of emission controls during a recent Youth Olympics event in Nanjing, China.


It is clear that air pollution remains a global problem and that air quality monitoring, forecasting and mitigation begins as a local effort conducted in concert with global partners. The articles selected in this Special Issue speak volumes to this fact many times over across the globe. We thank the editing office for their excellent support to realize this herculean achievement to collect and publish the cutting edge articles in this issue.

Conflicts of Interest: The authors declare no conflict of interest.
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