

1 *Supplementary materials to*  
2 **Characteristics of the main primary source profiles of**  
3 **particulate matter across China: from 1987 to 2017**

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29 This Supplementary materials includes 1 table and 1 figure.

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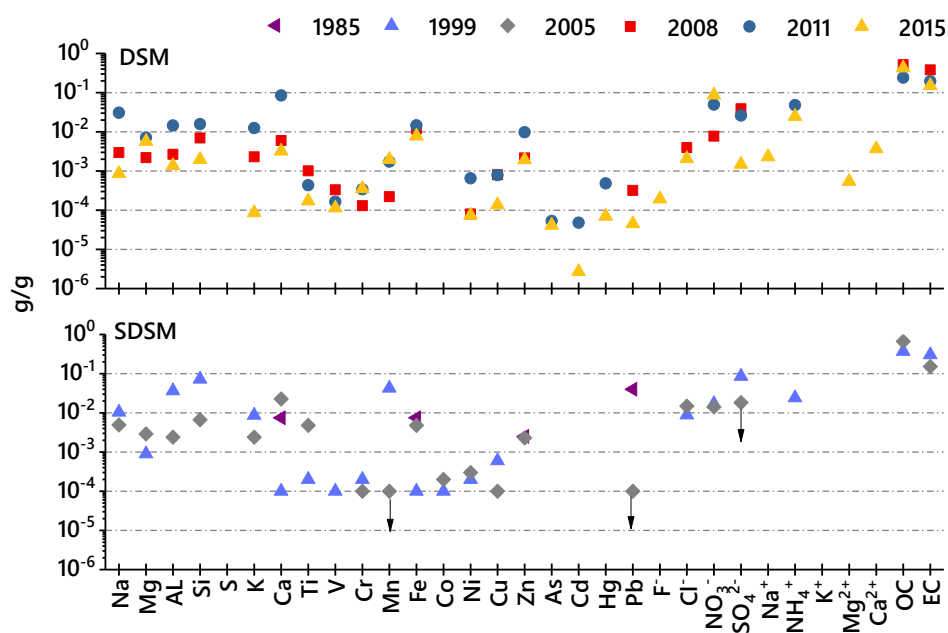
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**Table S1.** Source profiles statistics (Cluster analysis)

Code	Source category	Size	Profiles
CE1-13	Cooking emissions	PM <sub>2.5</sub>	13
SD1-20	Soil dust	PM <sub>2.5</sub>	20
RD1-26	Road dust	PM <sub>2.5</sub>	26
IE1-43	Industrial emissions	PM <sub>2.5</sub>	43
VE1-22	Vehicle emissions	PM <sub>2.5</sub>	22
BB1-29	Biomass burning	PM <sub>2.5</sub>	29
CC1-73	Coal combustion	PM <sub>2.5</sub>	73

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**Figure S1.** Characteristics of chemical profiles for particulate matter emissions from vehicles obtained by different sampling methods. Different colors denote different years of these measurements. DSM and SDSM denote direct sampling method and source dominated sampling method, respectively. Data from the source library of Nankai University, Zhang et al.(2000), Guo et al.(2013), Li et al.(2016), Zhang et al.(2009), Dai et al.(1986), Han et al.(2009) and Bi et al.(2007).