

Table S1 Spearman correlation analysis of meteorological parameters and air pollutants between December 30, 2013, and December 31, 2019, in Chengdu

Variables	Daily mean TEM	Daily max TEM	Daily min TEM	Daily mean PRE	Daily max PRE	Daily min PRE	Daily mean RHU	Daily SSD	Diurnal variation of TEM	Diurnal variation of PRE	Day-to-day variation of TEM	Day-to-day variation of PRE	Day-to-day variation of RHU	Day-to-day variation of SSD	PM _{2.5}	NO ₂	O ₃
Daily mean TEM	1.00																
Daily max TEM	0.96	1.00															
Daily min TEM	0.97	0.88	1.00														
Daily mean PRE	-0.84	-0.81	-0.81	1.00													
Daily max PRE	-0.86	-0.82	-0.84	0.99	1.00												
Daily min PRE	-0.82	-0.80	-0.78	0.99	0.97	1.00											
Daily mean RHU	0.01*	-0.13	0.18	-0.02*	-0.05	0.04*	1.00										
Daily SSD	0.32	0.51	0.13	-0.23	-0.21	-0.25	-0.53	1.00									
Diurnal variation of TEM	0.21	0.44	-0.02*	-0.17	-0.15	-0.21	-0.58	0.85	1.00								
Diurnal variation of PRE	-0.43	-0.33	-0.50	0.35	0.44	0.22	-0.35	0.12	0.20	1.00							
Day-to-day variation of TEM	0.00*	0.02*	-0.02*	-0.04	-0.03*	-0.07	-0.12	0.04*	0.09	0.11	1.00						
Day-to-day variation of PRE	-0.29	-0.26	-0.30	0.22	0.27	0.15	-0.22	-0.08	0.00*	0.50	0.10	1.00					
Day-to-day variation of RHU	-0.05	-0.06	-0.04*	0.05	0.05	0.03*	-0.09	-0.05	-0.06	0.07	0.23	0.04	1.00				
Day-to-day variation of SSD	0.17	0.29	0.07	-0.12	-0.11	-0.14	-0.35	0.46	0.50	0.08	0.13	-0.02*	0.18	1.00			
PM _{2.5}	-0.49	-0.42	-0.54	0.34	0.36	0.34	-0.11	-0.07	0.13	0.23	-0.07	0.07	-0.12	0.05	1.00		
NO ₂	-0.32	-0.24	-0.39	0.27	0.28	0.28	-0.16	0.03*	0.23	0.16	-0.08	0.07	-0.15	0.10	0.77	1.00	
O ₃	0.72	0.83	0.57	-0.64	-0.63	-0.66	-0.44	0.67	0.65	-0.09	0.09	-0.11	-0.01*	0.40	-0.24	-0.13	1.00

Notes: *P<0.05

Abbreviations: TEM, temperature; PRE, atmospheric pressure; RHU, relative humidity; SSD, sunshine duration; PM_{2.5}, particulate matter with aerodynamic diameter $\leq 2.5\mu\text{m}$; NO₂, nitrogen dioxide; O₃, ozone.