Supplementary Materials

Table S1. Mean Concentrations of Six Elements of Ambient Air Quality in the Study Area during 2015–2018

Pollutants	2015	2016	2017	2018	Mean ± SD	Concentration limits		unit
						Grade I	Grade II	
$PM_{2.5}$	55.53 ± 30.32	51.94 ± 27.05	42.36 ± 25.80	43.70 ± 23.40	48.39 ± 27.29	15	35	
PM_{10}	82.21 ± 43.88	74.14 ± 38.23	66.60 ± 38.34	66.70 ± 36.01	72.41 ± 39.71	40	70	
SO_2	11.03 ± 5.62	10.91 ± 3.67	11.27 ± 3.60	8.67 ± 2.53	10.47 ± 4.14	20	60	μg/m^3
NO_2	28.27 ± 11.66	28.08 ± 10.06	30.78 ± 9.50	30.08 ± 11.28	29.30 ± 10.71	40	40	
O_3_8h	49.95 ± 31.24	61.82 ± 27.36	87.70 ± 34.80	88.09 ± 34.78	71.38 ± 35.96	--		
CO	0.81 ± 0.34	0.78 ± 0.24	0.68 ± 0.23	0.69 ± 0.20	0.74 ± 0.26			mg/m^3

Table S2. Number of Days of Air Pollutions at Different Levels in the Study Area during 2015–2018

	Excellent (I)	Good (II)	Mild pollution (III)	Moderate pollution(IV)	Heavy pollution (V)
2015	68	224	49	18	6
2016	101	201	56	5	3
2017	94	219	44	8	0
2018	104	214	40	6	1

Table S3. Correlation Coefficient Table between AQI and Meteorological Factors in the Study Area during 2015–2018

	AQI	SO_2	NO_2	PM_{10}	CO	O_3	$PM_{2.5}$	T	AP	RH	WS	P	HV
AQI	1												
SO_2	0.113**	1											
NO_2	0.659**	0.160**	1										
PM_{10}	0.985**	0.151**	0.665**	1									
CO	0.771**	0.136**	0.520**	0.741**	1								
O_3	-0.342**	0.140**	-0.164**	-0.296**	-0.454**	1							
$PM_{2.5}$	0.993**	0.099**	0.647**	0.969**	0.791**	-0.381**	1						
T	-0.429**	0.127**	-0.394**	-0.392**	-0.502**	0.541**	-0.447**	1					
AP	0.417**	-0.105**	0.436**	0.389**	0.384**	-0.526**	0.427**	-0.850**	1				
RH	-0.132**	-0.167**	-0.107**	-0.198**	0.036	-0.481**	-0.083**	-0.366**	0.277**	1			
WS	-0.352**	-0.100**	-0.382**	-0.344**	-0.306**	0.440**	-0.364**	0.106**	-0.265**	-0.167**	1		
P	-0.414**	0.039	-0.286**	-0.439**	-0.314**	0.215**	-0.403**	0.264**	-0.300**	0.144**	0.240**	1	
HV	-0.549**	-0.035	-0.393**	-0.484**	-0.601**	0.446**	-0.585**	0.604**	-0.440**	-0.473**	0.177**	0.116**	1

**means that the correlation is significant on the confidence level (double tests) of 0.01