

Supplementary materials

AUTHORS: Qiu-Ping Xu, Ji-Zhong Wang, Jia-Qin Liu, and
Shu-Chuan Peng

ADDRESS: School of Resources & Environmental Engineering,
Hefei University of Technology, Anhui Province,
23009, China
Institute of Industry & Equipment Technology, Hefei
University of Technology, Hefei 230009, China

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Table S1 The detailed information on sampling time, sampling locations, meteorological condition and air quality during sampling periods

site	Abbreviation	latitude/longitude	sampling height	sampling date	weather	T(°C)	wind direction ^a	wind speed ^b	AQI ^c	PM _{2.5} ^c	PM ₁₀ ^c
Lujiang city	LJ	31.261°/ 117.290°	Residential	17 th Oct	sunny	17–25	NE	<5.4	196.9	147.1	231.8
			roof, about 5–9	18 th Oct	sunny	17–25	NE	<5.4	238	187.3	295.6
			meters off the ground	19 th Oct	sunny	19–28	S	<5.4	116.3	67	170.8
Tangchi village	TC	31.328°/ 117.010°	Residential	17 th Oct	sunny	17–25	NE	<5.4	196.9	147.1	231.8
			roof, about 5–9	18 th Oct	sunny	17–25	NE	<5.4	238	187.3	295.6
			meters off the ground	19 th Oct	sunny	19–28	S	<5.4	116.3	67	170.8
Emerald Lake campus of Heifei University of Technology	GDXQ	31.767°/ 117.201°	Teaching building roof,	24 th Oct	sunny	13–27	SW	<5.4	117.9	85.3	158.3
			about 15–20	25 th Oct	sunny	14–27	S	<5.4	95.4	65.3	131.7
			meters off the ground	26 th Oct	sunny	16–29	E	<5.4	121.9	85.2	169.2
Hefei NO.1 High School	YZ	31.376°/ 117.276°	Residential	12 th Nov	sunny	4–17	NW	3.4–7.9	126.2	94.8	91.7
			roof, about 5–9	13 th Nov	sunny	4–17	NW	3.4–7.9	90.5	64.4	82.6
			meters off the ground	14 th Nov	sunny	4–15	SW	<5.4	106.8	79.9	106.9

Xiaomiao town	XM	31.846°/ 117.001°	Hotel roof, about 15–20 meters off the ground	2 nd Nov	sunny	5–17	NW	3.4–7.9	101.9	73.1	63.5
				3 rd Nov	sunny	6–16	E	<5.4	66.6	45.5	72.3
				4 th Nov	sunny	10~17	S	<5.4	91.5	66.7	102.3
Shanhe town	SH	31.511°/ 117.241°	Teaching building roof, about 15–20 meters off the ground	2 nd Nov	sunny	5–17	NW	3.4–7.9	101.9	73.1	63.5
				3 rd Nov	sunny	6–16	E	<5.4	66.6	45.5	72.3
				4 th Nov	sunny	10–17	W	<5.4	91.5	66.7	102.3
Shanbing town	SB	31.531°/ 117.745°	Residential roof, about 5–9 meters off the ground	1 st Dec	sunny	-1–6	N	3.4–7.9	74.2	49.7	60.6
				2 nd Dec	light rain	0–6	NW	<5.4	54.9	37.3	49.5
				3 rd Dec	cloudy	-1–7	NW	<5.4	76.2	55.6	53.4
Chaohu city	CH	31.622°/ 117.881°	Hotel roof, about 15–20 meters off the ground	1 st Dec	sunny	-1–6	N	3.4–7.9	74.2	49.7	60.6
				2 nd Dec	light rain	0–6	NW	<5.4	54.9	37.3	49.5
				3 rd Dec	cloudy	-1–7	NW	<5.4	76.2	55.6	53.4
Zhongmiao town	ZM	31.586°/ 117.462°	Residential roof, about 5–9 meters off the ground	6 th Dec	sunny	3–10	NW	3.4–7.9	119.8	90.3	88
				7 th Dec	sunny	2–12	NW	3.4–7.9	137.2	103.5	107.7
				8 th Dec	sunny	2–12	NW	3.4–7.9	143.2	107.9	101.6

Changfeng city	CF	32.038°/ 117.245°	Hotel roof, about 15~20 meters off the ground	25 th Dec	cloudy	1–11	S	3.4–7.9	115	83	102.2
				26 th Dec	cloudy	1–13	SE	<5.4	92.3	59.6	219.3
				27 th Dec	cloudy	1–10	NE	3.4–7.9	132.1	99.9	137.9
Fengdong city	FD	31.785°/ 117.622°	Hotel roof, about 15–20 meters off the ground	25 th Dec	cloudy	1–11	S	3.4–7.9	115	83	102.2
				26 th Dec	cloudy	4–15	S	3.4–7.9	92.3	59.6	219.3
				27 th Dec	cloudy	4–15	NE	3.4–7.9	132.1	99.9	137.9

^a, NE, S, SW, E, SE, NW, and N represent northeast, south, southwest, east, southeast, northwest and north wind; ^b, wind speed with a unit of m s^{-1} ; ^c, the daily average of air quality index (AQI), $\text{PM}_{2.5}$ and PM_{10} were obtained from air quality monitoring station of Sanlijie (downtown of Hefei city), AQI is unitless, $\text{PM}_{2.5}$ and PM_{10} were reported with an unit of $\mu\text{g m}^{-3}$.