Table S1. NO_2 performance statistics (MAE, RMSE and R^2 results) for the FFNNs and MLR schemes

	NO_2					
	FFNN			**MLR**		
	MAE	*RMSE*	R^2	*MAE*	*RMSE*	R^2
AGP	5.02	7.58	0.61	5.77	8.63	0.49
ATH	3.77	5.16	0.84	4.85	6.18	0.78
ARI	5.02	6.76	0.88	5.82	7.66	0.84
GEO	3.74	5.67	0.89	4.78	6.67	0.84
ELE	5.71	8.02	0.64	6.65	9	0.55
THR	3.64	5.81	0.59	4.32	6.59	0.47
KOR	5.10	6.66	0.70	6.68	8.57	0.50
LIO	5.31	7.78	0.80	6	8.61	0.75
LYK	4.14	5.89	0.87	4.81	6.89	0.82
MAR	5.32	8.02	0.87	6.07	8.98	0.84
SMY	6.52	9.94	0.82	8.74	11.83	0.74
PAT	10.72	15.24	0.69	14.88	19.56	0.49
PIR	11.05	15.05	0.64	14.92	18.96	0.43
PER	6.20	8.80	0.84	6.99	10.03	0.80
MEAN	**5.80**	**8.31**	**0.76**	**7.23**	**9.87**	**0.67**

Table S2. O_3 performance statistics (MAE, RMSE and R^2 results) for the FFNNs and MLR schemes

	O_3					
	FFNN			**MLR**		
	MAE	*RMSE*	R^2	*MAE*	*RMSE*	R^2
AGP	8.73	12.32	0.76	10.86	14.65	0.66
ATH	5.49	7.49	0.92	7.42	9.85	0.86
GEO	5.11	7.02	0.95	6.73	8.93	0.92
ELE	7.55	11.60	0.87	10.84	14.42	0.79
THR	8.10	10.73	0.80	10.72	13.85	0.66
KOR	8.12	11.98	0.80	13.45	16.97	0.60
LIO	6.70	9.08	0.92	7.87	10.83	0.88
LYK	6.61	9.63	0.92	7.84	11.36	0.89
MAR	5.94	8.53	0.94	7.19	10.27	0.92
SMY	7.02	11.23	0.91	10.49	13.81	0.86
PAT	7.71	11.08	0.72	11.41	15.53	0.44
PIR	5.32	7.48	0.83	8.33	10.95	0.63
PER	6.78	8.98	0.93	8.06	11	0.90
MEAN	**6.86**	**9.78**	**0.87**	**9.32**	**12.49**	**0.77**

Table S3. PM_{10} performance statistics (MAE, RMSE and R^2 results) for the FFNNs and MLR schemes

	PM_{10}					
	FFNN			**MLR**		
	MAE	*RMSE*	R^2	*MAE*	*RMSE*	R^2
AGP	4.33	6.14	0.96	5.96	8.64	0.93
ARI	6.07	16.65	0.84	7.42	12.22	0.90
ELE	5.15	8.72	0.91	7.05	10.88	0.86
THR	5.22	10.12	0.88	6.11	9.74	0.89
KOR	5.65	11.33	0.87	7.43	11.76	0.85
LIO	7.11	17.05	0.83	8.69	15.01	0.86
LYK	4.86	9.60	0.93	5.47	10.32	0.92
MAR	4.76	7.94	0.95	5.47	9.74	0.93
SMY	5.17	9.59	0.89	6.82	11.10	0.85
PIR	8.04	17.34	0.71	11.83	18.16	0.68
PER	6.45	12.54	0.88	6.67	10.58	0.92
MEAN	**5.71**	**11.55**	**0.88**	**7.17**	**11.65**	**0.87**

Table S4. $PM_{2.5}$ performance statistics (MAE, RMSE and R^2 results) for the FFNNs and MLR schemes

	$PM_{2.5}$					
	FFNN			**MLR**		
	MAE	*RMSE*	R^2	*MAE*	*RMSE*	R^2
AGP	3.49	4.92	0.74	3.94	5.66	0.65
ARI	6.06	10.23	0.75	6.48	10.52	0.73
ELE	5.33	8.35	0.59	5.83	8.98	0.53
THR	3.88	5.64	0.68	4.19	5.99	0.64
LYK	5.03	9.54	0.66	5.55	9.86	0.64
PIR	7.23	12.16	0.71	8.06	12.80	0.68
MEAN	**5.17**	**8.47**	**0.69**	**5.68**	**8.97**	**0.65**

Table S5. SO_2 performance statistics (MAE, RMSE and R^2 results) for the FFNNs and MLR schemes

	SO_2					
	FFNN			**MLR**		
	MAE	*RMSE*	R^2	*MAE*	*RMSE*	R^2
ATH	1.62	2.53	0.72	1.83	2.82	0.65
ARI	1.33	2.17	0.79	1.61	2.50	0.71
ELE	2.97	7	0.39	3.73	7.49	0.25
KOR	0.88	1.31	0.38	1.04	1.49	0.20
PAT	1.65	2.45	0.58	2.16	3.15	0.29
PIR	2.88	4.29	0.43	3.94	4.96	0.24
MEAN	**1.89**	**3.29**	**0.55**	**2.39**	**3.74**	**0.39**