

Electronic supplementary information

**Investigation into atmospheric PM_{2.5}-borne PAHs in Eastern cities of China:
concentration, source diagnosis and health risk assessment**

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Table S1. TEFs for individual PAHs.

PAHs	TEFs
Nap	0.001
Ace	0.001
Acey	0.001
Fl	0.001
Phe	0.001
An	0.01
Flu	0.001
Pyr	0.001
BaA	0.1
Chr	0.01
BbF	0.1
BkF	0.1
BaP	1
InP	0.1
DBA	1
BghiP	0.01

Table S2. PCA results of PAHs in PM_{2.5} at Beijing.

	Factor 1	Factor 2	Factor 3	Factor 4
BkF	.972			
BbF	.968			
Chr	.962			
BaP	.959			
BaA	.931			
An		.889		
Phe		.885		
Flu		.856		
Pyr		.782		
DBA				
BghiP			.977	
InP			.970	
Nap				.753
Fl				.719
Ace				
Acey				
Initial eigenvalue (%)	34.358	25.074	15.811	11.305
Source	Oil & coal combustion	Diesel & gasoline emissions	Oil source	Cook oven

Table S3. PCA results of PAHs in PM_{2.5} at Jinan.

	Factor 1	Factor 2
BaA	.957	
Chr	.948	
Phe	.929	
BaP	.925	
Pyr	.904	
Flu	.901	
BkF	.896	
BbF	.896	
An	.835	
Acey	.718	
DBA		
Fl		.811
BghiP		.771
Nap		.765
InP		.750
Ace		.736
Initial eigenvalue (%)	58.369	29.432
Source	Oil & coal combustion	Gasoline & diesel emission

Table S4. PCA results of PAHs in PM_{2.5} at Shanghai.

	Factor 1	Factor 2	Factor 3
Flu	.895		
Pyr	.894		
Phe	.841		
BbF	.827		
Chr	.821		
BaA	.813		
An	.810		
BkF	.800		
BaP	.797		
DBA		.866	
BghiP		.865	
InP		.862	
Nap			.914
Acey			.871
Fl			.824
Ace			
Initial eigenvalue (%)	43.253	22.636	17.980
Source	Oil & coal combustion		
	Road dust absorbing volatile vehicular	Vehicular emissions	Diesel emission