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Occurrence and risk assessment of polycyclic aromatic hydrocarbons in soil from the Tiefert coal mine district, Liaoning, China

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Supplementary Information:

Factor analysis scores following Varimax rotation Matrix^a for all PAHs (factor loadings >0.7 are selected)

variable	Component			
	1	2	3	4
Chry	.943*	-.014	.184	-.073
BaA	.925*	.234	.177	-.117
Pyr	.922*	.131	.273	-.164
BbF	.906*	.281	.210	.053
Flan	.821*	.305	.334	.113
Anth	.809*	.073	.508	.005
BkF	.755*	.357	-.306	.257
IP	.652	.391	-.047	.451
Acen	.286	.944*	.031	.086
DBA	.105	.930*	-.008	-.001
Flu	.199	.819*	.102	-.021
Naph	.169	.807*	.367	.262
Phen	.206	.021	.869*	.000
BaP	.416	.282	.744*	.052
BP	.091	.040	.061	-.721*
Acy	.091	.384	.396	.614
% of variance	37.869	22.354	13.003	10.945
% cumulative	37.869	60.224	73.226	84.171
Probable sources	Coal gangue	Coal combustion	Wood and diesel combustion	Vehicular

Notes: *Represent factor loading >0.7; Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; ^a, Rotation converged in 6 iterations.