

Supplementary Table 1. Elemental composition and PAH content in soot microparticles used in experiment.

Method of analysis	Soot microparticle components	Content (%)
Trace element energy-dispersive analysis (EDAX) data (elemental composition)	carbon (C)	67
	oxygen (O)	14
	calcium (Ca)	4
	potassium (K)	3.8
	chlorine (Cl)	2.6
	sulfur (S)	2.3
	silica (Si)	1.9
	aluminum (Al)	1.63
	magnesium (Mg)	1.5
	manganese (Mn)	0.4
	sodium (Na)	0.3
Gas chromatography–tandem mass spectrometry data (PAHs)	phenanthrene	11
	fluoranthene	12
	pyrene	10
	benzo[<i>a</i>]anthracene	9
	chrysene	10
	benzofluoranthenes	9
	benzopyrenes	13
	indeno[1,2,3- <i>c,d</i>]pyrene	10
	benzo[<i>ghi</i>]perylene	7