Location	Type	Year	Season	Size	Total dicarboxylic acids	Total oxocarboxylic acids	Total α-dicarbonyls	Major species
This study (day)	mountain	2014	summer	$PM_{2.5}$	893 ± 479	128 ± 88.9	24.4 ± 20.5	$C_2 > C_4 > C_3 > \omega C_2$
This study (night)	mountain	2014	summer	$PM_{2.5}$	892 ± 402	122 ± 73.6	25.9 ± 21.6	$C_2 > C_4 > C_3 > \omega C_2$
Mt. Tai, China[a]	mountain	2006	summer	TSP	1702 ± 1385	242 ± 210	68.3 ± 64.1	$C_2 > C_4 > C_3 > \omega C_2$
14 Chinese cities[b]	urban	2003	summer	$PM_{2.5}$	892 ± 457	36.7 ± 23.7	5.2 ± 4.1	$C_2 > Ph > C_4 > C_3$
Guangzhou, China[c]	urban	2007	summer	$PM_{2.5}$	523 ± 134	19.5 ± 9.6	5.1 ± 2.1	$C_2 > Ph > tPh > C_3$
Beijing, China[d]	urban	2006	autumn	$PM_{2.5}$	760 ± 369	44.7 ± 26.6	9.1 ± 4.9	$C_2 > Ph > C_4 > C_9$
Chennai, India[e]	urban	2007	summer	PM_{10}	503 ± 118	31.7 ± 11.2	7.1 ± 2.0	$C_2 > tPh > C_3 > C_9$
Raipur, India [f]	urban	2012–2013	winter	$PM_{2.1}$	1072	90.9	30.2	$C_2 > C_4 > C_9 > Ph$
Tokyo, Japan[g]	urban	1989	summer	TSP	726 ± 636	117 ± 95	46 ± 39	$C_2 > C_4 > C_3 > Pyr$
Sapporo, Japan[h]	urban	2005	summer	TSP	406	35	9.7	$C_2 > C_3 > C_4 > \omega C_2$
Leipzig, Germany[i]	urban	2003–2005	summer/winter	PM_{10}	175[l]			$C_2 > C_3 > C_5 > hC_4$
Zurich, Switzerland [j]	urban	2002	summer	TSP	66.9[l]			$C_2 > C_3 > hC_4 > C_4$
Houston, USA[k]	urban	2000	summer	$PM_{2.5}$	67.7[l]			$C_4 > C_3 > C_9 > C_5$