

The oxidative potential of particulate matter (PM) in different regions around the world and its relation to air pollution sources

Vahid Jalali Farahani¹, Abdulmalik Altuwayjiri^{1,6}, Milad Pirhadi², Vishal Verma³, Ario Alberto Ruprecht⁴, Evangelia Diapouli⁵, Konstantinos Eleftheriadis⁵, Constantinos Sioutas^{1*}

¹University of Southern California, Department of Civil and Environmental Engineering, Los Angeles, California, USA

²California Air Resources Board, Sacramento, California, USA

³University of Illinois at Urbana Champaign, Department of Civil and Environmental Engineering, Urbana, Illinois, USA

⁴International Society of Doctors for Environment (ISDE), Italy

⁵Environmental Radioactivity Laboratory, N.C.S.R. Demokritos, 15341 Attiki, Greece

⁶Majmaah University, Department of Civil and Environmental Engineering, Majmaah, Riyadh, Saudi Arabia

*Corresponding author:

Constantinos Sioutas, Sc.D.

3620 S. Vermont Ave. KAP210, Los Angeles, CA 90089

E-mail: sioutas@usc.edu

Telephone: 213-740-6134

Fax: 213-744-1426

Table S1. Comparison of PM mass fractions of selected components in the current study with the previous measurements in the literature at each location site.

| Study | PM Mass fraction ($\mu\text{g}/\text{mg PM}$) | | | | | | | | | | | |
|--------------------------------|---|--------|-----------------|--------------------|-----------------|--------|-------|-------|------|------|------|------|
| | EC | OC | NO_3^- | SO_4^{2-} | NH_4^+ | Ca | Al | Fe | Zn | Ba | Cu | Pb |
| Athens, Greece | | | | | | | | | | | | |
| Current study | 13.36 | 241.64 | 3.93 | 264.17 | 69.57 | 44.54 | 18.53 | 18.76 | 1.35 | 0.45 | 0.28 | 0.26 |
| Taghvaei et al. (2019) | 39.98 | 184.80 | 1.89 | 69.94 | -- | 14.22 | 9.71 | 11.45 | 1.32 | 3.50 | 1.16 | 0.77 |
| Diapouli et al. (2017) | 38.81 | 211.59 | 35.34 | 247.50 | 47.62 | 67.29 | 9.48 | 21.34 | 2.91 | 0.38 | 0.62 | 0.48 |
| Amato et al. (2016) | 29.45 | 247.57 | 15.72 | 262.47 | 85.70 | 15.90 | 8.18 | 10.18 | 0.90 | 0.63 | 0.20 | 0.25 |
| Beirut, Lebanon | | | | | | | | | | | | |
| Current study | 10.04 | 90.27 | 0.94 | 93.41 | 31.89 | 58.09 | 13.48 | 8.54 | 4.21 | 0.54 | 0.80 | 0.21 |
| Borgie et al. (2016) | -- | -- | 79.07 | 209.00 | 43.95 | 57.29 | 13.05 | 15.59 | 1.15 | 1.09 | 1.31 | 0.20 |
| Los Angeles, USA | | | | | | | | | | | | |
| Current study | 23.05 | 241.12 | 179.15 | 56.41 | 46.83 | 19.02 | 7.73 | 7.33 | 0.45 | 0.48 | 0.26 | 0.06 |
| Shirmohammadi et al. (2017) | 30.00 | 230.00 | -- | -- | -- | 4.09 | 3.85 | 10.41 | 0.45 | 0.59 | 0.58 | 0.05 |
| Habre et al. (2021) | 59.84 | 190.76 | 53.53 | -- | 24.80 | 3.80 | 3.56 | 5.88 | 0.44 | 0.38 | 0.26 | 0.10 |
| Milan, Italy | | | | | | | | | | | | |
| Current study | 28.05 | 217.76 | 224.75 | 40.29 | 91.05 | 10.75 | 5.42 | 5.97 | 0.62 | 0.21 | 0.24 | 0.29 |
| Amato et al. (2016) | 59.21 | 216.50 | 188.36 | 64.19 | 73.05 | 7.87 | 4.95 | 10.52 | 1.87 | 1.74 | 1.87 | 0.17 |
| Riyadh, Saudi Arabia | | | | | | | | | | | | |
| Current study - dust events | 6.71 | 34.62 | 20.73 | 37.37 | 2.67 | 134.40 | 58.54 | 39.45 | 0.22 | 0.43 | 0.08 | 0.05 |
| Current study - non-dust event | 23.00 | 76.55 | 40.45 | 77.97 | 8.33 | 160.76 | 40.05 | 28.17 | 2.16 | 0.54 | 0.22 | 0.19 |
| Alharbi et al. (2015) | -- | -- | 16.32 | 33.29 | 13.79 | 133.66 | 24.24 | 21.99 | 0.31 | 0.48 | 0.35 | 0.02 |

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