Loupa Glykeria

Position: Academic Staff
Rank: Associate professor
Laboratory: Atmospheric Pollution and of Pollution Control Engineering of Atmospheric Pollutants
Specialization: Indoor Air Quality
Education: B.Sc. (Magna Cum Laude), Ph.D.

Scientific Interests:
Indoor air quality; gaseous and particulate indoor air pollutants; indoor PM concentrations, size distributions, chemical composition; indoor and outdoor sources of atmospheric pollutants-deposition-indoor chemistry (heterogeneous and homogeneous reactions); building's air exchange rate; indoor micro-climatic conditions; noise; indoor air quality models; Effects of air pollutants on human health and on cultural heritage (risk assessment). Occupational safety and health.

Undergraduate classes: Indoor Environmental Quality; Occupational Safety and Health; Urban Air Quality Management; Laboratory classes of Atmospheric Pollution; Laboratory classes of Atmospheric Chemistry; Risk assessment of indoor air quality on health.

Relevant Research Projects:
1. Principal Investigator: "Indoor air pollution in historical churches of Cyprus" (ARESKE), Funding Agency: Research Promotion Foundation of Cyprus, (2002-2004).
2. Principal Investigator: “A model for the assessment of the safety and health at the workplace”, Funding Agency: General Secretariat for Research and Technology of Greece, (2004-2006).
3. Principal Investigator: "Thermopolis 2009: An airborne campaign over Athens, Greece, for the study of the urban heat island", Funding Agency: European Space Agency, (2009).
4. Coordinator: "Indoor air quality in three General Hospitals", Funding Agency: Postgraduate master program: “Environmental Engineering and Science” of the Department of Environmental Engineering, DUTH, (2011-2012).
5. Coordinator: "Indoor air quality in secondary education schools", Funding Agency: Postgraduate master program: {Environmental Engineering and Science” of the Department of Environmental Engineering, DUTH, (2012-2013).
6. Coordinator: "Indoor air quality in sports facilities", Funding Agency: Postgraduate master program: “Environmental Engineering and Science} of the Department of Environmental Engineering, DUTH, (2013-2014).
7. Coordinator: "Development of a contemporary model for evacuation of an underground metro tunnel with virtual reality projection for the public". Code number OPS (MIS) 5006334. Funding Agency: General Secretariat for Research and Technology of Greece, (15/3/2018-14/1/2020).

Examples of recent publications:
1. Loupa G, E. Charpantidou, E. Karageorgos, S. Rapsomanikis, "The chemistry of gaseous acids in medieval churches in Cyprus", Atmospheric Environment 41: 9018-9029 (2007).
2. Loupa G. and S. Rapsomanikis, "Air pollutant emission rates and concentrations in medieval churches", Journal of Atmospheric Chemistry, 60(2):169-187, DOI 10.1007/s10874-008-9116-z (2009).
3. Loupa G., E. Karageorgos and S. Rapsomanikis "Potential effects of particulate matter from combustion during services on human health and on works of art in medieval churches in Cyprus", Environmental Pollution, http://dx.doi.org/10.1016/j.envpol.2010.06.005 (2010).

4. Loupa G. "Case study: Health hazards of automotive repair mechanics: Thermal and lighting comfort, particulate matter and noise" Journal of Occupational and Environmental Hygiene 10(10): D135-D146. http://dx.doi.org/10.1080/15459624.2013.818222 (2013).
5. Rapsomanikis S., Trepekli A., Loupa G., Polyzou C. "Vertical energy and momentum fluxes in the centre of Athens, Greece, during a heatwave period (Thermopolis 2009 Campaign)". Boundary-Layer Meteorology, 1-16, doi: 10.1007/s10546-014-9979-2 (2014).
6. Zarogianni, A.M., Loupa G., Rapsomanikis S. "A comparison of fragrance ingredients in green and non-green detergents". Environmental Forensics 18:110-121 doi:10.1080/15275922.2016.1263902 (2017)
7. Loupa G., Polyzou C., Zarogianni A.M., Ouzounis K., Rapsomanikis S. "Indoor and outdoor elemental mercury: a comparison of three different cases." Environmental Monitoring and Assessment 189:72 doi:10.1007/s10661-017-5781-1 (2017)
8. Zarogianni AM, Loupa G, Rapsomanikis S Fragrances and Aerosol during Office Cleaning Aerosol and Air Quality Research doi:10.4209/aaqr.2017.08.0270 (2018)
9. Loupa G, Katikaridis A, Karali D, Rapsomanikis S. Mapping the noise in a Greek general hospital. Science of the Total Environment 2019; 646: 923-929.
10. Polyzou C, Loupa G, Trepekli A, Rapsomanikis S. Fluxes of gaseous elemental mercury on a Mediterranean coastal grassland. Atmosphere. 2019;10(9). doi:10.3390/atmos10090485.
11. Loupa G, Karali D, Rapsomanikis S. The trace of airborne particulate matter from smoking e-cigarette, tobacco heating system, conventional and hand-rolled cigarettes in a residential environment. Air Quality, Atmosphere & Health. 2019. doi:10.1007/s11869-019-00760-2.
12. Sakkas KM, Vagiokas N, Kallianiotis A, Loupa G, Concrete behaviour under elevated temperature. International Journal of Engineering Science Invention (IJESI), ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726, www.ijesi.org ||Volume 8 Issue 02 Series. I || Feb 2019 || PP 13-17.
13. Karali, D., Loupa, G., & Rapsomanikis, S. (2019). Origins of regulated semi-volatile PAHs and metals near an industrial area and a highway in the region of Alexandroupolis, Greece. Air Quality, Atmosphere & Health, 12(7), 767-774, doi:10.1007/s11869-019-00702-y.
14. Loupa, G. (2020). Influence of Noise on Patient Recovery. Current Pollution Reports 6: 1-7.
15. Loupa, G., Karali, D., & Rapsomanikis, S. (2019). Aerosol filtering efficiency of respiratory face masks used during the COVID-19 pandemic. medRxiv preprint doi: https://doi.org/10.1101/2020.07.16.20155119.this version posted July 21, 2020.
16. Karali, D., Loupa, G., & Rapsomanikis, S. (2020a). Nephelometer Sensitivities for the Determination of PM2.5 Mass Concentration in Ambient and Indoor Air. Aerosol and Air Quality Research, 20, doi:10.4209/aaqr.2020.04.0159.
17. Karali, D., Stavridis, A., Loupa, G., & Rapsomanikis, S. (2020b). Dispersion Effects of Particulate Lead (Pb) from the Stack of a Lead Battery Recycling Plant. Energies, 13(21), 5690.
18. Polyzou C, Loupa G, Rapsomanikis S. Concentrations of Gaseous Elemental Mercury in the Atmosphere of a Mediterranean Coastal Site in Greece. Adv Environ Eng Res 2021;2(2):19; doi:10.21926/aeer.2102007.
19. Loupa G, Karali D, Rapsomanikis S. Simple Measures to Improve the Environmental Quality in Gyms" has been accepted for publication in the Integrated Journal of Environmental Research [IJER] (27/4/2020).

Distinctions:

1. Ravilious Kate "Poor air degrades church artwork", Story from BBC NEWS: Published: 2006/10/04 12:12:16 GMT http://news.bbc.co.uk/1/hi/sci/tech/5406048.stm
2. Ravilious Kate "Churches may be more polluted than roads" Environmental Research Web, Oct 12, 2010, http://environmentalresearchweb.org/cws/article/news/44002

Contact details:

V. Sofias 12, Xanthi, Greece
tel: 25410 79314, Fax: 25410-79379
email: gloupa@env.duth.gr
LinkedIn: https://www.linkedin.com/profile/view?id=56849830&trk=nav_responsive_tab_profile