

Name: **Xavier Querol**

Nationality: **Spanish**

Current position

Since 2004, Research Professor at the Spanish Research Council. Since 2009 at the Institute of Environmental Assessment and Water Research, IDAEA-CSIC. Since 2012 Scientific Coordinator of the 23 centers of research on Natural Resources from CSIC.

Education

1990: PhD, Applied Geology, University of Barcelona, Spain

Main research activities

- Research on air quality, mostly source apportionment of pollutants in urban, industrial, traffic hotspot, rural, regional and remote areas.
- Air quality plans and testing of efficiency of air quality measures in urban areas.
- Research on the impact of natural pollution sources on air quality, African dust outbreaks, biogenic pollutants,....
- Health effects of air pollution

Main scientific responsibilities

Coordinator, PI and participant of national (Spain) and international (EC) projects; supervisor/co-supervisor of 27 PhD students on air pollution and other environmental issues. Scientific coordinator of 21 research centers on Natural Resources at CSIC. Scientific advisor for the EC, Spanish Government, Regional and local councils on air pollution. Coordinator of the LIFE+ AIRUSE project and different contracts with the Ministry of Spain and other regional and local Governments.

Awards and scientific achievements

- 2009 Environment Award of the Government of Catalonia
- 2013 Award Rey Jaime I for the Protection of the Environment.
- Since 2007, Vice-Chairman of the Scientific Bureau of EMEP-UN-ECE
- Participation in R & D projects: 31 national and 29 international competitive, 36 contracts or agreements for R & D.
- Patents: 5
- Publications: SCI (15/12/2016): 474 articles (225 in 2011-2016); Index h = 65 (Thomson Reuters Web of Science) and 85 (Google Scholar).
- Listed in the Essential Science Indicators of Thomson Reuters, on position 104 in the Geosciences rank.
- In 2014, 2015 and 2016 included in the list of Highly Cited Researchers. These represent some of world's leading scientific minds. Over three thousand researchers earned the distinction by writing the greatest numbers of reports officially designated by Essential Science Indicators as Highly Cited Papers—ranking among the top 1% most cited for their subject field and year of publication, earning them the mark of exceptional impact (<http://highlycited.com/>).

Selected publications

Querol X., et al. On the origin of the highest ozone episodes in Spain. *Science of Total Environment*. 572 (2016) 379–389.

Sunyer J. Esnaola M., **Querol X.** Association between Traffic-Related Air Pollution in Schools and Cognitive Development in Primary School Children: A Prospective Cohort Study. *PLoS Medicine* **12(3)**: e1001792.

Querol X., et al., 2001–2012 trends on air quality in Spain. *Science of the Total Environment*, **490**, 15 (2014), 957-969

Jordi A., Basterretxea G., Tovar-Sánchez A., Alastuey A., **Querol X.** Copper aerosols inhibit phytoplankton growth in the Mediterranean Sea, *PNAS*, 2012, **109**, 52, 21246–21249.

Querol X., et al. Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: Implications for air quality policy. *Atmos. Chem. Phys.*, **13**, 6185-6206.

Querol X., et al. African dust contributions to mean ambient PM10 mass-levels across the Mediterranean Basin. *Atmospheric Environment* **43**, 28, 2009, 4266-4277.