

Personal Information



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Education

ACADEMIC DEGREES

- **[2006] BSc degree in Physics**
Physics Department, University of Ioannina (Greece)
Ministry of Education, Hellenic Republic
- **[2009] MSc degree: Meteorology Climatology and Physics of the Atmospheric Environment**
Physics Department, University of Ioannina (Greece)
Ministry of Education, Hellenic Republic

Title of MSc Thesis: «Calculation of combined air quality indicators in the Attica region. The impact of atmospheric pollutants on human health»

- **[2013] PhD degree: Atmospheric Sciences and Environment**
Physics Department, University of Ioannina (Greece)
Ministry of Education, Hellenic Republic

Title of PhD Thesis: «PM₁₀ and PM_{2.5} aerosols in Europe: Local sources, atmospheric transportation, impacts in air quality»

SEMINARS – SUMMER SCHOOLS

- **[2008] Degree of Observer Meteorologist**
Hellenic Meteorological Service
Hellenic Air Force
- **[2009] On the Job Training (OJT) degree of observer meteorologist**
Hellenic Air Force
- **[2013] Summer School: Dynamics and Management of the Mediterranean**

Sea Environment

Technological Educational Institute of Ionian Islands, Department of Environmental Technology, 1/9/2013 – 11/9/2013, Zakynthos (Greece)

- **[2016] Seminar: Data Science with Python**
E-learning seminar on Python programming language
National and Kapodistrian University of Athens
November 2015 – February 2016
- **[2018] Seminar: «Professional Certificate Program in Data Science»**
E-learning seminar on R programming language
Harvard University
November 2018 – February 2019
Completed courses:
 - ✓ R basics
 - ✓ Visualization
 - ✓ Probability
 - ✓ Productivity Tools

Languages

- ❖ **English (Excellent)** :
 - I.E.L.T.S. (Academic) Certificate, University of Cambridge – Local Examinations Syndicate, September 2013 (Βαθμός 8.0 / 9.0)
 - First Certificate in English, University of Cambridge, June 1995
- ❖ **French (Moderate)** :
 - D.E.L.F. I
Diplôme d'études en langue française
Unites A1, A2, A3, A4
June 1996
 - Certificat de langue française
September 1996
- ❖ **Greek (Excellent)** :
 - Native Speaker

Computing Skills

- ✓ Programming skills in FORTRAN
- ✓ Programming skills in R
- ✓ Basic Programming skills in Python
- ✓ Experience in statistical data processing with statistical package SPSS (V18-V22)
- ✓ User of Grapher and Surfer visualisation packages
- ✓ Fluent in Microsoft Office (Excel, Word, PowerPoint) and Internet. ECDL modules 3 “Word processing”, 4 “Spreadsheets”, 7 “Web browsing and communication”

Working Experience

TEACHING EXPERIENCE

- ✓ **[16/10/2013-7/2/2014]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Food Technology, Argostoli (Greece), Teaching of the lesson: “Physics (Laboratory)”
- ✓ **[13/10/2014-13/2/2015]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Fluid Mechanics (Laboratory)” and “Air Pollution (Laboratory)”
- ✓ **[9/3/2015-10/7/2015]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Renewable Energy Sources 2 (Theory)” and “Meteorology - Climatology (Laboratory)”
- ✓ **[5/10/2015-12/2/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Fluid Mechanics (Laboratory)” and “Air Pollution (Laboratory)”
- ✓ **[4/11/2015-31/3/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Athens, Department of Energy Technology Engineering, Athens (Greece), Teaching of the lesson: “Physics (Laboratory)”
- ✓ **[1/3/2016-30/6/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Renewable Energy Sources 2 (Theory)”, “Meteorology - Climatology (Laboratory)” and “Renewable Energy Sources 1 (Laboratory)”

- ✓ **[11/2/2017-30/6/2017 & 1/9/2017-29/9/2017]: Higher Education Teaching Professional**, University of Ioannina, Department of Physics, Postgraduate program Atmospheric Sciences and Environment, Teaching of the lesson: “Renewable Energy Sources”
- ✓ **[10/10/2017-31/7/2018]: Higher Education Teaching Professional**, Hellenic Open University, Postgraduate program Waste Management, Teaching of the lesson: Air Pollution Management. Also supervision of two MSc theses.
- ✓ **[12/2/2018-30/6/2018 & 1/9/2018-30/9/2018]: Higher Education Teaching Professional**, University of Ioannina, Department of Physics, Postgraduate program Atmospheric Sciences and Environment, Teaching of the lesson: “Renewable Energy Sources”

RESEARCH EXPERIENCE

- ✓ **[2/8/2019-31/10/2019]:** Post doc researcher at the Institute for Environmental Research and Sustainable Development (IERSD) of the National Observatory of Athens. Program: Composing the chapter “Climate change and health” as part of the review of the environmental status in Greece. The work was performed for the National Centre of Environment and Sustainable Development
- ✓ **[1/2/2020-30/4/2020]:** Post doc researcher at the Institute for Environmental Research and Sustainable Development (IERSD) of the National Observatory of Athens. Program: Observatory of Air and Particulate Pollution over Greece
- ✓ **[1/7/2020-Today]:** Post doc researcher at the Institute for Environmental Research and Sustainable Development (IERSD) of the National Observatory of Athens. Program: National Network on Climate Change and its Impacts (CLIMPACT)

OTHER WORKING EXPERIENCE

- ✓ **[2/12/2008-2/9/2009]:** Observer Meteorologist, Hellenic Air Force, Preveza (Greece), The main duties were to observe, record and transmit meteorological data

Main Research Interests

- ✓ Atmospheric circulation and air quality
- ✓ Source apportionment of gaseous and particulate pollutants
- ✓ Air quality indicators and human exposure to air pollutants
- ✓ Long range and regional transport of gaseous and particulate pollutants with special emphasis on particles and their chemical composition
- ✓ Air mass trajectories including 2D & 3D air mass residence time modelling
- ✓ Biometeorology and thermal comfort indices

- ✓ Greenhouse gases – Climate change

List of publications

JOURNAL PUBLICATIONS

31 publications (28 as first author) – Average impact factor: 5.034 – Average number of authors: 3.1

1. **Dimitriou, K.**, Paschalidou, A.K., Kassomenos, P.A., 2013. Assessing air quality with regards to its effects on human health in the European Union through air quality indices. (Ecological Indicators, 27, 108-115) **[IF: 4.958]**
2. Kassomenos, P.A., **Dimitriou, K.**, Paschalidou, A.K., 2013. Human health damage caused by particulate matter PM(10) and ozone in urban environments: the case of Athens, Greece. (Environmental Monitoring and Assessment, 185 (8), 6933-6942) **[IF: 2.513]**
3. **Dimitriou, K.**, Kassomenos, P.A., 2013. The fine and coarse particulate matter at four major Mediterranean cities: Local and regional sources. (Theoretical and Applied Climatology, 114 (3-4), 375-391) **[IF: 3.179]**
4. **Dimitriou, K.**, Kassomenos, P.A., 2014. Local and regional sources of fine and coarse particulate matter based on traffic and background monitoring (Theoretical and Applied Climatology, 116 (3-4), 413-433) **[IF: 3.179]**
5. **Dimitriou, K.**, Kassomenos, P.A., 2014. Decomposing the profile of PM in two low polluted German cities – Mapping of air mass residence time, focusing on potential long range transport impacts (Environmental Pollution, 190, 91-100) **[IF: 8.071]**
6. **Dimitriou, K.**, Kassomenos, P.A., 2014. Indicators reflecting local and transboundary sources of PM_{2.5} and PM_{COARSE} in Rome – Impacts in air quality. (Atmospheric Environment, 96, 154-162) **[IF: 4.798]**
7. **Dimitriou, K.**, Kassomenos, P.A., 2014. A study on the reconstitution of daily PM₁₀ and PM_{2.5} levels in Paris with a multivariate linear regression model. (Atmospheric Environment, 98, 648-654) **[IF: 4.798]**
8. **Dimitriou, K.**, Kassomenos, P.A., 2015. Three year study of tropospheric ozone with back trajectories at a metropolitan and a medium scale urban area in Greece (Science of the Total Environment, 502, 493-501) **[IF: 7.963]**
9. Petrou, I., **Dimitriou, K.**, Kassomenos, P.A., 2015. Distinct atmospheric patterns and associations with acute heat induced mortality in five regions of England. (International Journal of Biometeorology, 59, 1413-1424) **[IF: 3.787]**

10. **Dimitriou, K.**, 2015. The dependence of PM size distribution from meteorology and local-regional contributions, in Valencia (Spain) – A CWT model approach. (Aerosol and Air Quality Research, 15, 1979-1989) **[IF: 3.063]**
11. **Dimitriou, K.**, Remoundaki, E., Mantas, E., Kassomenos, P.A., 2015. Spatial distribution of source areas of PM_{2.5} by Concentration Weighted Trajectory (CWT) model applied in PM_{2.5} concentration and composition data. (Atmospheric Environment, 116, 138-145) **[IF: 4.798]**
12. **Dimitriou, K.**, Mc-Gregor, G., Kassomenos, P.A., Paschalidou, A.K., 2016. Exploring winter mortality variability in five regions of England, using back trajectory analysis. (Earth Interactions, 20(1), 1-27) **[IF: 2.769]**
13. **Dimitriou, K.**, Kassomenos, P.A., 2016. Combining AOT, Angstrom Exponent and PM concentration data, with PSCF model, to distinguish fine and coarse aerosol intrusions in Southern France. (Atmospheric Research, 172-173, 74-82) **[IF: 5.369]**
14. **Dimitriou, K.**, 2016. Upgrading the estimation of daily PM₁₀ concentrations utilizing prediction variables reflecting atmospheric processes. (Aerosol and Air Quality Research, 16, 2245-2254) **[IF: 3.063]**
15. **Dimitriou, K.**, Kassomenos, P.A., 2017. The covariance of air quality conditions in six cities in Southern Germany - The role of meteorology. (Science of the Total Environment, 574, 1611-1621) **[IF: 7.963]**
16. **Dimitriou, K.**, Paschalidou, A.K., Kassomenos, P.A., 2017. Distinct synoptic patterns and air masses responsible for long-range desert dust transport and sea-spray in Palermo, Italy. (Theoretical and Applied Climatology, 130, 1123-1132) **[IF: 3.179]**
17. **Dimitriou, K.**, Kassomenos, P.A., 2017. Aerosol contributions at an urban background site in Eastern Mediterranean – Potential source regions of PAHs in PM₁₀ mass. (Science of the Total Environment, 598, 563-571) **[IF: 7.963]**
18. **Dimitriou, K.**, Kassomenos, P.A., 2017. Airborne heavy metals in two cities of North Rhine Westphalia – Performing inhalation cancer risk assessment in terms of atmospheric circulation. (Chemosphere, 186, 78-87) **[IF: 7.086]**
19. **Dimitriou, K.**, Kassomenos, P.A., 2018. The influence of specific atmospheric circulation types on PM₁₀-bound benzo(a)pyrene inhalation related lung cancer risk in Barcelona, Spain. (Environment International, 112, 107-114) **[IF: 9.621]**
20. **Dimitriou, K.**, Kassomenos, P.A., 2018. Day by day evolution of a vigorous two wave Saharan dust storm – Thermal and air quality impacts. (Atmosfera, 31(2), 105-124) **[IF: 1.128]**
21. **Dimitriou, K.**, Kassomenos, P.A., 2018. Quantifying daily contributions of source regions to PM concentrations in Marseille, based on the trails of incoming air masses. (Air Quality Atmosphere and Health, 11, 571–580) **[IF: 3.763]**

22. **Dimitriou, K.**, Kassomenos, P.A., 2018. A meteorological analysis of PM₁₀ episodes at a high altitude city and a low altitude city in central Greece – The impact of wood burning heating devices (Atmospheric Research, 214, 329–337) **[IF: 5.369]**
23. **Dimitriou, K.**, Kassomenos, P.A., 2019. Allocation of excessive cancer risk induced by benzene inhalation in 11 cities of Europe in atmospheric circulation regimes. (Atmospheric Environment, 201, 158–165) **[IF: 4.798]**
24. **Dimitriou, K.**, Kassomenos, P.A., 2019. Estimation of North African dust contribution on PM₁₀ episodes at four continental Greek cities. (Ecological Indicators, 106, 105530) **[IF: 4.958]**
25. **Dimitriou, K.**, Kassomenos, P.A., 2020. Background concentrations of benzene, potential long range transport influences and corresponding cancer risk in four cities of central Europe, in relation to air mass origination. (Journal of Environmental Management, 262, 110374) **[IF: 6.789]**
26. **Dimitriou, K.**, Liakakou, E., Lianou, M., Psiloglou, M., Kassomenos, P., Mihalopoulos, N., Gerasopoulos, E., 2020. Implementation of an aggregate index to elucidate the influence of atmospheric synoptic conditions on air quality in Athens, Greece. (Air Quality Atmosphere and Health, 13(4), 447-458) **[IF: 3.763]**
27. **Dimitriou, K.**, Grivas, G., Liakakou, E., Gerasopoulos, E., Mihalopoulos, N., 2021. Assessing the contribution of regional sources to urban air pollution by applying 3D-PSCF modeling. (Atmospheric Research, 248, 105187) **[IF: 5.369]**
28. Kaskaoutis, D.G., Grivas, G., Stavroulas, I., Liakakou, E., Dumka, U.C., **Dimitriou, K.**, Gerasopoulos, E., N. Mihalopoulos, N., 2021. In situ identification of aerosol types in Athens, Greece, based on long-term optical and on online chemical characterization. (Atmospheric Environment, 246, 118070) **[IF: 4.798]**
29. **Dimitriou, K.**, Mihalopoulos, N., Leeson, S.R., Twigg, M.M., 2021. Sources of PM_{2.5}-bound water soluble ions at EMEP's Auchencorth Moss (UK) supersite revealed by 3D-Concentration Weighted Trajectory (CWT) model. (Chemosphere, 274, 129979) **[IF: 7.086]**
30. **Dimitriou, K.**, Bougiatioti, A., Ramonet, M., Pierros, F., Michalopoulos, P., Liakakou, E., Solomos, S., Quehe, P-Y., Delmotte, M., Gerasopoulos, E., Kanakidou, M., Mihalopoulos, N., 2021. Greenhouse gases (CO₂ and CH₄) at an urban background site in Athens, Greece: Levels, sources and impact of atmospheric circulation. (Atmospheric Environment, 253, 118372) **[IF: 4.798]**
31. **Dimitriou, K.**, Tsagkaraki, M., Zarmas, P., Mihalopoulos, N., 2022. Impact of spatial and vertical distribution of air masses on PM₁₀ chemical components at the Eastern Mediterranean – A seasonal approach. (Atmospheric Research, 266, 105974) **[IF: 5.369]**

IF: Journal Impact Factor 2020 (Clarivate Analytics 2021)

INTERNATIONAL CONFERENCES

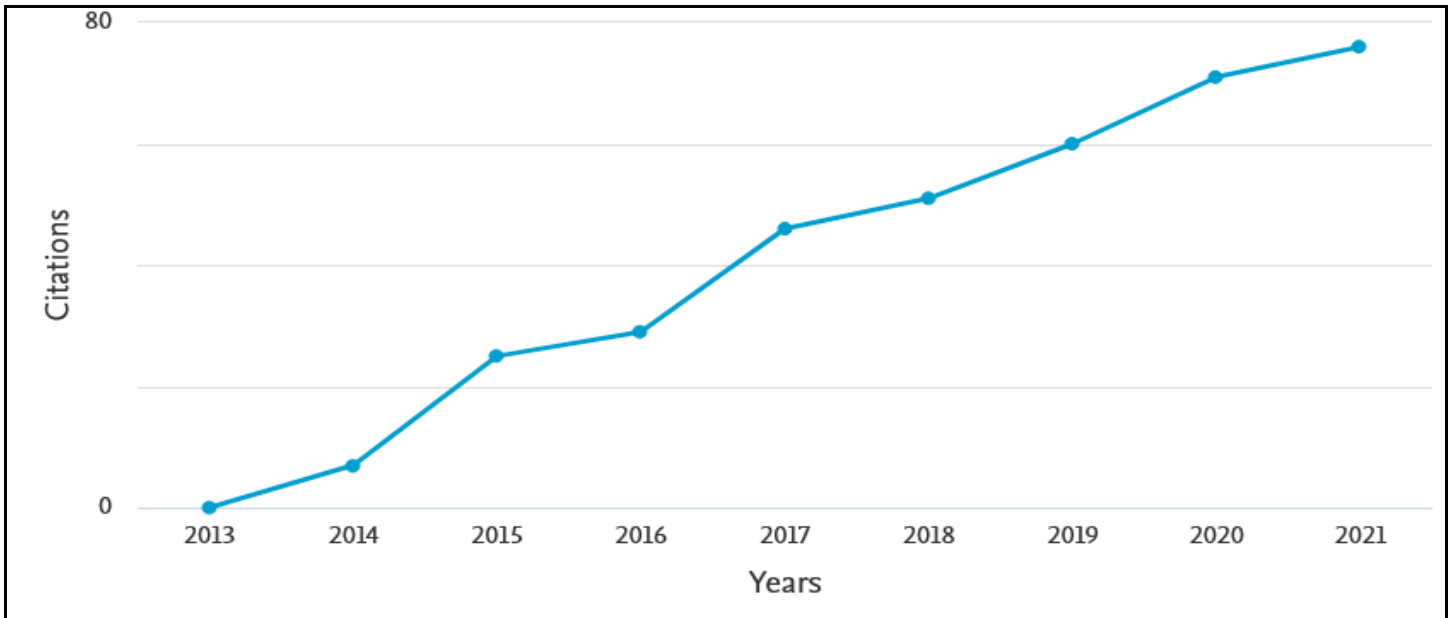
1. Kassomenos, P.A., **Dimitriou, K.**, Karakitsios, S.K., Sarigiannis, D.A., 2009. Indices to characterize human health damage from PM₁₀, Ozone in life cycle basis. Proceedings of the 11th International Conference on Environmental Science and Technology (CEST), pgs 568-575. Chania, Crete, Greece, 3 - 5 September 2009.
2. Mc-Gregor, G., **Dimitriou, K.**, Kassomenos, P.A., Paschalidou, A.K., 2016. Exploring the Meteorological Origins of Winter Mortality in England Using Back Trajectory Analysis. 7th Conference on Environment and Health, American Meteorological Society, New Orleans, 10 - 14 January 2016.
3. Mihalopoulos, N., Bougiatioti, A., Pierros, F., **Dimitriou, K.**, Quehe, P-Y., Delmotte, M., Ramonet, M., 2020. Greenhouse gases measurements at the urban environment of Athens, Greece. Integrated Carbon Observation System (ICOS) Online Science Conference, 15 - 17 September 2020.
4. Bougiatioti, A., **Dimitriou, K.**, Ramonet, M., Pierros, F., Michalopoulos, P., Liakakou, E., Solomos, S., Quehe, P-Y., Delmotte, M., Gerasopoulos, E., Kanakidou, M., Mihalopoulos, N., 2021. Greenhouse gases in the urban environment of Athens, trends and sources. 17th International Conference on Environmental Science and Technology (CEST), Athens, Greece, 1 - 4 September 2021.
5. Bougiatioti, A., Pierros, F., **Dimitriou, K.**, Quehe, P-Y., Delmotte, M., Ramonet, M., Mihalopoulos, N., 2021. Year-long greenhouse gases measurements at the urban environment of Athens, Greece. 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Ioannina, Greece, 26 – 29 September 2021.
6. **Dimitriou, K.**, Pikridas, M., Sciare, J., Mihalopoulos, N., 2021. The effect of spatial and altitudinal distribution of air parcels in the Eastern Mediterranean basin on PM₁₀ and PM₁ composition. 2nd International Conference “Climate Change in the Eastern Mediterranean & Middle East” Online Pre - Conference Workshops 11 – 12 October 2021.

NATIONAL CONFERENCES

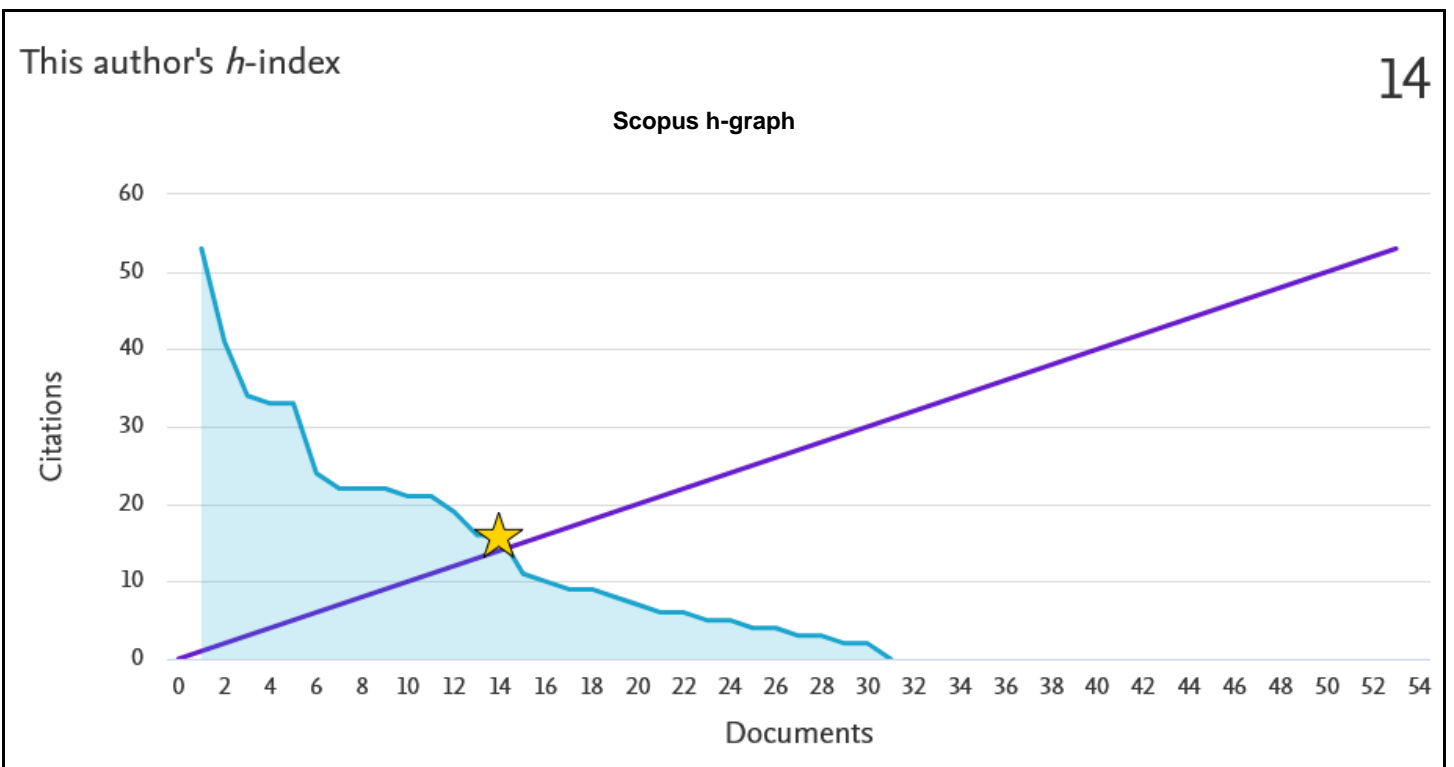
1. Kaskaoutis, D. G., Grivas, G., Stavroulas, I., Liakakou, E., **Dimitriou, K.**, Gerasopoulos, E., Mihalopoulos, N., 2020. Identification of key aerosol types in Athens based on long-term in situ optical and chemical properties. Second Scientific Conference PANACEA, Web Conferencing 29 September – 1 October 2020.

Citations

✓ h-index (Scopus): 14 [Total citations: 471] [Citations excluding self-citations of all authors: 376]



*Variance of citations excluding self-citations of all authors



Reviewer for international journals

1. Environmental Pollution
2. Atmospheric Pollution Research
3. Atmospheric Research
4. Atmospheric Environment
5. Science of the Total Environment
6. Aerosol and Air Quality Research
7. Chemosphere
8. Atmosphere
9. Atmósfera
10. Water Air and Soil Pollution
11. Journal of Environmental Research and Public Health
12. Environmental Pollutants and Bioavailability

Distinctions

1. **[2015]** Recognized reviewer in Atmospheric Pollution Research
2. **[2016]** Recognized reviewer in Atmospheric Research
3. **[2017]** Recognized reviewer in Atmospheric Environment
4. **[2017]** Outstanding reviewer in Environmental Pollution
5. **[2018]** Outstanding reviewer in Science of the Total Environment
6. **[2019]** Recognized reviewer in Chemosphere
7. **[2021]** Editorial board member for the MDPI Journal “Sustainability” (IF: 3.251)