

ATHANASIOS NENES

Contact information

Laboratory of Atmospheric Processes and their Impacts, EPFL/ENAC/IEE, GR C2 544 (Bâtiment GR), Station 2, CH-1015 Lausanne, Switzerland.

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Professional Preparation

Diploma	Chemical Engineering	1993	National Technical University of Athens, Greece
M.S.	Atmospheric Chemistry	1997	University of Miami
Ph.D.	Chemical Engineering	2003	California Institute of Technology

Appointments/Affiliations

2018-present	Professor, Ecole Polytechnique Fédérale de Lausanne, Switzerland
2021-present	Visiting professor, University of Patras, Greece
2021	Visiting professor, University of Toulon, France
2008-present	Affiliated Scientist, Foundation for Research and Technology, Greece
2018-present	Adjunct Professor, Georgia Institute of Technology, USA
2015-2018	Affiliated Scientist, National Observatory of Athens, Greece
2015-2016	Visiting Professor, California Institute of Technology; University of Athens, Greece; National Technical University of Athens, Greece
2011-2018	Professor, Georgia Institute of Technology, USA
2008-2011	Associate Professor, Georgia Institute of Technology, USA
2002-2008	Assistant Professor, Georgia Institute of Technology, USA

Areas of research interests

- Air Quality and Health Impacts of Airborne Pollutants
- Biogeochemical Cycling of Trace Nutrients
- Aerosol-Cloud-Climate Interactions
- Modeling of Aerosols and Clouds
- Aerosol and Cloud Instrumentation
- Development of advanced sensitivity and data mining tools for air quality and climate models.

Honors/Recognitions

Web of Science Highly Cited Researcher (2023, 2022, 2021, 2020); Copernicus Medal, Copernicus Gesellschaft e.V., 2022; American Association for Aerosol Research Fellow, 2021; Academia Europaea Member, 2021; American Geophysical Union Fellow, 2020; ISI US EPA Scientific and Technological Achievement Award, 2019; Group Achievement Award, NASA, 2019; European Research Council, Consolidator Grant, 2016; Johnson Faculty Fellow, Georgia Institute of Technology (GIT), 2016; Faces of Inclusive Excellence, GIT, 2015; Cullen-Peck Fellow, GIT, 2014; Dreyfus Foundation Postdoctoral Mentor in Environmental Chemistry, 2014; Vaughan Lectureship in Chemical Engineering, California Institute of Technology, 2014; Atmospheric Sciences Section Ascent Award, American Geophysical Union, 2012; Outstanding Faculty Research Author, GIT, 2012; Kenneth T. Whitby Award, American Association for Aerosol Research, 2011; Georgia Power Faculty Scholar, GIT, 2011; Group Achievement Award, NASA, 2009, 2010; Dean's Distinguished Lecture, College of Engineering, Columbia University, 2010; Henry G. Houghton Award, American Meteorological Society, 2009; Sigma Xi Young Faculty Award, GIT, 2007; Sheldon K Friedlander Award, American Association for Aerosol Research, 2005; Blanchard-Milliken Young Faculty Fellowship, GIT, 2004; NASA New Investigator Program Award, 2004; National Science Foundation CAREER Award, 2004; ACCESS Colloquium Participation, 2003; Dean's Prize, Rosenstiel School of Marine and Atmospheric Sciences, 1998; Best Diploma Thesis Award in Chemical Engineering, Chamber of Engineers (Greece), 1996.

Committees - Service

2019-2023	President of Atmospheric Sciences Section, European Geosciences Union.
2023-pres.	Deputy President of Atmospheric Sciences Section, European Geosciences Union.
2018-2019	Deputy President of Atmospheric Sciences Section, European Geosciences Union.
2021-pre.	International Universities Climate Alliance, EPFL representative.
2021-pres.	Hellenic Institute of Advanced Studies, Member

2020 European Research Council - Consolidator Grants Panel member (PE10)
 2019-pres. Swiss National Science Foundation, Ambizione Grants panel member.
 2020-2021 Swiss Academy of Sciences, Geosciences Research Infrastructure Roadmap, Atmospheric Sciences co-Chair.
 2018-2020 Science Board, Greek Institute for Research and Development
 2017-2020 Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP) – Working Group 38 (Atmospheric input of chemicals to the ocean)
 2014-2016 National Research Council, Committee on the Future of Atmospheric Chemistry Research, National Academy of Sciences
 2012-2016 Secretary of Aerosols & Clouds, Atmospheric Sciences, American Geophysical Union.
 2018-2021 PANhellenic infrastructure for Atmospheric Composition and climate change (PANACEA) Scientific Advisory Board
 2014-2018 ETH BACCHUS Scientific Advisory Board
 2006-2011 Pacific Northwest National Lab Aerosol-Climate Initiative External Advisory Board
 2007-2011 DOE Atmospheric Radiation Measurement Climate Research Facility Science Board
 2013-2016 Research Institute Evaluator, General Secretariat for Research and Technology, Greece
 2013-pres. Committee on Nucleation and Atmospheric Aerosols, Member.
 2014-2017 Board of Directors, American Association for Aerosol Research
 2004-2019 Editor, Atmospheric Chemistry and Physics
 2022-pres. Conference co-Chair, European Geosciences Union General Assembly
 2018-2022 Conference Organization Committee, 2022 International Aerosol Conference
 2022-2023 Conference Organization Committee, 2023 Goldschmidt Conference
 2014 Conference Chair, American Association for Aerosol Research Annual Conference
 2011 Conference Chair, International Aerosol Modeling Algorithms (IAMA) Conference
 2013 Conference co-Chair, International Aerosol Modeling Algorithms (IAMA) Conference
 2011-2015 Conference Organization Committee, American Association for Aerosol Research
 2009 Student Liaison Chair, American Association for Aerosol Research
 2009 Tutorial Chair, American Association for Aerosol Research
 2010 Education Outreach Chair, American Association for Aerosol Research
 2006-2009 Student Liaison Committee, American Association for Aerosol Research
 2007-2010 Education Outreach Committee, American Association for Aerosol Research

Books/Book chapters/Reports:

National Academies of Sciences, Engineering, and Medicine (2016) *The Future of Atmospheric Chemistry Research: Remembering Yesterday, Understanding Today, Anticipating Tomorrow*. Washington, DC: The National Academies Press. DOI: 10.17226/235730

Nenes, A., Murray, B., Bougiatioti, A. (2014) Mineral Dust and Its Microphysical Interactions with Clouds, In Knippertz, P., and Stuut, J.B., *Mineral Dust: A Key Player in the Earth System*, pp. 287-325, Springer, ISBN 978-94-017-8977-6

Kanakidou, M., Myriokefalitakis, S., Papadimitriou, V.C., Nenes, A. (2020), Aerosol impacts on atmospheric chemistry and composition of deposition, In Dulac, F., and Sauvage, S., *Atmospheric Chemistry and its Impacts in the Mediterranean Region*, Springer

Eugster, W., Baumgartner, L.P., Bachmann, O., Baltensperger, U., Dèzes, P., Dubois, N., Foubert, A., Heitzler, M., Henggeler, K., Hetényi, G., Hurni, L., Müntener, O., Nenes, A., Reymond, C., Rössli, C., Rothacher, M., Schaub, M., Steinbacher, M., Vogel, H. and RoTaGeo, team (2021). Geosciences Roadmap for Research Infrastructures 2025–2028 by the Swiss Geosciences Community. Swiss Academy of Sciences (SCNAT), 10.5281/zenodo.4588881

Refereed Publications – Published/In press (Google Scholar citations: 35666 h-index: 97)

1. Yang, Y., Battaglia, M., Robinson, E., DeCarlo, P., Edwards, K., Fang, T., Kapur, S., Shiraiwa, M., Cesler-Maloney, M., Simpson, W., Campbell, J., Nenes, A., Mao, J., Weber, R. (2024) Indoor - Outdoor Oxidative Potential of PM_{2.5} in Wintertime Fairbanks, Alaska: Impact of Air Infiltration and Indoor Activities, *Environmental Science & Technology*, in press
2. Yang, Y., Battaglia, M., Mohan, M., Robinson, E., DeCarlo, P., Edwards, K., Fang, T., Kapur, S., Shiraiwa, M., Cesler-Maloney, M., Simpson, W., Campbell, J., Nenes, A., Mao, J., Weber, R. (2024)

- Assessing the Oxidative Potential of Outdoor PM_{2.5} in Wintertime Fairbanks, Alaska, ACS ES&T Air, in press
3. Simpson, W.R., Mao, J., et al. (2024) Overview of the Alaskan Layered Pollution and Chemical Analysis (ALPACA) Field Experiment, *Env.Sci.Tech – Air*, in press
 4. Liu, J., Ye, Z., Christensen, J.H., Dong, S., Geels, C., Brandt, J., Nenes, A., Yuan, Y., Im, U. (2024) Positive role of anthropogenic emission control in reducing future PM_{2.5} concentrations and oxidative potential across different regions of China, *Sci. Tot. Env.*, in press
 5. Milousis, A., Tsimpidi, A.P., Tost, H., Pandis, S.N., Nenes, A., Kiedler-Scharr, A., Karydis, V.A. (2024) Implementation of the ISORROPIA-lite aerosol thermodynamics model into the EMAC chemistry climate model: Implications for aerosol composition and acidity, *Geosci.Mod.Dev.*, in press
 6. Yang, S., Beko, G., Wargocki, P., Zhang, M., Merizak, M., Nenes, A., Williams, J., Licina, D. (2023) Physiology or psychology: What drives human emissions of carbon dioxide and ammonia? *Env.Sci.Tech.*, Article ASAP, <https://doi.org/10.1021/acs.est.3c07659>
 7. Patoulias, D., Florou, K., Pandis, S.N., Nenes, A. (2024) New particle formation events can reduce cloud droplets in boundary layer clouds at the continental scale, *Geoph.Res.Let.*, 51, e2023GL106182. <https://doi.org/10.1029/2023GL106182>
 8. Violaki, K., Castro-Jiménez, J., Nenes, A., Sempere, R., and Panagiotopoulos, C. (2024) Spatial gradients of organophosphate Esters Flame Retardants and plasticizers in airborne particles over the Mediterranean Sea, *Chemosphere*, 348, 140746, <https://doi.org/10.1016/j.chemosphere.2023.140746>
 9. Roudsari, G., Lbadaoui-Darvas, M., Weli, A., Nenes, A., Laaksonen, A. (2024) Molecular scale mechanism of deposition ice nucleation on Silver Iodide, *Environ. Sci.: Atmos.*, 4, 243 - 251 <https://doi.org/10.1039/D3EA00140G>
 10. Mylonaki, M., Gini, M., Georgopoulou, M., Piloud, M., Chalvatzaki, E., Solomos, S., Diapouli, E., Giannakaki, E., Lazaridis, M., Pandis, S., Nenes, A., Eleftheriadis, K., Papayannis, A. (2024) Wildfire and African dust aerosol oxidative potential, exposure and dose in the human respiratory tract, *Sci.Tot.Env.*, 913, 169683, <https://doi.org/10.1016/j.scitotenv.2023.169683>
 11. Vasilakopoulou, C.N., Matrali, A., Skyllakou, K., Georgopoulou, M., Aktypis, A., Florou, K., Kaltsonoudis, C., Siouti, E., Kostenidou, E., Błaziak, A., Nenes, A., Papagiannis, S., Eleftheriadis, K., Patoulias, D., Kioutsoukis, I., and Spyros N. Pandis (2023) Rapid transformation of wildfire emissions to harmful background aerosol, *npj Clim. Atmos. Sci.*, 6(218), <https://doi.org/10.1038/s41612-023-00544-7>
 12. Iseli, A.N., Pohla, M.O., Glas, I., Gaggioli, E., Martínez Barragán, P., David, S.C., Schaub, A., Luo, B., Klein, L.K., Bluvshsteinc, N., Violaki, K., Motos, G., Hugentobler, W., Nenes, A., Krieger, U.K., Peter, T., Kohn, T., and Stertz, S. (2023) The neuraminidase activity of influenza A virus determines the strain-specific sensitivity to neutralization by respiratory mucus, *Journal of Virology*, 97(10), <https://doi.org/10.1128/jvi.01271-23>
 13. Motos, G., Freitas, G., Georgakaki, P., Wieder, J., Aas, W., Lunder, C., Krejci, R., Pasquier, J.T., Henneberger, J., David, R.O., Ritter, C., Mohr, C., Zieger, P., Nenes, A. (2023) Aerosol and dynamical contributions to cloud droplet formation in Arctic low-level clouds, *Atmos.Chem.Phys.*, 23, 13941–13956
 14. Howes, C., Saide, P.E., Coe, H., Dobracki, A.N., Freitag, S., Haywood, J.M., Howell, S.G., Gupta, S., Uin, J., Kacarab, M., Kuang, C., Leung, L.R., Nenes, A., Redemann, J., Sedlacek, A.J., Thornhill, K.L., Wong, J.P.S., Wood, R., Wu, H., Zhang, Y., Zhang, J., Zuidema, P. (2023) Biomass-burning smoke properties and its interactions with marine stratocumulus clouds in WRF-CAM5 and southeastern Atlantic field campaigns, *Atmos.Chem.Phys.*, 23, 13911–13940
 15. Li, G., Wilbourn, E.K., Cheng, Z., Wieder, J., Fagerson, A., Pasquier, J.T., Henneberger, J., Motos, G., Traversi, R., Brooks, S.D., Mazzola, M., China, S., Nenes, A., Lohmann, U., Hiranuma, N., and Kanji, Z.A. (2023) Physicochemical Characterization and Source Apportionment of Arctic Ice Nucleating Particles Observed in Ny-Ålesund in Autumn 2019, *Atmos.Chem.Phys.*, 23, 10489–10516, <https://doi.org/10.5194/acp-23-10489-2023>
 16. Kakavas, S., Pandis, S., and Nenes A. (2023) Effects of Secondary Organic Aerosol Water on fine PM levels and composition over US, *Atmos.Chem.Phys.*, 23, 13555–13564, <https://doi.org/10.5194/acp-23-13555-2023>
 17. Methymaki, G., Bossioli, E., Boucouvala, D., Nenes, A., Tombrou., M. (2023) Brown Carbon Absorption in the Mediterranean Basin from local and long-range transported biomass burning air masses, *Atmos.Environ.*, 306, 119822, <https://doi.org/10.1016/j.atmosenv.2023.119822>

18. David, S., Vadas, O., Glas, I., Schaub, A., Luo, B., D'angelo, G., Montoya, J., Bluvshstein, N., Hugentobler, W., Klein, L., Motos, G., Pohl, M., Violaki, K., Nenes, A., Krieger, U., Stertz, S., Peter, T., and Kohn, T. (2023) Inactivation mechanisms of Influenza A virus under pH conditions encountered in aerosol particles as revealed by whole-virus HDX-MS, *mSphere*, <https://doi.org/10.1128/msphere.00226-23>
19. Billault-Roux, A., Georgakaki, P., Gehring, J., Jaffeux, L., Schwarzenboeck, A., Coutris, P., Nenes, A. and Berne, A. (2023) Distinct secondary ice production processes observed in radar Doppler spectra: insights from a case study, *Atmos.Chem.Phys.*, 23, 10207–10234, <https://doi.org/10.5194/acp-23-10207-2023>
20. Papadopoulos, N. et al. (2023) Addressing synergies between chemical and biological pollutants at schools - the “SynAir-G” hypothesis, *Allergy*, <https://doi.org/10.1111/all.15857>
21. Shahpoury, P., Lelieveld, S., Johannessen, C., Arangio, A., Berkemeier, T., Celso, V., Dabek-Zlotorzynska, E., Harner, T., Lammel, G., Nenes, A. (2023) Aerosol acidity, ligand complexation, and soluble metals influence the oxidative potential of fine particulate matter in urban environments, *Sci.Tot.EnvIRON.*, <https://doi.org/10.1016/j.scitotenv.2023.167405>
22. Lbadaoui-Darvas, M., Nenes, A., and Laaksonen, A. (2023) Deposition freezing, pore condensation freezing and adsorption: three processes, one description? *Atmos.Chem.Phys.*, 23, 10057–10074, <https://doi.org/10.5194/acp-23-10057-2023>
23. Florou, K., Kodros, J.K., Paglione, M., Jorga, S., Squizzato, S., Masiol, M., Uruci, P., Nenes, A., Pandis, S.N. (2023) Characterization and dark oxidation of the emissions from a pellet stove, *Environ. Sci.: Atmos.*, <https://doi.org/10.1039/D3EA00070B>
24. Yazdani, A., Takahama, S., Kodros, J.H., Paglione, M., Masiol, M., Squizzato, S., Florou, K., Kaltsonoudis, C., Jorga, S.D., Pandis, S.N., and Nenes, A. (2023) Chemical evolution of primary and secondary biomass burning aerosols during daytime and nighttime, *Atmos.Chem.Phys.*, 23, 7461–7477, <https://doi.org/10.5194/acp-23-7461-2023>
25. Kahn, R.A., Andrews, E., Brock, C.A., Chin, M., Feingold, G., Gettelman, A., Levy, R.C., Murphy, D.M., Nenes, A., Pierce, J.R., Popp, T., Redemann, J., Sayer, A.M., da Silva, A., Sogacheva, L., and Stier, P. (2023) Reducing Aerosol Forcing Uncertainty By Combining Models with Satellite and Within-the-Atmosphere Observations: A Three-Way Street, *Rev.Geoph.*, 61, e2022RG000796, <https://doi.org/10.1029/2022RG000796>
26. Wei, Y., Nenes, A., Gao, J., Liang, W., Liang, D., Shi, G., Feng, Y., Russell, A.G. (2023) Abundant nitrogen oxide and weakly acidic environment synergistically promote daytime particulate nitrate pollution, *J.Haz.Mat.*, 456, 131655, <https://doi.org/10.1016/j.jhazmat.2023.131655>
27. Lenhardt, E.D., Gao, L., Redemann, J., Xu, F., Burton, S.P., Cairns, B., Chang, I., Ferrare, R.A., Hostetler, C.A., Saide, P.E., Howes, C., Shinozuka, Y., Stamnes, S., Kacarab, M., Dobracki, A., Wong, J., Freitag, S., Nenes, A. (2023) Use of Lidar Aerosol Extinction and Backscatter Coefficients to Estimate Cloud Condensation Nuclei (CCN) Concentrations in the Southeast Atlantic, *Atmos. Meas. Tech.*, 16, 2037–2054, <https://doi.org/10.5194/amt-16-2037-2023>
28. Reid, J.S., et al. (2023) The coupling between tropical meteorology, aerosol science, convection and the energy budget during the Clouds, Aerosol Monsoon Processes Philippines Experiment (CAMP2Ex), *BAMS*, <https://doi.org/10.1175/BAMS-D-21-0285.1>
29. Chatziparaschos, M., Daskalakis, N., Myriokefalitakis, S., Kalivitis, N., Nenes, A., Gonçalves Ageitos, M., Costa-Surós, M., Pérez García-Pando, C., Zanoli, M., Vrekoussis, M., and Kanakidou, M. (2023) Role of K-feldspar and quartz in global ice nucleation by mineral dust in mixed-phase clouds, *Atmos.Chem.Phys.*, 23, 1785–1801, <https://doi.org/10.5194/acp-23-1785-2023>, 2023
30. Sanchez K.J., Painemal, D., Brown, M.D., Crosbie, E.C., Gallo, F., Hair, J.W., Hostetler, C.A., Jordan, C.E., Robinson, C.E., Scarino, A.J., Shingler, T.J., Shook, M.A., Thornhill, K.L., Wiggins, E.B., Winstead, E.L., Ziemba, L.D., Chambers, S., Williams, A., Humphries, R.S., Keywood, M.D., Ward, J.P., Cravigan, L., McRobert, I.M., Flynn, C., Kulkarni, G.R., Russell, L.M., Roberts, G.C., McFarquhar, G.M., Nenes, A., Woods, S.F., Reid, J.S., Small-Griswold, J., Brooks, S., Kirschler, S., Voigt, C., Wang, J., Delene, D.J., Quinn, P.K., and Moore R.H. (2023) Multi-campaign ship and aircraft observations of marine cloud condensation nuclei and droplet concentrations, *Scientific Data*, 10, 471, <https://doi.org/10.1038/s41597-023-02372-z>
31. Luo, B., Schaub, A., Glas, I., Klein, L.K., David, S.C., Bluvshstein, N., Violaki, K., Motos, G., Pohl, M.O., Hugentobler, W., Nenes, A., Krieger, U.K., Stertz, S., Peter, T., and Kohn, T. (2022) Expiratory

- Aerosol pH: The Overlooked Driver of Airborne Virus Inactivation, *Env.Sci.Tech.*, <https://doi.org/10.1021/acs.est.2c05777>
32. Foskinis, R., Nenes, A., Papayannis, A., Georgakaki, P., Kokkalis, P., Eleftheriadis, E., Komppula, M., Vratolis, S., Soupiona, O., Gini, M., Vakkari, V., Tombrou, M., Bossioli, E. (2022) Towards reliable retrievals of cloud droplet number for non-precipitating planetary boundary layer clouds and their susceptibility to aerosol, *Frontiers In Remote Sensing*, <https://doi.org/10.3389/frsen.2022.958207>
 33. Pasquier, J.T. et al. (2022) The Ny-Ålesund Aerosol Cloud Experiment (NASCENT): Overview and First Results, *Bull. Amer. Met. Soc.*, E2533–E2558, <https://doi.org/10.1175/BAMS-D-21-0034.1>
 34. Kodros, J.K., Kaltsonoudis, C., Paglione, M., Florou, K., Jorga, S., Vasilakopoulou, C., Cirtog, M., Cazaunau, M., Picquet-Varrault, B., Nenes, A., Pandis, S.N. (2022) Secondary aerosol formation during the dark oxidation of biomass burning emissions, *Environmental Science: Atmospheres*, **2**, 1221-1236, <https://doi.org/10.1039/D2EA00031H>
 35. Klein, L.K., Luo B.P., Bluvshstein, N., Krieger, U.K., Schaub, A., Glas, I., David, S.C., Violaki, K., Motos, G., Pohl, M.O., Hugentobler, W., Nenes, A., Stertz, S., Peter, T., Kohn, T. (2022) Expiratory aerosol pH is determined by indoor room trace gases and particle size, *Proc.Nat.Acad.*, 119 (39) e2212140119, <https://doi.org/10.1073/pnas.2212140119>
 36. Paraskevopoulou, D., Bougiatioti, A., Zarmas, P., Tsagkaraki, M., Nenes, A., Mihalopoulos, N. (2022) Impact of COVID-19 lockdown on Oxidative potential of particulate matter: Case of Athens (Greece), *Toxics*, 10(6): 280, doi: 10.3390/toxics10060280
 37. Dang, C., Segal-Rozenhaimer, M., Che, H., Zhang, L., Formenti, P., Taylor, J., Dobracki, A., Purdue, S., Wong, P.S., Nenes, A., Sedlacek, A., Coe, H., Redemann, J., Zuidema, P., and J. Haywood (2022) Biomass burning and marine aerosol processing over the southeast Atlantic Ocean: A TEM single particle analysis, *Atmos.Chem.Phys.*, **22**, 9389–9412, <https://doi.org/10.5194/acp-22-9389-2022>
 38. Gao, J., Yu, H., Shi, G., Zhang, Z., Wei, Y., Tian, X., Feng, Y., Russell, A.G., and Nenes, A. (2022) Targeting atmospheric oxidants can better reduce sulfate aerosol in China: H₂O₂ aqueous oxidation pathway dominates sulfate formation in haze, *Env.Sci.Tech.*, **56** (15), 10608–10618, <https://doi.org/10.1021/acs.est.2c01739>
 39. Chen, Y., Wang, Y., Nenes, A., Wild, O., Song, S., Hu, D., Liu, D., He, J., Hildebrandt Ruiz, L., Apte, J.S., Gunthe, S., Liu, P. (2022) Ammonium Chloride Associated Aerosol Liquid Water Enhances Haze in Delhi, India, *Env.Sci.Tech.*, **56**, 11, 7163–7173, <https://doi.org/10.1021/acs.est.2c00650>
 40. Arangio, A.M., Shahpoury, P., Dabek-Zlotorzynska, E., Nenes, A. (2022) Seasonal aerosol acidity, liquid water content and its impacts on fine urban aerosol in SE Canada, *Atmosphere*, **13**(7), 1012; <https://doi.org/10.3390/atmos13071012>
 41. Karalis, M., Sotiropoulou, G., Abel, S.J., Bossioli, E., Georgakaki, P., Methymaki, G., Nenes, A., Tombrou, M. (2022) Effects of secondary ice processes on a stratocumulus to cumulus transition during a cold-air outbreak, *Atmos.Res.*, **277**, 106302, <https://doi.org/10.1016/j.atmosres.2022.106302>
 42. Campbell, J., Battaglia, M., Dingilian, K., Cesler-Maloney, M., St.Clair, J.M., Hanisco T.F., Robinson, E., DeCarlo, P., Simpson, W., Nenes, A., Weber, R.J., Mao, J. (2022) Source and Chemistry of Hydroxymethanesulfonate (HMS) in Fairbanks, Alaska, *Env.Sci.Tech.*, **56**, 12, 7657–7667, <https://doi.org/10.1021/acs.est.2c00410>
 43. Myriokefalitakis, S., Bergas-Massó, E., Gonçalves-Ageitos, M., Pérez García-Pando, C., van Noije, T., Le Sager, P., Ito, A., Athanasopoulou, E., Nenes, A., Kanakidou, M., Krol, M. C., and Gerasopoulos, E. (2022) Multiphase processes in the EC-Earth Earth System model and their relevance to the atmospheric oxalate, sulfate, and iron cycles, *Geosci. Model Dev*, **15**, 3079–3120, <https://doi.org/10.5194/gmd-15-3079-2022>
 44. Violaki, K., Tsiodra, I., Nenes, A., Tsagaraki, M., Kouvarakis, G., Florou, K., Panagiotopoulos, C., Ingall, E., Weber, R., Mihalopoulos, N. (2022) Water soluble reactive Phosphate (SRP) in East Mediterranean aerosol: the importance of dust and biomass burning, *Science of the Total Environment*, **830**, <https://doi.org/10.1016/j.scitotenv.2022.154263>
 45. Kakavas, S., Pandis, S.N., and Nenes, A. (2022) ISORROPIA-lite: A comprehensive atmospheric aerosol thermodynamics module for Earth System Models, *Tellus B*, **74**, pp.1–23, <http://doi.org/10.16993/tellusb.33>
 46. Georgakaki, P., Sotiropoulou, G., Vignon, E., Billault-Roux, A.C., Berne, A., and Nenes, A. (2022) Secondary ice production processes in wintertime alpine mixed-phase clouds, *Atmos.Chem.Phys.*, **22**, 1965–1988, <https://doi.org/10.5194/acp-22-1965-2022>

47. Lbadaoui-Darvas, M., Takahama, S., and Nenes, A. (2021) Molecular scale description of interfacial mass transfer in phase separated aqueous secondary organic aerosol, *Atmos.Chem.Phys.*, **21**, 17687–17714
48. Violaki, K., Nenes, A., Tsagaraki, M., Paglione, M., Jacquet, S., Sempéré, R., Panagiotopoulos, C. (2021) Bioaerosols and dust are the dominant sources of organic P in atmospheric particles, *npj Clim.Atmos.Sci.*, **4:63**, <https://doi.org/10.1038/s41612-021-00215-5>
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350. Katoshevski, D., Nenes, A., Seinfeld, J.H. (1999) A Study of Processes that Govern the Maintenance of Aerosols in the Marine Boundary Layer, *J. Aeros. Sci.*, **30**, 503-532
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Refereed Publications – In review

1. Zografou, O., Gini, M., Fetfatzis, P., Granakis, K., Foskinis, R., Manousakas, M. I., Tsopelas, F., Diapouli, E., Dovrou, E., Vasilakopoulou, C. N., Papayannis, A., Pandis, S. N., Nenes, A., and Eleftheriadis, K., High Altitude Aerosol Chemical Characterization and Source Identification: Insights from the CALISHTO Campaign, in review
2. Foskinis, R., Motos, G., Gini, M., Zografou, O., Gao, K., Vratolis, S., Granakis, K., Vakkari, V., Violaki, K., Aktypis, A., Kaltsonoudis, C., Pandis, S., Shi, Z., Kommpula, M., Eleftheriadis, K., Papayannis, A., and Nenes, A., Drivers of Droplet Formation in East Mediterranean Orographic Clouds, in review

3. Rocchi, A., von Jackowski, A., Welti, A., Li, G., Kanji, Z.A., Nenes, A., Povazhnyy, V., Engel, A. and Dall'Osto, M., Distinct sea-spray aerosols production in contrasting Russian Arctic Ocean regions, in review
4. Gao, K., Vogel, F., Foskinis, R., Vratolis, S., Granakis, K., Billault-Roux, A., Georgakaki P., Berne, A., Eleftheriadis, K., Papagiannis, A., Möhler, O., Nenes, A., Aerosol characteristics and primary ice formation in the Eastern Mediterranean: from source apportionment, atmospheric processing to parameterization, in review
5. Sotiropoulou, G., Lewinschal, A., Phillips, V., Patade, S., Ekman, A.M.L., Nenes, A., Sensitivity of Arctic clouds to ice microphysical processes in the NorESM2 climate model, *J. Climate*, in review
6. Tsiotra, I., Grivas, G., Bougiatioti, A., Parinos, C., Paraskevopoulou, D., Oikonomou, K., Tavernaraki, K., Papoutsidaki, K., Tsagkaraki, M., Kozonaki, F., Nenes, A., Mihalopoulos, N., Source characterization of particle-bound polycyclic aromatic hydrocarbons (PAHs), oxygenated PAHs (OPAHs) and their associated long-term health risks for a major European city: role of domestic wood burning, COVID-lockdown and summer wildfires, in review
7. Ricard, L., Falasca, F., Runge, J., Nenes, A., netEC: an emergent constraint on Climate Sensitivity based on network analysis, in review
8. Chatziparaschos, M., Myriokefalitakis, S., Daskalakis, N., Kalivitis, N., Nenes, A., Gonçalves Ageitos, M., Costa-Surós, M., García-Pando, C.P., Vrekoussis, M. and Kanakidou, M., Global distribution of Primary Ice Nucleating Particles in immersion freezing from organic aerosols and mineral dust, in review
9. Foskinis, R., Kokkalis, P., Gini, M.I., Diapouli, E., Vratolis, S., Granakis, K., Kommpula, M., Vakkari, V., Nenes, A., Papayannis, A., and Eleftheriadis, K., On the relation between the planetary boundary layer height and the air pollutants monitored over Athens, Greece., in review
10. Georgakaki, P., and Nenes, A., RaFSIP: Parameterizing ice multiplication in models using a machine learning approach, in review
11. Roy, A., Goel, A., Sharma, S., Nenes, A., Takahama, S., Revisiting Indian Air Quality Guideline after two decades: Challenges, recommendations and implementable framework for air quality monitoring, in review
12. Georgakaki, P., Billault-Roux, A.C., Foskinis, R., Gao, K., Sotiropoulou, G., Gini, M., Takahama, S., Eleftheriadis, K., Papayannis, A., Berne, A., Nenes, A., Unraveling secondary ice production in winter orographic clouds through a synergy of in-situ observations, remote sensing and modeling, in review
13. Campbell, J., Battaglia Jr., M., Dingilian, K., Celsler-Maloney, M., Simpson, W., Robinson, E., DeCarlo, P., Temime-Rousse, B., D'Anna, B., Dibb, J., Nenes, A., Weber, R., Mao, J., Atmospheric particle neutralization and enhanced aqueous aerosol formation driven by extreme cold, in review
14. Liu, J., Im, U., Christensen, J.H., Ye, Z., Yuan, Y., Dong, S., Geels, C., Nenes, A., Brandt, J., Impact of Meteorology and Aerosol Sources on PM_{2.5} and Oxidative Potential Variability and Levels in China, in review
15. Foskinis, R., Gao, K., Gini, M., Diapouli, E., Vratolis, S., Granakis, K., Zografou, O., Kokkalis, P., Kommpula, M., Vakkari, V., Eleftheriadis, K., Nenes, A., and Papayannis, A., The influence of the planetary boundary layer on the atmospheric state at an orographic site at the Eastern Mediterranean, in review
16. Dingilian, K., Hebert, E., Battaglia, M., Campbell, J., Cessler-Maloney, M., Simpson, W., St. Clair, J.M., Dibb, J., Temime-Roussel, B., D'Anna, B., Moon, A., Alexander, B., Nenes, A., Mao, J., Weber, R.J., Hydroxymethanesulfonate and Sulfur (IV) in Fairbanks Winter During the ALPACA Study, in review
17. Shahpoury, P., Lelieveld, S., Srivastava, D., Baccarini, A., Mastin, J., Berkemeier, T., Celoz, V., Dabek-Zlotorzynska, E., Harner, T., Lammel, G., Nenes, A., Aerosol acidity and ligand complexation influence the seasonal changes in solubility of transition metals and oxidative potential of fine ambient particulate matter, in review
18. Schaub, A., Luo, B., David, S.C., Glas, I., Klein, L.V., Costa, L., Terrettaz, C., Bluvshstein, N., Motos, G., Violaki, K., Pohl, M., Hugentobler, W., Nenes, A., Stertz, S., Krieger, U.K., Peter, T., Kohn, T., Salt-mediated inactivation of influenza A virus in 1- μ l droplets exhibits exponential dependence on NaCl molality, in review
19. Neuberger, A., Decesari, S., Aktypis, A., Andersen, H., Baumgardner, D., Bianchi, F., Busetto, M., Cai, J., Cermak, J., Dipu, S., Ekman, A., Fuzzi, S., Gramlich, Y., Hadden, D., Haslett, S.L., Heikkinen, L., Joutsensaari, J., Kaltsonoudis, C., Kangasluoma, J., Lupi, A., Marinoni, A., Matralli, A., Mattsson, F., Mohr, C., Nenes, A., Paglione, M., Pandis, S.N., Patel, A., Riipinen, I., Rinaldi, M., Steimer, S.S.,

- Stolzenburg, D., Sulo, J., Vasilakopoulou, C., Zieger, P., From molecules to droplets: The Fog and Aerosol InteRAction Research Italy (FAIRARI) 2021/22 campaign, in review
20. Skyllakou, K., Korras-Carraca, M.B., Matsoukas, C., Hatzianastassiou, N., Pandis, S.N., Nenes, A., Predicted Concentrations and Optical Properties of Brown Carbon from Biomass Burning over Europe
 21. Thomas, M.A., Wyser, K., Wang, S., Chatziparaschos, M., Georgakaki, P., Costa-Surós, M., Gonçalves Ageitos, M., Kanakidou, M., García-Pando, C.P., Nenes, A., van Noije, T., Le Sager, P., and Devasthale, A., Recent improvements and maximum covariance analysis of aerosol and cloud properties in the EC-Earth3-AerChem model, in review
 22. Georgopoulou, M.P., Macias Rodriguez, J.C., Yegen, C.H., Kaltsonoudis, C., Cazaunau, M., Vasilakopoulou, C.N., Matrali, A., Seitanidi, K., Aktypis, A., Nenes, A. Buissot, C., Gratien, A., Berge, A., Pangui, E., Al Marj, E., Gerard, L., Varrault, B. P., Lanone, S., Coll, P., and Pandis, S.N., A coupled atmospheric simulation chamber system for the production of realistic aerosols and preclinical model exposure, in review

Other Publications:

Roberts, G., and Nenes, A., "Stream-Wise Thermal Gradient Cloud Condensation Nuclei Chamber.", US Patent No. 7,656,510 (issued 2 February, 2010).

Postdocs mentored: Nicholas Meskhidze (GIT; 2003-2006); Rafaella Sotiropoulou (GIT; 2005-2009); Vlassis Karydis (GIT; 2009-2011); Alexandra Tsimpidi (GIT; 2009-2011); Tomi Raatikainen (GIT; 2010-2012); Aikaterini (Katerina) Bougiatioti (GIT; 2013-2014); Kalliopi Violaki (GIT; 2014-2015); Samantha Waters (GIT; 2014-2016); Mary Kacarab (GIT; 2016-2018); Pui Shan (Jenny) Wong (GIT; 2015-2019); Mauro Masiol (FORTH; 2018-2019); Marco Paglione (FORTH; 2018-2019); Stefania Squizzato (FORTH; 2018-2019); Georgia Sotiropoulou (EPFL; 2018-2020, FORTH; 2021-2023); Jack Kodros (FORTH; 2018-2021); Michael Battaglia (GIT; 2019-2022); Andrea Arangio (EPFL; 2020-2022); Kalliopi Violaki (EPFL; 2019-); Ghislain Motos (EPFL; 2020-); Maria Lbdaoui-Darvas (EPFL; 2020-); Andrea Baccarini (EPFL; 2022-); Kunfeng Gao (EPFL; 2023-); Eemeli Holopainen (FORTH; 2023-); Carolina Molina (FORTH; 2023-); Kaori Kawana (FORTH; 2023-); Paraskevi Georgakaki (EPFL; 2024-); Romanos Foskinis (EPFL; 2024-)

PhD students mentored: Fountoukis, Christos (GIT; 2007); Lance, Sara (GIT; 2007); Asa-Awuku, Akua-Asabea (GIT; 2008); Hsieh, Wei-Chun (GIT; 2009); Padro, Luz-Tereza (GIT; 2009); Barahona, Donifan (GIT; 2010); Kumar, Prashant (GIT; 2011); Moore, Richard (GIT; 2011); Lathem, Terry (GIT; 2012); Capps, Shannon (GIT; 2012); Morales Betancourt, Ricardo (GIT; 2013); Cerully, Kate (GIT; 2013); Liu, Peng (GIT; 2015); Lin, Jack (GIT; 2016); Sullivan, Sylvia (GIT; 2017); Vasilakos, Petros (GIT; 2018); Arnaldo Negron-Marty (GIT; 2019); Irene Tsiodra (FORTH; 2023); Paraskevi Georgakaki (EPFL; 2019-2023); Romanos Foskinis (FORTH; 2022-2023); Lucile Ricard (EPFL; 2020-); Maria Georgopoulou (FORTH; 2021-); Giannis Chaniotis (FORTH; 2022-); Berkay Dönmez (EPFL, 2023-); Zohreh Sheadei (EPFL, 2023-)

MSc students mentored: Williams, Robyn (GIT; 2005); Sheyko, Benjamin (GIT; 2014); Purdue, Sara (GIT; 2016); Forrister, Haviland (GIT; 2017); Shi, Tianyu (GIT; 2018); Haralabia Baliaka (FORTH; 2020-2021); Todd Harris (EPFL; 2021); Ali Wasseem (EPFL; 2023-)

Invited Seminars and Talks

Indian Aerosol Science and Technology Association, Monthly seminar series, January 29, 2024

ESA/JAXA EARTHCARE Pre-Launch Science & Cal/Val Workshop, ESA ESRIN, Frascati, November 13, 2023

Department of Atmospheric Science, Aarhus University, Roskilde, Denmark, November 7, 2023

iMIRACLI Summer School Lecturer, Patras, Greece, September 20, 2023

Air Quality Research Division Seminar, Environment Canada, July 13, 2023

Summer School Lecturer on Atmospheric Aerosols and Clouds, Hellenic Association for Aerosol Research, Pylos, Greece, June 12, 2023

Global Health Summit 2023 (Panelist), Geneva, Switzerland, 26 May, 2023

2nd Harmonia (International network for harmonisation of atmospheric aerosol retrievals from ground based photometers) MC and WG Meeting, Davos, Switzerland, 9 May, 2023

PAIGE Workshop: Aerosol-cloud interaction in the Arctic climate system (Invited Speaker), Venice, Italy, April 13, 2023

Copernicus Academy EO4GEO and MAPP workshop, March 31, 2023

U.Oslo/Met Norway Joint Seminar, February 9, 2023
 INP Virtual Colloquium, December 8, 2022
 Keynote talk, International Aerosol Conference, Athens, Greece, September 9, 2022
 Tutorial on Aerosol-Cloud interactions, International Aerosol Conference, Athens, Greece, September 5, 2022
 Interdisciplinary Lecture, COSPAR 2022, Athens, Greece, July 19, 2022
 Inaugural Symposium of the Hellenic Institute for Advanced Studies, Athens, Greece, July 8th, 2022
 Foundation for Research and Technology, Hellas, Heraklion, Greece, June 14, 2022
 Keynote Speaker, 2022 Chemistry Physics and Biology of Colloids and Interfaces, Eger, Hungary, June 9, 2022
 Plenary Speaker, 13th Panhellenic Scientific Conference of Chemical Engineering, Patras, Greece, June 2, 2022
 Plenary Speaker, 10th National Conference of the Italian Aerosol Society, PM2022, Bologna, Italy, 19 May, 2022.
 Copernicus Medal Lecture, European Geosciences Union General Assembly, Vienna, Austria, May 25, 2022
 Laboratory of Environmental Chemistry, Paul Scherer Institute, Villingen, Switzerland, May 10, 2022
 KASTOM project workshop, Thessaloniki Greece, March 23, 2022
 Meteorological Colloquium, Department of Meteorology, Karlsruhe Institute of Technology, Germany, February 1, 2022
 AGU Annual Assembly, 17 December, 2021
 Niarhos Foundation Workshop on “Environmental challenges: Pollution and Ecology”, 4 November, 2021
 Διαδικτυακή εκδήλωση με θέμα «Η σημασία της ποιότητας του εσωτερικού αέρα στην αντιμετώπιση της COVID-19», Ελληνική Εταιρία Έρευνας Αερολυμάτων και ΕΛΙΝΥΑΕ - Συμμαχία για την Ελλάδα, 2 November, 2021
 Mediterranean Institute of Oceanography, Marseille, France, September 16, 2021
 16th IGAC Science Conference, China Working group, September 16, 2021
 Institute of Environmental Physics and Remote Sensing, University of Bremen, Germany, June 18, 2021
 Panel Member, Swiss Medical Weekly, Indoor Air and COVID Transmission, May 10, 2021
 Short Course “European Research Council Funding Opportunities”, EGU General Assembly, April 20, 2021
 Department of Chemical Engineering, University of Patras, Patras, Greece, December 19, 2020
 American Geophysical Union, San Francisco, December 9, 2020
 FORCeS winter school at Tjörn, Norway, November 5, 2020
 iMIRACLI Summer School, University of Oxford, UK, September 15, 2020
 Plenary Lecture, Aerosol Acidity and Secondary Particles Workshop, Nankai University, China, December 6, 2019
 Plenary Lecture, Annual Assembly of the PANhellenic infrastructure for Atmospheric Composition and climate chAnge (PANACEA), Heraklion, Crete, September 23, 2019
 Institute of Atmospheric Sciences and Climate, National Research Council, Bologna, Italy, July 2, 2019
 Inaugural Lecture, Ecole Polytechnique federale de Lausanne, Switzerland, June 18, 2019
 Summer School Lecturer on Atmospheric Aerosols and Clouds, Hellenic Association for Aerosol Research, Pylos, Greece, June 12, 2019
 Atmospheric Acidity Workshop, US EPA- Research Triangle Park, Maryland, USA, May 31, 2019
 Atmospheric Chemistry Group, Paul Scherer Institute, March 27, 2019
 Quantifying & Reducing Uncertainty in Earth System Model projections, Leeds University, UK, January 9, 2019
 Invited talk, EuroScience Open Forum, Toulouse, France, July 13, 2018
 Keynote talk, Gordon Research Conference on Biogenic Hydrocarbons and the Atmosphere, Les Diablerets, Switzerland, June 10, 2018
 Summer School Lecturer on Atmospheric Aerosols and Clouds, Hellenic Association for Aerosol Research, Pylos, Greece, June 8, 2018
 Dow Chemical Company Keynote Address, 39th Annual ChEGSA Symposium, Carnegie Mellon University, Pittsburgh, PA, 26 October, 2017
 Environmental Science & Engineering, Harvard University, Boston, MA, 15 September, 2017
 Department of Chemistry, University of Crete, Heraklion, Greece, 19 July, 2017
 Plenary Lecture, 28th International Lidar and Radar Conference, Bucharest, Romania, 26 June 2017
 Department of Environmental Engineering, Ecole Polytechnique Federale de Lausanne, Switzerland, 24 June 2017
 National Observatory of Athens, Palea Penteli, Greece, 8 June 2017
 Summer School Lecturer on Atmospheric Aerosols and Clouds, Hellenic Association for Aerosol Research, Pylos, Greece, May 24, 2017
 GESAMP Workshop on the impacts of changing Atmospheric and Oceanic Acidity, Norwich, UK, February 27, 2017
 Meteorological Institute, Stockholm University, Sweden, January 12, 2017
 Institute for Atmospheric and Climate Science, ETH Zurich, January 9, 2017

Tutorial Speaker, American Association for Aerosol Research, Portland, OR, October 25, 2016.
 35th ITM on Air Pollution Modelling and Applications, Chania, Greece, October 3, 2016
 Department of Physics, Aristotelian University of Thessaloniki, Greece, June 2, 2016
 Hellenic Association for Aerosol Research, Annual Assembly, Pylos, Greece, May 16, 2016
 European Geophysical Union, General Assembly, Vienna, Austria, April 20, 2016
 WMO workshop on reactive nitrogen deposition, York, UK, April 14, 2016
 ESA-ACTRIS General Assembly, Rome, Italy, March 2, 2016
 University of West Macedonia, Department of Env. Engineering, Kozani, Greece, January 19, 2016
 Stockholm University, Department of Meteorology, Stockholm, Sweden, January 12, 2016
 University of Patras, Department of Chemical Engineering, Patras, Greece, December 15, 2015
 University of Athens, Department of Physics, Athens, Greece, December 11, 2015
 Secondary Ice Multiplication Symposium, Manchester, UK, November 3, 2015
 American Association of Aerosol Research, Annual Assembly, Minneapolis, MN, October 14, 2015
 Department of Chemical Engineering, University of California, Berkeley, CA, October 13, 2015
 Nutrient Cycling on the Modern and Ancient Earth, Plenary Speaker, University of Leeds, July 7, 2015
 National Academy of Sciences, Sackler Symposium on Improving Our Fundamental Understanding of the
 Role of Aerosol-Cloud Interactions in the Climate System, Irvine, CA, June 23, 2015
 ENV-VISION Conference, Crystal City, VA, May 14, 2015
 Climate@Emory Day of Scholarship, Atlanta, GA, April 24, 2015
 NOSA-FAAR Annual Assembly Plenary Speaker, Kuopio, Finland, March 12, 2015.
 Electrical Power Research Institute, Env.Advisory Program Mtg, Charleston, SC, February 10, 2015.
 Institute for Atmospheric and Climate Science in Zurich, Switzerland, January 14, 2015.
 European Research Council, Brussels, Belgium, November 18, 2014.
 Initial Training for Atmospheric Remote Sensing (ITARS Summer School), September 12, 2014.
 Department of Chemical Engineering, National Technical University of Athens, Greece, June 10, 2014.
 Plenary Talk, 12th International Conference on Meteorology, Climatology and Atmospheric Physics,
 Heraklion, Crete, Greece, May 29, 2014.
 Vaughan Lectureship in Chemical Engineering, Division of Chemistry and Chemical Engineering, California
 Institute of Technology, Pasadena, CA, May 8, 2014
 Physical Chemistry seminar, Department of Chemistry, University of Georgia, Athens, GA, April 8, 2014
 American Meteorological Society, Annual Assembly, Atlanta, GA, February 7, 2014
 NOAA Geophysical Research Laboratory, Princeton University, Princeton, NJ, December 5, 2013
 NSF Workshop on the hydrometeorological implications of extensive urbanization, Department of Civil and
 Environmental Engineering, Princeton University, December 3, 2013
 Tutorial Speaker, American Association for Aerosol Research, Portland, OR, September 30, 2013
 Initial Training for Atmospheric Remote Sensing (ITARS Summer School), September 24, 2013.
 Goldschmidt Conference, Florence, Italy, August 30, 2013.
 Pacific Northwest National Laboratory, Global Change Frontiers Seminar, Richland, WA, August 1, 2013
 NASA Headquarters, Brownbag Seminar Series, Washington DC, March 21, 2013.
 Environmental Sciences PhD program, Ball State University, Muncie, IN, March 12, 2013.
 IGAC Open Science Conference "Atmospheric Chemistry in the Anthropocene", Beijing, China, September
 20, 2012
 Gordon Research Conference on Biogenic Hydrocarbons & the Atmosphere, Lewiston, ME, June 27, 2012.
 Alpine Summer School on Climate, Aerosols and the Cryosphere, Valsavarenche, Italy, June 20-29, 2012.
 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries,
 Corfu, Greece, April 30, 2012.
 84th Meeting of the Petroleum Environmental Research Forum, Bartlesville, OK, November 10, 2011.
 International Aerosol Modeling Algorithms Conference, Davis, CA, December 2, 2011.
 American Chemical Society, Fall SERMACS Assembly, Richmond, VI, October 26, 2011.
 American Institute of Chemical Engineers, Annual Assembly, Minneapolis, MN, October 17, 2011.
 Tutorial Speaker, American Association for Aerosol Research, Orlando, FL, October 4, 2011.
 American Chemical Society, Fall General Assembly, Denver, CO, August 30, 2011.
 Goldschmidt Conference, Prague Czech Republic, August 16, 2011.
 Karlsruhe Institute of Technology, Germany, August 12, 2011.
 Department of Physics, University of Athens, Greece, June 23, 2011.

Demokritos National Center of Scientific Research, Athens, Greece, June 24, 2011.
Plenary Lecture, DOE ASR Annual Science Meeting, San Antonio, TX, March 31, 2011.
American Geophysical Union, Fall Meeting, San Francisco, CA, December 15, 2010.
Department of Physics, University of Oxford, United Kingdom, November 23, 2010.
Institute of Climate and Atmospheric Science, University of Leeds, United Kingdom, November 17, 2010.
School of the Environment, University of Leeds, United Kingdom, November 15, 2010.
Tutorial Speaker, American Association for Aerosol Research, Portland, OR, October 25, 2010.
Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, September 17, 2010.
Telluride Workshop on Cloud Physics, Telluride, CO, 2010.
Jet Propulsion Laboratory, Pasadena, CA, May 6, 2010.
Dean's Distinguished Lecture, College of Engineering, Columbia University, April 20, 2010.
Forum on Aerosols and Climate, Yale University, March 26, 2010.
American Meteorological Society, January 19, 2010.
International Aerosol Modeling Algorithms Conference, Davis, CA, December 12, 2009.
International Aerosol Modeling Algorithms Conference, Davis, CA, December 11, 2009.
University of Kuopio, Finland, Department of Physics, December 3, 2009.
University of Copenhagen, Denmark, Department of Chemistry, November 25, 2009.
National Academy of Engineering, Japan-America Frontiers of Engineering, Irvine, 11 November, 2009.
American Association for Aerosol Research, Minneapolis, MN, October 25, 2009.
Georgia Air Policy Symposium, Atlanta, GA, August 4, 2009.
Goldschmidt Conference, Davos Switzerland, 26 June 2009.
Georgia Institute of Technology, School of Chemical and Biomolecular Engineering, 2 April, 2009.
University of Manchester, UK, School of Earth, Atmospheric & Environmental Sciences, 8 January, 2009.
Columbia University, Department of Chemical Engineering, 25 November, 2008.
3rd International Dust Workshop, Leipzig, Germany, 17 September, 2008.
Telluride Summer Research Workshop on Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact, Telluride, CO, 5 August, 2008.
American Physical Society, Annual Meeting, New Orleans, LA, 13 March 2008.
Department of Chemical Engineering, Bucknell University, Lewisburgh, PA, March 25, 2008.
NASA Ames Research Center, Moffett Field, CA, February 27, 2008.
Atmospheric Sciences Center Seminar, UC-Berkeley, Berkeley, CA, February 26, 2008.
American Association for the Advancement of Science, Annual Meeting, Boston, MA, 2008.
NASA CERES Workshop on aerosol-cloud interactions, Victoria, BC, Canada, November 14, 2007.
American Geophysical Union, Fall Meeting, San Francisco, CA, December 12, 2007.
International Aerosol Modeling Algorithms Conference, Davis, CA, December, 2007
Tutorial Speaker, American Association for Aerosol Research, Reno, NV, September, 2007.
Gordon Research Conference in Atmospheric Chemistry, Big Sky, MT, August 2007
School of Earth and Atmospheric Sciences, Georgia Institute of Technology, GA, August, 2007
Gordon Research Conference in Radiation in Climate, Colby Sawyer College, NH, August 2007
Institute of Chemical Engineering-University of Patras, Patras, Greece, June 2007
NASA Goddard Institute of Space Studies, New York, May, 2007.
INTROP/ESF meeting, Heraklion, Crete, Greece, April 2007
American Chemical Society, Annual Meeting, Chicago, IL, 2007
Atmospheric Sciences Seminar, Massachusetts Institute of Technology, Boston, MA, December 18, 2006.
Southeastern Regional Meeting of the American Chemical Society, Augusta, GA, November 1, 2006.
Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, PA, October 8, 2006.
Annual Congress of the Mexican Chemical Society, Mexico City, Mexico, September 28, 2006.
Tutorial Speaker, International Aerosol Conference, Saint Paul, MN, September 10, 2006.
2nd International Conference On Global Warming And The Next Ice Age And Aerosol Workshop On Climate Prediction Uncertainties, Santa Fe, NM, July 20, 2006.
NASA-Goddard Space Flight Center, Greenbelt, MD, April 10, 2006.
Universidad Autonoma de Aguascalientes, Aguascalientes, Mexico, March 27, 2006
American Geophysical Union, Fall Meeting, San Francisco, CA, December 7, 2005.
Department of Earth Sciences, University of California at Santa Cruz, CA, November 8, 2005.
ACD Seminar, National Center for Atmospheric Research, Boulder, CO, June 25, 2005.
NASA Jet Propulsion Laboratory, Pasadena, CA, February 18, 2005

CDSNS Colloquium, School of Mathematics, Georgia Institute of Technology, January 10, 2005.
American Geophysical Union, Fall Meeting, San Francisco, CA, December 17, 2004.
Department of Earth and Atmospheric Sciences, Harvard University, December 10, 2004.
Aspen Global Change Institute, "Aerosols and the Hydrological Cycle", 17 July 2004.
NASA-Goddard Space Flight Center, Greenbelt, MD, June 9, 2004.
Department of Chemical Engineering, National Technical University of Athens, Greece, May 13, 2004.
Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, April 26, 2004.
Department of Chemistry, University of Crete, Greece, December 19, 2003.
NOAA-Aeronomy Laboratory, Boulder, CO, May 28, 2003.
NASA-Goddard Institute of Space Studies, New York City, NY, March 7, 2003.
Center for Integrated Study of the Human Dimensions of Global Change, Carnegie Mellon University,
Pittsburgh, PA, November 20, 2002.

Membership in Professional and Honor Societies

Hellenic Institute of Advanced Studies, American Chemical Society, American Institute of Chemical Engineers, American Meteorological Society, American Association for Aerosol Research, American Geophysical Union, European Geophysical Union, Hellenic Association for Aerosol Research, Technical Chamber of Engineers (Greece)

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