DIMITRIS G. KASKAOUTIS

Physicist,
Doctor of Philosophy, University of Ioannina, Greece

Assistant Professor,

Department of Chemical Engineering, University of Western Macedonia

CURRICULUM VITAE

August 2023

1. Personality

Name:	Dimitris G. Kaskaoutis
Date of Birth	22 May 1977
Place of Birth:	Arta, Greece
Marital status:	Married, one child
Work Address:	University of Western Macedonia, ZEP, 50100, Kozani, Greece
Office No:	+30-2461056620
Home address:	Ellispontou 5, Kozani, 50100, Greece
Emails:	dkaskaoutis@uowm.gr; dimitriskask@hotmail.com,
Research Gate profile:	https://www.researchgate.net/profile/Dimitris_Kaskaoutis
ORCID ID:	https://orcid.org/0000-0002-1538-1614

2. Education - Working experience

1995-2000: Bachelor in Physics, University of Athens

2000-2002: Master of Science in Environmental Physics-Meteorology, University of Athens

2003-2008: Doctor of Philosophy in Atmospheric Physics, University of Ioannina, Greece

2003-2010: Research Associate, Institute for Environmental Research and Sustainable Development, National Observatory of Athens

June-July 2010: Visitor Researcher at Tata Institute of Fundamental Research (TIFR), Hyderabad, India

2011: Research Faculty – Visitor Professor, Research and Technology Development Centre, Sharda University, Greater Noida, India

2013 - 2016: Assistant Professor, Department of Physics, School of Natural Science, Shiv Nadar University, Greater Noida, India

May – October 2015: Visitor researcher at National Observatory of Athens in the framework of the EU-funded KRIPIS-THESPIA project "Influence of atmospheric aerosol on solar spectral radiation"

2016 – 2023: Research Associate, Institute for Environmental Research and Sustainable Development, National Observatory of Athens

August 2023 – : Assistant Professor, Department of Chemical Engineering, University of Western Macedonia

3. Research topics - Interests

1. **Atmospheric Physics**
    1. Atmospheric Optics
    2. Effects of the atmospheric aerosols on solar spectral radiation
    3. Atmospheric turbidity

2. **Atmospheric Environment**
    1. Atmospheric Pollution, PM measurements
    2. Experimental measurements in the atmospheric boundary layer

3. **Energy**
    1. Solar radiation in normal and titled surfaces (measurements and modeling)
    2. Solar spectral irradiance modification under different atmospheric conditions
    3. Use of SMARTS and SPCTRAL radiative transfer models

4. **Remote Sensing**
    1. Use of satellite data for aerosol and air pollution monitoring
    2. Investigation of the aerosol climatology via satellite remote sensing

5. **Others**
    1. Aerosol effects on the global climate change
    2. Meteorology and climatology
    3. LIDAR and Ceilometer applications
    4. Investigation of the forest fire risk and extreme meteorological phenomena, such as dust storms, tropical cyclones

4. Publications in Scientific Journals

1. C.P. Jacovides, **D.G. Kaskaoutis**, F.S. Tymvios, D.N. Asimakopoulos, 2004. Application of SPCTRAL2 parametric model in estimating spectral solar irradiance over polluted Athens atmosphere. *Renewable Energy, 29, 1109-1119.* ***[IF: 4.900, citations: 15]***
2. C.P. Jacovides, N.A. Kaltsounides, D.N. Asimakopoulos, **D.G. Kaskaoutis**, 2005. Spectral aerosol optical depth and the Angstrom's parameters in the polluted Athens atmosphere. *Theoretical and Applied Climatology, 81, 161-167.* ***[IF: 2.321, citations: 15]***
3. **D.G. Kaskaoutis**, H.D. Kambezidis, C.P. Jakovides, M.D. Steven, 2006. Modification of solar radiation components under different atmospheric conditions in the Greater Athens Area, Greece. *Journal of Atmospheric and Solar Terrestrial Physics, 68, 1043-1052.* ***[IF: 1.478, citations: 28]***
4. **D.G. Kaskaoutis**, H.D. Kambezidis, 2006. Checking the validity of the Angstrom formula with spectral data of direct-beam irradiance obtained in Athens, Greece. *Atmospheric Research, 79, 67-87.* ***[IF: 3.817, citations: 11]***
5. **D.G. Kaskaoutis**, H.D. Kambezidis, A.D. Adamopoulos, P.A. Kassomenos, 2006. Comparison between experimental data and modeling estimates of aerosol optical depth over Athens, Greece. *Journal Atmospheric and Solar Terrestrial Physics, 68, 1167-1178.* ***[IF: 1.478, citations: 31]***
6. **D.G. Kaskaoutis,** H.D Kambezidis, 2006**.** Investigation into the wavelength dependence of the aerosol optical depth in the Athens area. *Quart. J. Royal Meteor. Society, 132, 2217-2234.* ***[IF: 2.978, citations: 95]***
7. **D.G. Kaskaoutis**, H.D Kambezidis, A.D. Adamopoulos, P.A. Kassomenos, 2006. On the characterization of aerosols using the Ångström exponent in the Athens area.

Journal Atmospheric and Solar Terrestrial Physics, 68, 2147-2163. ***[IF: 1.478, citations: 42]***

8. Ulas Im, Turgut Onay, Orhan Yeniguin, Umit Anteplioglu, Selahattin Incecik, Sema Toppu, Harry Kambezidis, **D.G. Kaskaoutis**, Pavlos Kassomenos, Dimitris Melas, A. Papadopoulos, 2006. An Overview of Forest Fires and Meteorology in Turkey and Greece**.** *IEEE, special issue art. no. 4150437, 62-67.* ***[IF: -, citations: 2]***
9. H.D. Kambezidis, **D.G. Kaskaoutis**, P. Kassomenos, D. Melas, A. Papadopoulos, O. Yeniguin, U. Im, T. Onay, S. Topcu, S. Incecik, 2006. An investigation on forest-fire risk assessment in selected areas in Greece and Turkey. *Forest Ecology and Management, Vol. 234, Supplement 1.S.46.* ***[IF: 3.126, citations: 2]***
10. K.V.S. Badarinath, Shailesh Kumar Kharol, **D.G. Kaskaoutis**, H.D. Kambezidis, 2007. Influence of atmospheric aerosols on solar spectral irradiance in an urban area. *Journal Atmospheric and Solar Terrestrial Physics, 69, 589-599.* ***[IF: 1.478, citations: 46]***
11. **D.G. Kaskaoutis**, H.D. Kambezidis, Z. Tóth, 2007. Investigation about the dependence of spectral diffuse-to-direct-beam ratio on atmospheric turbidity and solar zenith angle. *Theoretical and Applied Climatology, 89, 245-256.* ***[IF: 2.321, citations: 7]***
12. A.D. Adamopoulos, H.D. Kambezidis, **D.G. Kaskaoutis**, G. Giavis, 2007. A study of particle size in the atmosphere of Athens, Greece retrieved from solar spectral measurements. *Atmospheric Research, 86, 194-206.* ***[IF: 3.817, citations: 20]***
13. **D.G. Kaskaoutis**, H.D. Kambezidis, N. Hatzianastassiou, P.G. Kosmopoulos, K.V.S. Badarinath, 2007. Aerosol Climatology: On the discrimination of aerosol types over four AERONET sites. *Atmospheric Chemistry and Physics Discussions, 7, 6357-6411.* ***[IF: -, citations: 123]***
14. K.V.S. Badarinath, Shailesh Kumar Kharol, **D.G. Kaskaoutis**, H.D. Kambezidis, 2007. Case study of a dust storm over Hyderabad area, India: Its impact on solar radiation using satellite data and ground measurements**.** *Science of the Total Environment, 384, 316-332.* ***[IF: 4.610, citations: 70]***
15. **D.G. Kaskaoutis**, P.G. Kosmopoulos, H.D. Kambezidis, P.T. Nastos, 2007. Aerosol climatology and discrimination of different types over Athens, Greece based on MODIS data. *Atmospheric Environment, 41, 7315-7329.* ***[IF: 3.708,*** *citations****: 68]***
16. **D.G. Kaskaoutis**, H.D. Kambezidis, N. Hatzianastassiou, P.G. Kosmopoulos, K.V.S. Badarinath, 2007. Aerosol Climatology: Dependence of the Ångström exponent on wavelength over four AERONET sites. *Atmospheric Chemistry and Physics Discussions, 7, 7347-7397.* ***[IF: -, citations: 126]***
17. **D.G. Kaskaoutis**, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2007. Investigation of the ozone and trace gases contribution to the total optical depth in the polluted urban environment of Athens. *Atmospheric Research, 86, 286-296.* ***[IF: 3.817, citations: 2]***
18. K.V.S. Badarinath, Shailesh Kumar Kharol, V. Krishna Prasad, **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. Variation in aerosol properties over Hyderabad, India during intense cyclonic conditions. *International Journal of Remote Sensing, 29, 4575-4597.* ***[IF: 2.493, citations: 23]***
19. **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. The role of aerosol models of the SMARTS code in predicting the spectral direct-beam irradiance in an urban area. *Renewable Energy, 33, 1532-1543.* ***[IF: 4.900, citations: 26]***

20. **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. Comparison of the Ångström parameters retrieval in different spectral ranges with the use of different techniques. *Meteorology Atmospheric Physics, 99, 233-246.* ***[IF: 1.356, citations: 49]***
21. P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, 2008. Seasonal variation of columnar aerosol optical properties over Athens, Greece, based on MODIS data. *Remote Sensing of Environment, 112, 2354-2366.* ***[IF: 6.457, citations: 64]***
22. H.D. Kambezidis, **D.G. Kaskaoutis**, 2008. Aerosol climatology over four AERONET sites: An overview. *Atmospheric Environment, 42, 1892-1906.* ***[IF: 3.708, citations: 63]***
23. K.V.S. Badarinath, Shailesh Kumar Kharol, V. Krishna Prasad, E.U.B. Reddi, H.D. Kambezidis, **D.G. Kaskaoutis**, 2008. Influence of natural and anthropogenic activities on UV Index variations– A study over tropical urban region using ground based observations and satellite data. *Journal of Atmospheric Chemistry, 59, 219-236.* ***[IF: 1.708, citations: 36]***
24. **D.G. Kaskaoutis**, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2008. The diffuse-to-global spectral irradiance ratio as a cloud-screening technique for radiometric data. *Journal Atmospheric and Solar Terrestrial Physics, 70, 1597-1606.* ***[IF: 1.478, citations: 15]***
25. **D.G. Kaskaoutis**, H.D. Kambezidis, P.T. Nastos, P.G. Kosmopoulos, 2008. Study on an intense dust storm over Greece. *Atmospheric Environment, 42, 6884-6896.* ***[IF: 3.708, citations: 96]***
26. **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. The choice of the most appropriate aerosol model in a radiative transfer code. *Solar Energy, 82, 1198-1208.* ***[IF: 4.374, citations: 7]***
27. **D.G. Kaskaoutis**, H.D. Kambezidis, 2009. The diffuse-to-global and diffuse-to-direct-beam spectral irradiance ratios as turbidity indexes in an urban environment. *Journal Atmospheric and Solar Terrestrial Physics, 71, 246-256.* ***[IF: 1.478, citations: 9]***
28. K.V.S. Badarinath, Shailesh Kumar Kharol, Anu Rani Sharma, V. Ramaswamy, **D.G. Kaskaoutis**, H.D. Kambezidis, 2009. Investigations of an intense aerosol loading during 2007 cyclone SIDR – A study using satellite data and ground measurements over Indian region. *Atmospheric Environment, 43, 3708-3716.* ***[IF: 3.708, citations: 26]***
29. M.C.R. Kalapureddy, **D.G. Kaskaoutis**, P. Ernest Raj, P.C.S. Devara, H.D. Kambezidis, P.G. Kosmopoulos, P.T. Nastos, 2009. Identification of aerosol type over the Arabian Sea in the pre-monsoon season during the Integration Campaign for Aerosols, Gases and Radiation Budget (ICARB). *J. Geophysical Research, 114, D17203, doi:10.1029/2009JD011826.* ***[IF: 3.380, citations: 82]***
30. **D.G. Kaskaoutis**, K.V.S. Badarinath, Shailesh Kumar Kharol, Anu Rani Sharma, H.D. Kambezidis, 2009. Variations in the aerosol optical properties and types over the tropical urban site of Hyderabad, India. *J. Geophysical Research, 114, D22204, doi:10.1029/2009JD012423.* ***[IF: 3.380, citations: 139]***
31. **D.G. Kaskaoutis**, M.C.R. Kalapureddy, K. Krishna Moorthy, P.C.S. Devara, P.T. Nastos, P.G. Kosmopoulos, H.D. Kambezidis, 2010. Heterogeneity in pre-monsoon aerosol types over the Arabian Sea deduced from shipboard measurements of spectral AODs. *Atmospheric Chemistry and Physics, 10, 4893-4908.* ***[IF: 5.509, citations: 53]***
32. K.V.S. Badarinath, Shailesh Kumar Kharol, **D.G. Kaskaoutis**, Anu Rani Sharma, V. Ramaswamy and H.D. Kambezidis, 2010. Long range transport of dust aerosols

over Arabian Sea and Indian region - A case study using satellite data and ground-based measurements. *Global Planetary Change, 72, 164-181.* ***[IF: 3.982, citations: 133]***

33. **D.G. Kaskaoutis**, P.T. Nastos, P.G. Kosmopoulos, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2010. The Aura-OMI Aerosol Index distribution over Greece. *Atmospheric Research, 98, 28-39.* ***[IF: 3.817, citations: 35]***
34. **D.G. Kaskaoutis**, P.T. Nastos, P.G. Kosmopoulos, H.D. Kambezidis, 2010. The combined use of satellite data, air-mass trajectories and model applications for monitoring of the dust transport over Athens, Greece. *International Journal of Remote Sensing, 31, 5089-5109.* ***[IF: 2.493, citations: 9]***
35. **D.G. Kaskaoutis**, P.G. Kosmopoulos, H.D. Kambezidis, P.T. Nastos, 2010. Identification of the aerosol types over Athens, Greece. The influence of air-mass transport. *Advances in Meteorology, ID168346, doi:10.1155/2010/147910.* ***[IF: 1.645, citations: 12]***
36. **D.G. Kaskaoutis,** N. Sifakis, A. Retalis, H.D. Kambezidis, 2010. Aerosol monitoring over Athens using satellite and ground-based measurements. *Advances in Meteorology, ID147910, doi:10.1155/2010/147910* ***[IF: 1.645, citations: 10]***.
37. K.V.S. Badarinath, Anu Rani Sharma, **D.G. Kaskaoutis**, Shailesh Kumar Kharol, and H.D. Kambezidis, 2010. Solar dimming over the tropical urban region of Hyderabad, India: Effect of increased cloudiness and increased anthropogenic aerosols. *Journal Geophysical Research, 115, D21208, doi:10.1029/2009JD013694*. ***[IF: 3.380, citations: 34]***
38. **D.G. Kaskaoutis**, Shailesh Kumar Kharol, N. Sifakis, P.T. Nastos, Anu Rani Sharma, K.V.S. Badarinath, H.D. Kambezidis, 2011. Satellite monitoring of the biomass burning aerosols during the wildfires of August 2007 in Greece: Climate implications. *Atmospheric Environment, 45, 716-726.* ***[IF: 3.708, citations: 36]***
39. Shailesh Kumar Kharol, K.V.S. Badarinath, Anu Rani Sharma, **D.G. Kaskaoutis**, H.D. Kambezidis 2011. Multiyear analysis of Terra/Aqua MODIS aerosol optical depth and ground observations over tropical urban region of Hyderabad, India. *Atmospheric Environment, 45, 1532-1542.* ***[IF: 3.708, citations: 44]***
40. **D.G. Kaskaoutis**, Shailesh Kumar Kharol, P.R. Sinha, R.P. Singh, H.D. Kambezidis, Anu Rani Sharma, K.V.S. Badarinath, 2011. Extremely large anthropogenic-aerosol contribution to total aerosol load over the Bay of Bengal during winter season. *Atmospheric Chemistry and Physics, 11, 7097-7117.* ***[IF: 5.509, citations: 84]***
41. P. R. Sinha, R. K. Manchanda, **D.G. Kaskaoutis**, S. Sreenivasan, K. Krishna Moorthy, S. Suresh Babu, 2011. Spatial heterogeneities in aerosol size distribution over Bay of Bengal during Winter-ICARB Experiment. *Atmospheric Environment, 45, 4695-4705.* ***[IF: 3.708, citations: 13]***
42. **D.G. Kaskaoutis**, S. Kumar Kharol, P.R. Sinha, R.P. Singh, K.V.S. Badarinath, W. Mehdi, M. Sharma, 2011. Contrasting aerosol trends over South Asia during the last decade based on MODIS observations. *Atmospheric Measurements and Techniques Discussions, 4, 5275-5323.* ***[IF: -, citations: 76]***
43. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, Anu Rani Sharma, B. Gharai, 2011. Influence of continental advection on aerosol characteristics over Bay of Bengal (BoB) in winter: results from W-ICARB cruise experiment. *Annales Geophysicae, 29, 1423-1438.* ***[IF: 1.621, citations: 20]***
44. A. Rashki, **D.G. Kaskaoutis**, C.J.deW. Rautenbach, P.G. Eriksson, M. Qiang, P. Gupta, 2012. Dust storms and their horizontal dust loading in the Sistan region, Iran. *Aeolian Research, 5, 51-62.* ***[IF: 2.346, citations: 160]***

45. **D.G. Kaskaoutis**, A.K. Prasad, P.G. Kosmopoulos, P.R. Sinha, S.K. Kharol, P. Gupta, H.M. El-Askary, M. Kafatos, 2012. Synergistic use of remote sensing and modeling for tracing dust storms in the Mediterranean. *Advances in Meteorology, ID 861026, doi:10.1155/2012/861026*. ***[IF: 1.645, citations: 14]***

46. **D.G. Kaskaoutis**, P.G. Kosmopoulos, P.T. Nastos, H.D. Kambezidis, Manish Sharma, Waseem Mehdi, 2012. Transport pathways of Sahara dust over Athens, Greece as detected by MODIS and TOMS. *Geomatics, Natural Hazards and Risk, 3, 35-54*. ***[IF: 2.332, citations: 23]***

47. H.D. Kambezidis, **D.G. Kaskaoutis**, Shailesh Kumar Kharol, K. Krishna Moorthy, S.K. Satheesh, M.C.R. Kalapureddy, K.V.S. Badarinath, Anu Rani Sharma, M. Wild, 2012. Multi-decadal variation of the net downward shortwave radiation over south Asia: the solar dimming effect. *Atmospheric Environment, 50, 360-372*. ***[IF: 3.708, citations: 39]***

48. **D.G. Kaskaoutis**, R.P. Singh, R. Gautam, M. Sharma, P.G. Kosmopoulos, S.N. Tripathi, 2012. Variability and trends of aerosol properties over Kanpur, northern India using AERONET data (2001-10). *Environmental Research Letters, 7, 024003*. ***[IF: 6.192, citations: 106]***

49. Deepti Sharma, D. Singh, **D.G. Kaskaoutis**, 2012. Impact of two intense dust storms on aerosol characteristics and radiative forcing over Patiala, in the North-West India. *Advances in Meteorology, ID 956814, doi:10.1155/2012/956814*. ***[IF: 1.645, citations: 55]***

50. **D.G. Kaskaoutis**, R. Gautam, R.P. Singh, E.E. Houssos, D. Goto, S. Singh, A. Bartzokas, P.G. Kosmopoulos, M. Sharma, N.C. Hsu, B.N. Holben, T. Takemura, 2012. Influence of anomalous dry conditions on aerosols over India: transport, distribution and properties. *Journal Geophysical Research, 117, D09106, doi:10.1029/2011JD017314*. ***[IF: 3.380, citations: 36]***

51. **D.G. Kaskaoutis**, P.T. Nastos, P.G. Kosmopoulos, H.D. Kambezidis, 2012. Characterizing the long-range transport mechanisms of different aerosol types over Athens, Greece during 2000-2005. *International Journal of Climatology, 32, 1249-1270*. ***[IF: 3.601, citations: 14]***

52. P.R. Sinha, **D.G. Kaskaoutis**, R.K. Manchanda, S.Sreenivasan, 2012. Characteristics of aerosols over Hyderabad, in southern peninsular India: synergy in the classification techniques. *Annales Geophysicae, 30, 1393-1410*. ***[IF: 1.621, citations: 33]***

53. A. Rashki, C.J.deW. Rautenbach, P.G. Eriksson, **D.G. Kaskaoutis**, P. Gupta, 2013. Temporal changes of particulate concentration in the ambient air over the city of Zahedan, Iran. *Air Quality, Atmosphere and Health, 6, 123-135, doi:10.1007/s11869-011-0152-5*. ***[IF: 2.662, citations: 52]***

54. S.K. Kharol, **D.G. Kaskaoutis**, K.V.S. Badarinath, A.R. Sharma, R.P. Singh, 2013. Influence of land use/land cover (LULC) changes on atmospheric dynamics over the arid region of Rajasthan state, India. *Journal Arid Environments, 88, 90-101*. ***[IF: 1.989, citations: 40]***

55. A. Rashki, P.G. Eriksson, C. J. deW. Rautenbach, **D.G. Kaskaoutis**, W. Grote, J. Dykstra, 2013. Assessment of chemical and mineralogical characteristics of airborne dust in the Sistan region, Iran. *Chemosphere, 90, 227-236*. ***[IF: 4.427, citations: 103]***

56. P.R. Sinha, U.C. Dumka, R.K. Manchanda, **D.G. Kaskaoutis**, S. Sreenivasan, K. Krishna Moorthy, S. Suresh Babu, 2013. Contrasting aerosol characteristics and radiative forcing over Hyderabad, India due to seasonal meso-scale and synoptic

scale processes. *Quarterly Journal Royal Meteorological Society*, *139, 434-450*. ***[IF: 2.978, citations: 29]***

57. P.R. Sinha, R.K. Manchanda, **D.G. Kaskaoutis**, Y.B. Kumar S. Sreenivasan, 2013. Seasonal variation of surface and vertical profile of aerosol properties over a tropical urban station Hyderabad, India. *Journal Geophysical Research*, *118, 749–768, doi:10.1029/2012JD018039*. ***[IF: 3.380, citations: 37]***

58. **D.G. Kaskaoutis**, P.R. Sinha, V. Vinoj, P.G. Kosmopoulos, S.N. Tripathi, Amit Misra, M. Sharma, R.P. Singh, 2013. Aerosol properties and radiative forcing over Kanpur during severe aerosol loading conditions. *Atmospheric Environment*, *79, 7-19*. ***[IF: 3.708, citations: 81]***

59. A. Rashki, **D.G. Kaskaoutis**, A.S. Goudie, R.A. Kahn, 2013. Dryness of ephemeral lakes and consequences for dust activity: the case of the Hamoun drainage basin, southeastern Iran. *Science of the Total Environment*, *463–464, 552–564*. ***[IF: 4.610, citations: 152]***

60. S.K. Kharol, **D.G. Kaskaoutis**, A.R. Sharma, R.P. Singh, 2013. Long-term (1951-2007) rainfall trends around six Indian cities: Current state, meteorological and urban dynamics. *Advances in Meteorology, Article ID 572954, doi:10.1155/2013/572954*. ***[IF: 1.645, citations: 27]***

61. A. Rashki, **D.G. Kaskaoutis**, C.J. de W. Rautenbach, C. Flamant, F. Abdi Vishkaee, 2014. Spatio-temporal variability of dust aerosols over the Sistan region in Iran based on satellite observations. *Natural Hazards, 71, 563, doi: 10.1007/s11069-013-0927-0*. ***[IF: 1.901, citations: 42]***

62. M. Sharma, **D.G. Kaskaoutis**, R.P. Singh, S. Singh, 2014. Seasonal variability of atmospheric aerosol parameters over Greater Noida using ground sun photometer observations. *Aerosol Air Quality Research, 14, 608-622, doi: 10.4209/aaqr.2013.06.0219*. ***[IF: 2.735, citations: 78]***

63. K.D. Kanniah, H.Q. Lim, **D.G. Kaskaoutis**, A.P. Cracknell, 2014. Investigating aerosol properties in Peninsular Malaysia via the synergy of satellite remote sensing and ground-based measurements. *Atmospheric Research*, *138, 223-239*. ***[IF: 3.817, citations: 29]***

64. **D.G. Kaskaoutis**, E.E. Houssos, D. Goto, A. Bartzokas, P.T. Nastos, P.R. Sinha, S.K. Kharol, P.G. Kosmopoulos, R.P. Singh, T. Takemura, 2014. Synoptic weather conditions and aerosol episodes over Indo-Gangetic Plains, India. *Climate Dynamics, 43, 2313-2331, doi: 10.1007/s00382-014-2055-2*. ***[IF: 3.774, citations: 37]***

65. **D.G. Kaskaoutis**, S. Kumar, D. Sharma, R.P. Singh, S.K. Kharol, M. Sharma, A.K. Singh, S. Singh, A. Singh, D. Singh, 2014. Effects of crop residue burning on aerosol properties, plume characteristics and long-range transport over northern India. *Journal Geophysical Research, 119, 5424-5444, doi:10.1002/2013JD021357*. ***[IF: 3.380, citations: 188]***

66. **D.G. Kaskaoutis,** A. Rashki, E.E. Houssos, D. Goto, P.T. Nastos, 2014. Extremely high aerosol loading over Arabian Sea during June 2008: the specific role of the atmospheric dynamics and Sistan dust storms. *Atmospheric Environment*, *94, 374-384*. ***[IF: 3.708, citations: 50]***

67. U.C. Dumka, **D.G. Kaskaoutis,** 2014. In-situ measurements of aerosol properties and estimates of radiative forcing efficiency over Gangetic-Himalayan region during the GVAX field campaign. *Atmospheric Environment*, *94, 96-105*. ***[IF: 3.708, citations: 12]***

68. K. Soni, S. Kapoor, K.S. Parmar, **D.G. Kaskaoutis**, 2014. Statistical Analysis of Aerosols over the Gangetic-Himalayan region using ARIMA model based on long-

term MODIS observations. *Atmospheric Research, 149, 174-192*. ***[IF: 3.817, citations: 31]***

69. R.P. Singh and **D.G. Kaskaoutis**, 2014. Crop-residue burning in Punjab: A Serious Air Quality and Health Hazard in South Asia. *EOS, American Geoscience Union Transactions, 95, 333-334*. ***[IF: -, citations: 107]***

70. **D.G. Kaskaoutis**, A. Rashki, E.E. Houssos, A. Mofidi, D. Goto, A. Bartzokas, P. Francois, M. Legrand, 2015. Meteorological aspects associated with dust storms in the Sistan region, southeastern Iran. *Climate Dynamics, 45, 407-424*. ***[IF: 3.774, citations: 64]***

71. A. Rashki, **D.G. Kaskaoutis**, P. Francois, P.G. Kosmopoulos, M. Legrand, 2015. Dust-storm dynamics over Sistan region, Iran: seasonality, transport characteristics and affected areas. *Aeolian Research, 16, 35-48*. ***[IF: 2.346, citations: 92]***

72. U.C. Dumka, D. Bhattu, S.N. Tripathi, **D.G. Kaskaoutis**, B.L. Madhavan, 2015. Seasonal inhomogeneity in cloud precursors over Gangetic Himalayan region during GVAX campaign. *Atmospheric Research, 155, 152-175*. ***[IF: 3.817, citations: 25]***

73. Sarvan Kumar, Sanjay Kumar, **D.G. Kaskaoutis**, R.P. Singh, R.K. Singh, A.K. Mishra, M.K. Srivastava, A.K. Singh, 2015. Meteorological, atmospheric and climatic perturbations during major dust storms over Indo-Gangetic basin. *Aeolian Research, 17, 15-31*. ***[IF: 2.346, citations: 42]***

74. U.C. Dumka, **D.G. Kaskaoutis**, M.K. Srivastava, P.C.S. Devara, 2015. Scattering and absorption properties of near-surface aerosol over Gangetic–Himalayan region: the role of boundary layer dynamics and long-range transport. *Atmospheric Chemistry and Physics, 15, 1555–1572*. ***[IF: 5.509, citations: 50]***

75. D.S. Bisht, U.C. Dumka, **D.G. Kaskaoutis**, A.S. Pipal, A.K. Srivastava, V. Soni, S.D. Attri, M. Sateesh, S. Tiwari, 2015. Carbonaceous aerosols and pollutants over Delhi urban environment: temporal evolution, source apportionment and radiative forcing. *Science of the Total Environment, 521–522, 431–445*. ***[IF: 4.610, citations: 116]***

76. **D.G. Kaskaoutis**, A. Rashki, P. Francois, U.C. Dumka, E.E. Houssos, M. Legrand, 2015. Meteorological regimes modulating dust outbreaks in southwest Asia: the role of pressure anomaly and Inter-Tropical Convergence Zone on the 1-3 July 2014 case. *Aeolian Research, 18, 83-97*. ***[IF: 2.346, citations: 22]***

77. P.R. Sinha, P. Gupta, **D.G. Kaskaoutis**, L.K. Sahu, N. Nagendra, R. K. Manchanda, Y.B. Kumar, S. Sreenivasan, 2015. Estimation of Particulate Matter from Satellite and Ground Based Observations over Hyderabad, India. *International Journal Remote Sensing, 36:24, 6192-6213*. ***[IF: 2.493, citations: 12]***

78. S. Tiwari, U.C. Dumka, **D.G. Kaskaoutis**, Kirpa Ram, A.S. Panicker, M.K. Srivastava, Shani Tiwari, S.D. Attri, V.K. Soni, A.K. Pandey, 2016. Aerosol chemical characterization and role of carbonaceous aerosol on radiative effect over Varanasi in central Indo-Gangetic Plain. *Atmospheric Environment, 125, 437-449*. ***[IF: 3.708, citations: 33]***

79. **D.G. Kaskaoutis**, E.E. Houssos, A. Rashki, P. Francois, M. Legrand, D. Goto, A. Bartzokas, H.D. Kambezidis, T. Takemura, 2016. The Caspian Sea – Hindu Kush Index (CasHKI): a regulatory factor for dust activity over southwest Asia. *Global and Planetary Change, 137, 10-23*. ***[IF: 3.982, citations: 42]***

80. H.D. Kambezidis, B.E. Psiloglou, D. Karagiannis, U.C. Dumka, **D.G. Kaskaoutis**, 2016. Recent improvements of the Meteorological Radiation Model for solar irradiance estimates under all-sky conditions. *Renewable Energy, 93, 142-158*. ***[IF: 4.900, citations: 40]***

81. **D.G. Kaskaoutis**, H.D. Kambezidis, U.C. Dumka, B.E. Psiloglou, 2016. Dependence of the spectral Diffuse-Direct irradiance ratio on aerosol spectral distribution and single scattering albedo. *Atmospheric Research, 178-179, 84-94*. ***[IF: 3.817, citations: 6]***

82. K.D. Kanniah, **D.G. Kaskaoutis,** H.S. Lim, M.T., Latif, N.A.F.K. Zaman, L. Juneng, 2016. Overview of Atmospheric Aerosols Studies in Malaysia: known and unknown. *Atmospheric Research, 182, 302-318*. ***[IF: 3.817, citations: 27]***

83. U.C. Dumka, S.D. Saheb, **D.G. Kaskaoutis**, Y. Kant, D. Mitra, 2016. Columnar aerosol characteristics and radiative forcing over Doon valley Valley in the Shivalik ranges of northwestern Himalayan. *Environmental Science and Pollution Research, 23, 25467–25484*. ***[IF: 2.800, citations: 18]***

84. H.D. Kambezidis, **D.G. Kaskaoutis**, G.K. Kalliampakos, A. Rashki, M. Wild, 2016. The solar dimming/brightening effect over the Mediterranean Basin during the period 1979 – 2012. *Journal Atmospheric and Solar Terrestrial Physics, 150-151, 31-46*. ***[IF: 1.478, citations: 29]***

85. P.N. Patel, U.C. Dumka, **D.G. Kaskaoutis**, K.N. Babu, A.K. Mathur, 2017. Optical and radiative properties of aerosols over Desalpar, a remote site in western India: Source identification, modification processes and aerosol type discrimination. *Science of the Total Environment, 575, 612–627*. ***[IF: 4.610, citations: 42]***

86. S. Tiwari, U.C. Dumka, A.S. Gautam, **D.G. Kaskaoutis**, A.K. Srivastava, D.S. Bisht, R.K. Chakrabarty, B.J. Sumlin, F. Solmon, 2017. Assessment of $PM_{2.5}$ and PM_{10} over Guwahati, in Brahmaputra river valley: temporal evolution, source apportionment and meteorological dependence. *Atmospheric Pollution Research, 8, 13-28*. ***[IF: 2.152, citations: 36]***

87. U.C. Dumka, S. Tiwari, **D.G. Kaskaoutis**, P.K. Hopke, J. Singh, A.K. Srivastava, D.S. Bisht, S.D. Attri, S. Tyagi, A. Misra, G.S.M. Pasha, 2017. Assessment of PM2.5 chemical compositions in Delhi: primary vs secondary emissions and contribution to light extinction coefficient and visibility degradation. *Journal of Atmospheric Chemistry, 74, 423-450*. ***[IF: 1.708, citations: 28]***

88. R.D. Behrooz, A. Esmaili-Sari, N. Bahramifar, **D.G. Kaskaoutis**, 2017. Analysis of the TSP, PM_{10} concentrations and water-soluble ionic species in airborne samples over Sistan, Iran during the summer dusty period. *Atmospheric Pollution Research, 8, 403-417*. ***[IF: 2.152, citations: 31]***

89. A. Rashki, M. Arjmand, **D.G. Kaskaoutis**, 2017. Assessment of dust activity and dust-plume pathways over Jazmurian Basin, southeast Iran. *Aeolian Research, 24, 145–160*. ***[IF: 2.346, citations: 83]***

90. **D.G. Kaskaoutis**, A. Rashki, E.E. Houssos, M. Legrand, P. Francois, A. Bartzokas, H.D. Kambezidis, U.C. Dumka, D. Goto, T. Takemura, 2017. Assessment of changes in atmospheric dynamics and dust activity over southwest Asia using the Caspian Sea – Hindu Kush Index. *International Journal of Climatology, 37 (Suppl.1), 1013–1034*. ***[IF: 3.601, citations: 21]***

91. H.D. Kambezidis, B.E. Psiloglou, D. Karagiannis, U.C. Dumka, **D.G. Kaskaoutis**, 2017. Meteorological Radiation Model (MRM v6.1): Improvements in diffuse radiation estimates and a new approach for implementation of cloud products. *Renewable and Sustainable Energy Reviews, 74, 616 – 637*. ***[IF: 9.184, citations: 45]***

92. N.A.F.K, Zaman, K.D. Kanniah, **D.G. Kaskaoutis**, 2017. Estimating Particulate Matter using satellite based aerosol optical depth and meteorological variables in Malaysia. *Atmospheric Research, 193, 142-162*. ***[IF: 3.817, citations: 65]***

93. R.D. Behrooz, A. Esmaili-Sari, N. Bahramifar, **D.G. Kaskaoutis**, K. Saeb, F. Rajaei, 2017. Trace element concentrations and water-soluble ions in size-segregated dust-borne and soil samples in Sistan, southeast Iran. *Aeolian Research, 25, 87-105*. ***[IF: 2.346, citations: 29]***

94. U.C. Dumka, **D.G. Kaskaoutis**, Ram Sagar, J. Chen, N. Singh, S. Tiwari, 2017. First results from light scattering enhancement factor over central Indian Himalayas during GVAX campaign. *Science of the Total Environment, 605–606, 124–138*. ***[IF: 4.610, citations: 14]***

95. **D.G. Kaskaoutis**, E.E. Houssos, F. Solmon, M. Legrand, A. Rashki, U.C. Dumka, P. Francois, R. Gautam, R.P. Singh, 2018. Impact of atmospheric circulation types on southwest Asian dust and Indian summer monsoon rainfall. *Atmospheric Research, 201, 189-205*. ***[IF: 3.817, citations: 34]***

96. A. Rashki, **D.G. Kaskaoutis**, A. Sepehr, 2018. Statistical evaluation of the dust events at selected stations in southwest Asia: from the Caspian Sea to the Arabian Sea. *Catena, 165, 590 – 603*. ***[IF: 3.256, citations: 32]***

97. Shani Tiwari, **D.G. Kaskaoutis**, V.K. Soni, S.D. Attri, A.K. Singh, 2018. Aerosol columnar characteristics and their heterogeneous nature over Varanasi, in the central Ganges valley. *Environmental Science and Pollution Research*, doi:10.1007/s11356-018-2502-4. ***[IF: 2.800, citations: 16]***

98. **D.G. Kaskaoutis**, E.E. Houssos, F. Minvielle, A. Rashki, I. Chiapello, U.C. Dumka, M. Legrand, 2018. Long-term variability and trends in the Caspian Sea – Hindu Kush Index: Influence on atmospheric circulation patterns, temperature and rainfall over the Middle East and southwest Asia. *Global and Planetary Change*, 169, 16-33. ***[IF: 3.982, citations: 12]***

99. U.C. Dumka, **D.G. Kaskaoutis**, S. Tiwari, P.D. Safai, S.D. Attri, V.K. Soni, N. Singh, N. Mihalopoulos, 2018. Assessment of biomass burning and fossil fuel contribution to black carbon concentrations in Delhi during winter. *Atmospheric Environment, 194, 93–109*. ***[IF: 3.708, citations: 59]***

100. M.N. Styllas, **D.G. Kaskaoutis**, 2018. Relationship between winter orographic precipitation with synoptic and large-scale atmospheric circulation: The case of Mount Olympus, Greece. *Bulletin Geological Society of Greece*, 52, 45-70.

101. N.A.F.K. Zaman, K.D. Kanniah, **D.G. Kaskaoutis**, 2018. Satellite data for upscalling urban air pollution in Malaysia. *IOP Conf. Series: Earth and Environmental Science*, 169, 012036, doi:10.1088/1755-1315/169/1/012036. ***[IF: - , citations: 4]***

102. D. Katsanos, A. Bougiatioti, E. Liakakou, **D.G. Kaskaoutis**, I. Stavroulas, D. Paraskevopoulou, M. Lianou, B.E. Psiloglou, E. Gerasopoulos, Ch. Pilinis, N. Mihalopoulos, 2019. Optical Properties of Near-surface Urban Aerosols and their Chemical Tracing in a Mediterranean City (Athens). *Aerosol and Air Quality Research*, 19, 49-70. ***[IF: 2.735, citations: 13]***

103. U.C. Dumka, **D.G. Kaskaoutis**, P.C.S. Devara, R. Kumar, S. Kumar, S. Tiwari, E. Gerasopoulos, N. Mihalopoulos, 2019. Year-long variability of the fossil fuel and wood burning black carbon components at a rural site in southern Delhi outskirts. *Atmospheric Rese*arch, 216, 11–25. ***[IF: 3.817, citations: 39]***

104. A. Rashki, **D.G. Kaskaoutis**, A. Mofidi, F. Minvielle, I. Chiapello, M. Legrand, U.C., Dumka, P. Francois, 2019. Effects of Monsoon, Shamal and Levar winds on dust accumulation over the Arabian Sea during summer – The July 2016 case. *Aeolian Research*, 36, 27-44. ***[IF: 2.346, citations: 50]***

105. U.C. Dumka, S., Tiwari, **D.G. Kaskaoutis**, V.K. Soni, P.D. Safai, S.D. Attri, 2019. Aerosol and pollutant characteristics in Delhi during a winter research campaign.

Environmental Science and Pollution Research, 26, 3771–3794. ***[IF: 2.800, citations: 40]***

106. **D.G. Kaskaoutis**, A. Rashki, U.C. Dumka, A. Mofidi, H.D. Kambezidis, B.E. Psiloglou, D. Karagiannis, K. Petrinoli, A. Gavriil, 2019. Atmospheric dynamics associated with exceptionally dusty conditions 2 over the eastern Mediterranean and Greece in March 2018. *Atmospheric Research*, 218, 269-284. ***[IF: 3.817, citations: 21]***

107. **D.G. Kaskaoutis**, U.C. Dumka, A. Rashki, B.E. Psiloglou, A. Gavriil, A. Mofidi, K. Petrinoli, D. Karagiannis, H.D. Kambezidis, 2019. Analysis of intense dust storms over the eastern Mediterranean in March 2018: Impact on radiative forcing and Athens air quality. *Atmospheric Environment*, 209, 23-39. ***[IF: 3.708, citations: 27]***

108. Y. Li, Y. Song, **D.G. Kaskaoutis**, X. Chen, Y. Mamadjanov, L. Tan, 2019. Atmospheric dust dynamics in southern Central Asia: Implications for buildup of Tajikistan loess sediments. *Atmospheric Research*, 229, 74-85. ***[IF: 4.114, citations: 28]***

109. U.C. Dumka, **D.G. Kaskaoutis**, D. Francis, J.-P. Chaboureau, A. Rashki, Suresh Tiwari, Sachidanand Singh, E. Liakakou, N. Mihalopoulos, 2019. The role of the Intertropical Discontinuity region and the heat-low in dust emission and transport over the Thar desert - India: A pre-monsoon case study. *J. Geophysical Research*, 124, 13197 - 13219, *doi:10.1029/2019JD030836* ***[IF: 3.450, citations: 24]***

110. **D.G. Kaskaoutis**, D. Francis, A. Rashki, J.-P. Chaboureau, U.C. Dumka, 2019. Atmospheric dynamics from synoptic to local scale during an intense frontal dust storm over the Sistan Basin in winter 2019. *Geosciences*, 9, 453, doi:10.3390/geosciences9100453 ***[Cite Score: 1.82, citations: 11]***

111. G. Grivas, I. Stavroulas, E. Liakakou, **D.G. Kaskaoutis**, A. Bougiatioti, D. Paraskevopoulou, E. Gerasopoulos, N. Mihalopoulos, 2019. Measuring the spatial variability of Black Carbon in Athens during wintertime. *Air Quality, Atmosphere and Health*, 12, 1405-1417 ***[IF: 2.297, citations: 8]***

112. B.E. Psiloglou, H.D. Kambezidis, **D.G. Kaskaoutis**, D. Karagiannis, J. Polo, 2020. Comparison between MRM simulations, CAMS and PVGIS databases with measured solar radiation components at the Methoni station, Greece. *Renewable Energy*, 146, 1372-1391. ***[IF: 5.439, citations: 42]***

113. E. Liakakou, I. Stavroulas, **D.G. Kaskaoutis**, G. Grivas, D. Paraskevopoulou, U.C. Dumka, M. Tsagkaraki, A. Bougiatioti, K. Oikonomou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2020. Long-term variability, source apportionment and spectral properties of black carbon at an urban background site in Athens, Greece. *Atmospheric Environment*, doi: 10.1016/j.atmosenv.2019.117137. ***[IF: 4.012, citations: 32]***

114. E. Liakakou, **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, M. Tsagkaraki, D. Paraskevopoulou, A. Bougiatioti, U.C. Dumka, E. Gerasopoulos, N. Mihalopoulos, 2020. Long-term brown carbon spectral characteristics in a Mediterranean city (Athens). *Science of the Total Environment*, *135019, doi: 10.1016/j.scitotenv.2019.135019*. ***[IF: 5.589, citations: 40]***

115. **D.G. Kaskaoutis**, G. Grivas, C. Theodosi, M. Tsagkaraki, D. Paraskevopoulou, I. Stavroulas, E. Liakakou, A. Gkikas, N. Hatzianastassiou, C. Wu, E. Gerasopoulos, N. Mihalopoulos, 2020. Carbonaceous Aerosols in Contrasting Atmospheric Environments in Greek Cities: Evaluation of the EC-tracer Methods for Secondary Organic Carbon Estimation. *Atmosphere*, 11, 161, doi: 10.3390/atmos11020161. ***[IF: 2.046, citations: 25]***

116. H.D. Kambezidis, B.E. Psiloglou, **D.G. Kaskaoutis**, D. Karagiannis, K. Petrinoli, A. Gavriil, K. Kavadias, 2020. Generation of Typical Meteorological Years for 33 locations in Greece: adaptation to the needs of various applications. *Theoretical and Applied Climatology* (in press) ***[IF: 2.321, citations: 6]***

117. U.C. Dumka, S.S. Ningombam, **D.G. Kaskaoutis**, B.L. Madhavan, H.-J. Song, D. Angchuk, S. Jorphail, 2020. Long-term (2008-2018) aerosol properties and radiative effect at high-altitude sites over western trans-Himalayas. *Science of the Total Environment*, doi:10.1016/j.scitotenv.2020.139354, ***[IF: 5.589, citations: 7]***

118. K.D., Kanniah, N.A.F.K., Zaman, **D.G. Kaskaoutis**, M.T. Latif, 2020. COVID-19's Impact on the Atmospheric Environment in the Southeast Asia Region. *Science of the Total Environment*, 139658, doi:10.1016/j.scitotenv.2020.139658. ***[IF: 5.589, citations: 275]***

119. G. Kalita, R.K. Kunchala, S. Fadnavis, **D.G. Kaskaoutis**, 2020. Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning. *Atmospheric Research*, 105064, doi:10.1016/j.atmosres.2020.105064 ***[IF: 4.114, citations: 18]***

120. Grivas, G., Athanasopoulou, E., Kakouri, A., Bailey, J., Liakakou, E., Stavroulas, I., Kalkavouras, P., Bougiatioti, A., **Kaskaoutis, D.G.**, Ramonet, M., Mihalopoulos, N., Gerasopoulos, E., 2020. Integrating in situ measurements and city scale modelling to assess the COVID–19 lockdown effects on emissions and air quality in Athens, Greece. *Atmosphere 11, 1174, doi:10.3390/atmos11111174*. ***[IF: 2.046, citations: 37]***

121. R.D. Behrooz, **D.G. Kaskaoutis**, G. Grivas, N. Mihalopoulos, 2021. Health risk assessment for toxic elements in the extreme ambient dust conditions observed in Sistan, Iran. *Chemosphere, 127835, doi: 10.1016/j.chemosphere.2020.127835* ***[IF: 5.108, citations: 66]***

122. U.C. Dumka, **D.G. Kaskaoutis**, N. Mihalopoulos, R., Sheoran, 2020. Identification of key aerosol types and mixing states in the central Indian Himalayas during the GVAX campaign: the role of particle size in aerosol classification. *Science of the Total Environment, 143188, doi: 10.1016/j.scitotenv.2020.143188*. ***[IF: 5.589, citations: 10]***

123. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, E. Liakakou, U.C. Dumka, K. Dimitriou, E. Gerasopoulos, N. Mihalopoulos, 2021. In situ identification of aerosol types in Athens, Greece, based on long-term optical and on online chemical characterization. *Atmospheric Environment*, https://doi.org/10.1016/j.atmosenv.2020.118070 ***[IF: 4.012, citations: 13]***

124. U.C. Dumka, **D.G. Kaskaoutis**, S. Verma, S.S. Ningombam, S. Kumar, S. Ghosh, 2021. Silver linings in the dark clouds of COVID-19: Improvement of air quality over India and Delhi metropolitan area from measurements and WRF-CHIMERE model simulations. *Atmospheric Pollution Research* https://doi.org/10.1016/j.apr.2020.11.005 ***[IF: 2.918, citations: 32]***

125. A. Emamian, A. Rashki, **D.G. Kaskaoutis**, A. Gholami, Ch. Opp, N. Middleton, 2021. Assessing vegetation restoration potential under different land uses and climatic classes in northeast Iran. *Ecological Indicators*, 122, 107325, https://doi.org/10.1016/j.ecolind.2020.107325 ***[IF: 4.229, citations: 30]***

126. N.H., Hamzeh, S., Karami, **D.G. Kaskaoutis**, I. Tegen, M. Moradi, Ch. Opp, 2021. Atmospheric Dynamics and Numerical Simulations of Six Frontal Dust Storms in the Middle East Region. *Atmosphere*, 12, 125. https://doi.org/10.3390/atmos12010125. ***[IF: 2.397, citations: 17]***

127. S. Karami, N.H. Hamzeh, **D.G. Kaskaoutis**, A. Rashki, K. Alam, A. Ranjbar, 2021. Numerical simulations of dust storms originated from dried lakes in central and southwest Asia: The case of Aral Sea and Sistan Basin. *Aeolian Research*, 100679, https://doi.org/10.1016/j.aeolia.2021.100679. ***[IF: 2.763, citations: 20]***

128. H. Gholami, A. Mohammadifar, S. Golzari, **D.G. Kaskaoutis**, M.W. Telfer, A.L. Collins, 2021. Using the Boruta algorithm and deep learning models for mapping land susceptibility to atmospheric dust emissions in Iran. *Aeolian Research*, (accepted) ***[IF: 2.763, citations: 17]***

129. **D.G. Kaskaoutis**, G. Grivas, E. Liakakou, N. Kalivitis, G. Kouvarakis, I. Stavroulas, P. Kalkavouras, P. Zarmpas, U.C. Dumka, E. Gerasopoulos, N. Mihalopoulos, 2021. Assessment of the COVID-19 lockdown effects on spectral aerosol scattering and absorption properties in Athens, Greece. *Atmosphere*, ***[IF: 2.397, citations: 13]***

130. Y., Li, Y., Song, **D. G. Kaskaoutis**, J., Zan, R., Orozbaev, L., Tan, X., Chen, 2021. Aeolian dust dynamics in the Fergana Valley, Central Asia, since ~30 ka inferred from loess deposits. Geoscience Frontiers 101180, https://doi.org/10.1016/j.gsf.2021.101180 ***[IF: 4.202, citations: 10]***

131. H., Gholami A., Mohamadifar, S., Rahimi, **D.G. Kaskaoutis**, A.L., Collins, 2021. Predicting land susceptibility to atmospheric dust emissions in central Iran by combining integrated data mining and a regional climate model. *Atmospheric Pollution Research* https://doi.org/10.1016/j.apr.2021.03.005 ***[IF: 2.152, citations: 7]***

132. K., Mohammadpour, M., Sciortino, **D.G. Kaskaoutis**, 2021. Classification of weather clusters over the Middle East associated with high atmospheric dust-AODs in West Iran. *Atmospheric Research*, 105682, https://doi.org/10.1016/j.atmosres.2021.105682 ***[IF: 4.114, citations: 11]***

133. M., Hamidianpour, S.M.A., Jahanshahi, **D.G., Kaskaoutis**, A., Rashki, P.G., Nastos, 2021. Climatology of the Sistan Levar wind: Atmospheric dynamics driving its onset, duration and withdrawal. *Atmospheric Research*, 105711, https://doi.org/10.1016/j.atmosres.2021.105711. ***[IF: 4.114, citations: 10]***

134. M., Zaiani, A., Irbah, D., Djafer, C., Listowski, J., Delanoe, **D.G. Kaskaoutis**, S., Belaid Boualit, F., Chouireb, M., Mimouni, 2021. Study of atmospheric turbidity in a northern tropical region using models and measurements of global solar radiation. *Remote Sensing* 13, 2271, https://doi.org/10.3390/rs13122271 ***[IF: 4.509, citations: 2]***

135. N.A.F.K. Zaman, K.D. Kanniah, **D.G. Kaskaoutis**, M.T. Latif, 2021. Evaluation of Machine Learning Models for Estimating PM2.5 Concentrations across Malaysia. *Applied Sciences*, 11, 7326. https://doi.org/10.3390/app11167326. ***[IF: 2.679, citations: 16]***

136. H. Gholami, A. Mohammadifar, H. Malakooti, Y. Esmaeilpour, S. Golzari, F. Mohammadi, Y. Li, Y. Song, **D.G. Kaskaoutis**, K.E. Fitzsimmons, A.L. Collins, 2021. Integrated modelling for mapping spatial sources of dust in central Asia - An important dust source in the global atmospheric system. *Atmospheric Pollution Research* 12, 101173, https://doi.org/10.1016/j.apr.2021.101173. ***[IF: 4.352, citations: 15]***

137. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, A. Bougiatioti, E. Liakakou, U.C. Dumka, E. Gerasopoulos, N. Mihalopoulos, 2021. Apportionment of black and brown carbon spectral absorption sources in the urban environment of Athens, Greece, during winter. *Science of the Total Environment*, 801, 149739, https://doi.org/10.1016/j.scitotenv.2021.149739. ***[IF: 7.963, citations: 18]***

138. B.R. Parida, S. Bar, **D.G. Kaskaoutis**, A.C., Pandey, S.D., Polade, S., Goswami, 2021. Impact of COVID-19 induced lockdown on land surface temperature, aerosol, and urban heat in Europe and North America. *Sustainable Cities and Society*, 75, 103336, https://doi.org/10.1016/j.scs.2021.103336. ***[IF: 7.587, citations: 37]***

139. R. Sheoran, U.C. Dumka, **D.G. Kaskaoutis**, G. Grivas, K. Ram, J. Prakash, R.K. Hooda, R.K. Tiwari, N. Mihalopoulos, N. 2021. Chemical Composition and Source Apportionment of Total Suspended Particulate in the Central Himalayan Region. *Atmosphere*, 12, 1228. https://doi.org/10.3390/atmos12091228 ***[IF: 2.397, citations: 6]***

140. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, E. Liakakou, U.C. Dumka, E. Gerasopoulos, N. Mihalopoulos, 2021. Effect of aerosol types from various sources at an urban location on spectral curvature of scattering and absorption coefficients. *Atmospheric Research*, 264, 105865, https://doi.org/10.1016/j.atmosres.2021.105865 ***[IF: 5.369, citations: 2]***

141. N.H. Hamzeh, **D.G. Kaskaoutis**, A. Rashki, K. Mohammadpour, 2021. Long-term variability of dust events in southwestern Iran and its relationship with the drought. *Atmosphere*, 12, 1350. https://doi.org/10.3390/atmos12101350. ***[IF: 2.686, citations: 8]***

142. S. Karami, **D.G. Kaskaoutis**, S.S. Kashani, M. Rahnama, A. Rashki, 2021. Evaluation of Nine Operational Models in Forecasting Different Types of Synoptic Dust Events in the Middle East. *Geosciences*, 11, 458. https://doi.org/10.3390/geosciences11110458 ***[Cite Score: 3.4, citations: 4]***

143. I. Stavroulas, G. Grivas, E. Liakakou, P. Kalkavouras, A. Bougiatioti, **D.G. Kaskaoutis**, M. Lianou, K. Papoutsidaki, M. Tsagkaraki, P. Zarmpas, E. Gerasopoulos, N. Mihalopoulos, 2021. Online Chemical Characterization and Sources of Submicron Aerosol in the Major Mediterranean Port City of Piraeus, Greece. *Atmosphere* 12, 1686. https://doi.org/10.3390/atmos12121686. ***[IF: 2.686, citations: 2]***

144. N. MalAmiri, A. Rashki, S.R. Hosseinzadeh, **D.G. Kaskaoutis**, 2022. Mineralogic, geochemical, and textural characteristics of soil and airborne samples during dust storms in Khuzestan, southwest Iran. *Chemosphere*, 131879, https://doi.org/10.1016/j.chemosphere.2021.131879. ***[IF: 7.086, citations: 14]***

145. M. Boroughani, S. Pourhashemi, H. Gholami, **D.G. Kaskaoutis**, 2022. Predicting of dust storm source by combining remote sensing, statistic-based predictive models and game theory in the Sistan watershed, southwestern Asia. *Journal Arid Land*, https://doi.org/10.1007/s40333-021-0023-3 ***[IF: 2.299, citations: 5]***

146. U.C. Dumka, **D.G. Kaskaoutis**, P., Khatri, S.S., Ningombam, R., Sheoran, S., Jade, T.S. Shrungeshwara, M., Rupakheti, 2022. Water vapour characteristics and radiative effects at high-altitude Himalayan sites. *Atmospheric Pollution Research* 13, 101303, https://doi.org/10.1016/j.apr.2021.101303. ***[IF: 4.352, citations: 2]***

147. K. Mohammadpour, M. Sciortino, **D.G. Kaskaoutis**, A. Rashki, 2022. Classification of synoptic weather clusters associated with dust accumulation over southeastern areas of the Caspian Sea (Northeast Iran and Karakum desert). *Aeolian Research* 54, 100771, https://doi.org/10.1016/j.aeolia.2022.100771. ***[IF: 3.336, citations: 8]***

148. K. Mohammadpour, A. Rashki, M. Sciortino, **D.G. Kaskaoutis**, A. Darvishi Boloorani, 2022. A statistical approach for identification of dust-AOD hotspots climatology and clustering of dust regimes over Southwest Asia and the Arabian

Sea. *Atmospheric Pollution Research* 101395, https://doi.org/10.1016/j.apr.2022.101395. ***[IF: 4.352, citations: 9]***

149. R. Dahmardeh Behrooz, M. Tashakor, R. Asvad, A. Esmaili-Sari, **D.G. Kaskaoutis**, 2022. Characteristics and Health Risk Assessment of Mercury Exposure via Indoor and Outdoor Household Dust in Three Iranian Cities. *Atmosphere* 13, 583, https://doi.org/10.3390/atmos13040583. ***[IF: 2.397, citations: 5]***

150. Y. Li, Y. Song, **D.G. Kaskaoutis**, X. Zhang, X. Chen, N. Shukurov, R. Orozbaev, 2022. Atmospheric dust dynamics over Central Asia: A perspective view from loess deposits. *Godwana Research* 109, 150-165, https://doi.org/10.1016/j.gr.2022.04.019 ***[IF: 6.051, citations: 6]***

151. **D.G. Kaskaoutis**, G. Grivas, K. Oikonomou, P. Tavernaraki, K. Papoutsidaki, M. Tsagkaraki, I. Stavroulas, P. Zarmpas, D. Paraskevopoulou, A. Bougiatioti, E. Liakakou, M. Gavrouzou, U.C. Dumka, N. Hatzianastassiou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2022. Impacts of severe residential wood burning on atmospheric processing, water-soluble organic aerosol and light absorption, in an inland city of Southeastern Europe. *Atmospheric Environment* 280, 119139, https://doi.org/10.1016/j.atmosenv.2022.119139 ***[IF: 4.798, citations: 6]***

152. R. Dahmardeh Behrooz, K. Mohammadpour, P. Broomandi, P.G. Kosmopoulos, H. Gholami, **D.G. Kaskaoutis**, 2022. Long-term (2012–2020) PM10 concentrations and increasing trends in the Sistan Basin: The role of Levar wind and synoptic meteorology. *Atmospheric Pollution Research* 13, 101460, https://doi.org/10.1016/j.apr.2022.101460. ***[IF: 4.352, citations: 2]***

153. M. Tashakor, R.D. Behrooz, S.R. Asvad, **D.G. Kaskaoutis**, 2022. Tracing of Heavy Metals Embedded in Indoor Dust Particles from the Industrial City of Asaluyeh, South of Iran. *Int. J. Environ. Res. Public Health* 19, 7905. https://doi.org/10.3390/ijerph19137905 ***[IF: 4.614, citations: 5]***

154. G. Zittis, M. Almazroui, P. Alpert, P. Ciais, W. Cramer, Y. Dahdal, M. Fnais, P. Hadjinicolaou, F. Howari, A. Jrrar, **D.G. Kaskaoutis**, M. Kulmala, G. Lazoglou, X. Lin, N. Mihalopoulos, Y. Rudich, G. Stenchikov, E. Xoplaki, J. Lelieveld, 2022. Climate change and weather extremes in the Eastern Mediterranean and Middle East. *Reviews of Geophysics*, doi: 10.1029/2021RG000762. ***[IF: 24.95, citations: 59]***

155. S. Fadnavis, M.K. Roxy, S. Griessbach, B. Heinold, **D.G. Kaskaoutis**, R. Gautam, 2022. Editorial: Impact of the COVID19 lockdown on the atmosphere. *Front. Environ. Sci*. 10, 1034007, doi: 10.3389/fenvs.2022.1034007 ***[IF: 5.411, citations: 0]***

156. A. Shaheen, R., Wu, R., Yousefi, F., Wang, Q., Ge, **D.G. Kaskaoutis**, J., Wang, P., Alpert, I., Munawar, 2023. Spatio-temporal changes of spring-summer dust AOD over the Eastern Mediterranean and the Middle East: Reversal of dust trends and associated meteorological effects. Atmospheric Research 281, 106509, https://doi.org/10.1016/j.atmosres.2022.106509 ***[IF: 5.965, citations: 1]***

157. D. Paraskevopoulou, **D.G. Kaskaoutis**, G. Grivas, S. Bikkina, M. Tsagkaraki, I.M. Vrettou, K. Tavernaraki, K. Papoutsidaki, I. Stavroulas, E. Liakakou, A. Bougiatioti, K. Oikonomou, E. Gerasopoulos, N. Mihalopoulos, 2023. Brown carbon absorption and radiative effects under intense residential wood burning conditions in Southeastern Europe: New insights into the abundance and absorptivity of methanol-soluble organic aerosols. *Science of the Total Environment*, 860, 160434, https://doi.org/10.1016/j.scitotenv.2022.160434. ***[IF: 10.753, citations: 2]***

158. P. Broomandi, K. Mohammadpour, **D.G. Kaskaoutis**, A. Fathian, S.F. Abdullaev, V.A. Maslov, A. Nikfal, A. Jahanbakhshi, B. Aubakirova, J.R. Kim, A. Satyanaga, A. Rashki, N. Middleton, 2023. A Synoptic- and Remote Sensing-based Analysis of a Severe Dust Storm Event over Central Asia. Aerosol Air Qual. Res. https://doi.org/10.4209/aaqr.220309 ***[IF: 4.53, citations: 0]***

159. **D.G. Kaskaoutis**, M. Pikridas, K. Barmpounis, G. Kassell, D. Logan, M. Rigler, M. Ivančič, K. Mohammadpour, N. Mihalopoulos, J. Lelieveld, J. Sciare, 2023. Aerosol characteristics and types in the marine environments surrounding the East Mediterranean - Middle East (EMME) region during the AQABA campaign. *Atmospheric Environment* 298, 119633, https://doi.org/10.1016/j.atmosenv.2023.119633 ***[IF: 4.798, citations: 2]***

160. R. Yousefi, F. Wang, Q. Ge, A. Shaheen, **D.G. Kaskaoutis**, 2023. Analysis of the Winter AOD Trends over Iran from 2000 to 2020 and Associated Meteorological Effects. *Remote Sensing* 15, 905. https://doi.org/10.3390/rs15040905 ***[IF: 5.349, citations: 1]***

161. S. Karami, **D.G. Kaskaoutis**, Z. Ghassabi, S. Khansalari, 2023. Investigation and model simulation of dry and moist (haboob) convective dust storms in Yazd Province, central Iranian plateau. *Arabian Journal of Geosciences*, 16,241, https://doi.org/10.1007/s12517-023-11338-9. ***[IF: 1.827, citations: 0]***

162. S.R. Asvad, A. Esmaili-Sari, Nader Bahramifar, R.D. Behrooz, A.K. Paschalidou, **D.G. Kaskaoutis**, 2023. Heavy metals contamination status and health risk assessment of indoor and outdoor dust in Ahvaz and Zabol cities, Iran. *Atmospheric Pollution Research* 14, 101727, https://doi.org/10.1016/j.apr.2023.101727. ***[IF: 4.352, citations: 2]***

163. Yue Li, Y. Song, X. Chen, Z. Shi, **D.G. Kaskaoutis**, H. Gholami, Yudong Li, 2023. Late Pleistocene dynamics of dust emissions related to westerlies revealed by quantifying loess provenance changes in North Tian Shan, Central Asia. *Catena* 227, 107101, https://doi.org/10.1016/j.catena.2023.107101. ***[IF: 5.198, citations: 1]***

164. Gholami, H., Mohammadifar, A., Fitzsimmons, K.E., Li, Y., **Kaskaoutis, D.G.**, 2023. Modeling land susceptibility to wind erosion hazards using LASSO regression and graph convolutional networks. *Frontiers Environmental Sciences* 11, 1187658. doi: 10.3389/fenvs.2023.1187658 ***[IF: 5.411, citations: 0]***

165. Yue Li, Y. Song, X. Li, **D.G. Kaskaoutis**, H. Gholami, Yudong Li, 2023. Disentangling variations of dust concentration in Greenland ice cores over the last glaciation: An overview of current knowledge and new initiative. *Earth-Science Reviews* 242, 104451, https://doi.org/10.1016/j.earscirev.2023.104451. ***[IF: 12.038, citations: 0]***

166. Masoom, A., Fountoulakis, I., Kazadzis, S., Raptis, I.-P., Kampouri, A., Psiloglou, B., Kouklaki, D., Papachristopoulou, K., Marinou, E., Solomos, S., Gialitaki, A., Founda, D., Salamalikis, V., **Kaskaoutis, D.**, Kouremeti, N., Mihalopoulos, N., Amiridis, V., Kazantzidis, A., Zerefos, C. S., and Eleftheratos, K., 2023. Investigation of the effects of the Greek extreme wildfires of August 2021 on air quality and spectral solar irradiance. *Atmospheric Chemistry and Physics* 23, 8487–8514, https://doi.org/10.5194/acp-23-8487-2023. ***[IF: 7.197, citations: 0]***

167. D. Paraskevopoulou, S. Bikkina, G. Grivas, **D.G. Kaskaoutis**, M. Tsagkaraki, K. Tavernaraki, N. Mihalopoulos, 2023. A direct method to quantify methanol-soluble organic carbon for Brown Carbon absorption studies. *MethodsX* 11, 102313, https://doi.org/10.1016/j.mex.2023.102313 ***[IF: 1.9, citations: 0]***

***The Journal Impact Factors are for the year 2023. Self-citations of all co-authors are excluded. Total citations: 5893, H-Index: 45, H-10 Index: 119. *[Last update 07/08/2023, sources: SCOPUS, ISI, Google Scholar]*.**

5. Authorship - Monographs – Edited Books

1. **D.G. Kaskaoutis**, 2002. On the investigation of solar radiation components. Measurements vs Models. *Master degree Thesis, Department of Physics, University of Athens, Greece*.
2. **D.G. Kaskaoutis**, 2008. Investigation of the optical properties and types of aerosols over different land use by means of satellite data and AERONET. *PhD Thesis, Department of Physics, University of Ioannina, Greece*.
3. I. Daglis, V. Amiridis, J. Groebner, E. Gerasopoulos, **D. Kaskaoutis**, 2009. Contribution to the Data Acquisition Report from National Observatory of Athens. 2009. *Techniqal Report of the THERMOPOLIS campaign*.
4. **D.G. Kaskaoutis**, H.D. Kambezidis, K.V.S. Badarinath, Shailesh Kumar Kharol, 2010. Dust storm identification via satellite remote sensing. In: Dust Storms: Elemental Compositio3, Causes and Environmental Impacts. Eds: Siniša Brstilo and Quentin Madunic, *Nova Science Publishers, ISBN-13: 978-1608769063*.
5. Alireza Rashki, **Dimitris Kaskaoutis**, C.J.deW. Rautenbach and Patrick Eriksson, 2012. Changes of Permanent Lake Surfaces, and Their Consequences for Dust Aerosols and Air Quality: the Hamoun Lakes of the Sistan Area, Iran. In: Atmospheric Aerosols - Regional Characteristics - Chemistry and Physics. Ed. Dr. Hayder Abdul-Razzak, *INTECH, ISBN 979-953-307-897-6.*
http://www.intechopen.com/articles/show/title/changes-of-permanent-lake-surfaces-and-their-consequences-for-dust-aerosols-and-air-quality-the-hamo
6. **D.G. Kaskaoutis**, 2013. **Current knowledge in the aerosol trends over northern India**. *Indian Aerosol Science and Technology Association* (IASTA) e-Bulletin, Vol. 1, No. 2, June 2013.
7. **D.G. Kaskaoutis**, 2015. **Sistan Basin in eastern Iran: A major dust source for south Asia**. *Aerosol Science and Technology Association* (IASTA) e-Bulletin, Vol. 3, No. 1, January 2015.
8. **D.G. Kaskaoutis**, 2018. The Caspian Sea–Hindu Kush Index (CasHKI): A Climatic Index That Affects Dust Activity Over Southwest Asia. Science Trends, doi: 10.31988/SciTrends.40937, https://sciencetrends.com/the-caspian-sea-hindu-kush-index-cashki-a-climatic-index-that-affects-dust-activity-over-southwest-asia/.
9. **D.G. Kaskaoutis**, J. Polo, 2019. Solar Radiation, Modelling and Remote Sensing. Edited Book, ISBN: 978-3-03921-005-3, https://figshare.com/s/01990c2d5382dac5006d

6. Presentations in National (Greek) Conferences

6.1 Presentations included in conference volumes

1. **D.G. Kaskaoutis,** C.P. Jacovides, D.N. Asimakopoulos, 2002. Comparison of solar spectral radiation components: measurements vs models. *6 COMECAP, Ioannina, Greece, 25-28 September 2002, pp. 107-113 (in Greek).*

2. **D.G. Kaskaoutis,** H.D. Kambezidis, 2006. Investigation on the wavelength dependence of the aerosols in the Greater Athens Area. 8 *COMECAP, Athens, Greece, 24-26 May 2006, pp. 243-250 (in Greek).*
3. **D.G. Kaskaoutis,** H.D. Kambezidis, 2006. Modification of the diffuse-to-direct beam irradiance ratio as a function of the turbidity conditions and solar zenith angle. *8 COMECAP, Athens, Greece, 24-26 May 2006, pp 251-258 (in Greek).*
4. P.G. Kosmopoulos, P.T. Nastos, **D.G. Kaskaoutis**, H.D. Kambezidis, 2007. Investigation of the dust events over Athens in the period 2000-2005 with the use of satellite data. *8 National Geography Conference, Athens, Greece, 5-7 October 2007, (in Greek).*
5. P.G. Kosmopoulos, P.T. Nastos, **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. Columnar aerosol optical properties over central Greece. *9 COMECAP, Thessaloniki, Greece, 28-31 May 2008, pp. 671-678 (in Greek).*
6. K.V.S. Badarinath, D.V. Mahalakshmi, S.K. Kharol, A.R. Sharma, B. Gharai, M.S. Kumar, **D.G Kaskaoutis**, H.D. Kambezidis, 2010. Heatwave conditions over Indian region – A study using satellite data, measurements and mesoscale model. *10 COMECAP, Patra, Greece, 25-28 May 2010.*
7. S.K. Kharol, A.R. Sharma, B. Gharai, K.V.S. Badarinath, **D.G Kaskaoutis**, H.D. Kambezidis, 2010. Aerosol optical depth and UV-B variations over Bay of Bengal during the W-ICARB cruise campaign. *10 COMECAP, Patra, Greece, 25-28 May 2010.*
8. **D.G. Kaskaoutis**, P.T. Nastos, V. Amiridis, P.G. Kosmopoulos, H.D. Kambezidis, 2010. Meteorological patterns associated with intense Saharan dust outbreaks over Greece in winter. *10 COMECAP, Patra, Greece, 25-28 May 2010, pp. 1039-1047.*
9. A. Garyfallou, A. Manolis, P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, 2010. Spatial and temporal variability of the forest fire indices in Greece, during the decade 1991-2001. *10 COMECAP, Patra, Greece, 25-28 May 2010, pp. 322-328.*
10. S.K. Kharol, **D.G. Kaskaoutis**, A.R. Sharma, K.V.S. Badarinath, R.P. Singh, 2012. Influence of land use/land cover changes on atmospheric dynamics, precipitation and aerosols over Rajasthan, India. *11 COMECAP, Athens, 30 May - 1 June, 2012.*
11. **D.G. Kaskaoutis**, P.R. Sinha, S.K. Kharol, P.G. Kosmopoulos, R.K. Manchanda, R.P. Singh, K.V.S. Badarinath, S. Sreenivasan, 2012. Aerosol characteristics over Bay of Bengal during W-ICARB cruise campaign. *11 COMECAP, Athens, 30 May - 1 June, 2012.*
12. **D.G. Kaskaoutis**, R. Gautam, D. Goto, P.G. Kosmopoulos, R.P. Singh, S.N. Singh, M. Sharma, 2012. On the variability of atmospheric aerosols over India during the drought pre-monsoon and monsoon 2002-2003. *11 COMECAP, Athens, 30 May - 1 June, 2012.*
13. P.R. Sinha, **D.G. Kaskaoutis**, R.K. Manchanda, P.G. Kosmopoulos, S. Sreenivasan, 2012. Synergy of different techniques for the aerosol type discrimination: Application over Hyderabad, India. *11 COMECAP, Athens, 30 May - 1 June, 2012.*
14. **D.G. Kaskaoutis** and P.G. Kosmopoulos, 2014. Current state of knowledge about aerosol trends over northern India. *12 COMECAP, Heraklion, Greece, 28 - 31 May, 2014, pp.487-491*.
15. **D.G. Kaskaoutis**, A. Rashki, E.E. Houssos, A. Mofidi, A. Bartzokas, 2014. Meteorological perspectives associated with severe dust storms in the Sistan

region, Iran. *12 COMECAP, Heraklion, Greece, 28 - 31 May, 2014, pp. 492-496*.

16. **D.G. Kaskaoutis**, E.E. Houssos, A. Rashki, A. Bartzokas, M. Legrand, P. Francois, H.D. Kambezidis, 2016. Modulation of Atmospheric Dynamics and Dust Emissions in Southwest Asia by the Caspian Sea—Hindu Kush Index. *13 COMECAP, Thessaloniki, Greece, 19 - 21 September, 2016, In Perspective in Atmospheric Sciences, Springer, ISBN: 978-3-319-35094-3, doi: 10.1007/978-3-319-35095-0, pp. 941-947*.

6.2 Presentations without conference volumes

1. **D.G. Kaskaoutis**, C.P. Jacovides, G.A. Theoharatos, 2002. Hydrology in Epirus: Investigation of the precipitation. *5^{o} National Environmental Conference organized by the Greek Physicist Union, Rhode, Greece, 1-3 November 2002 (in Greek).*
2. **D.G. Kaskaoutis**, 2002. Comparative study of the spectral models SPCTRAL2 and SMARTS2 in simulation of the solar spectral irradiance in Athens. *5^{o} National Environmental Conference organized by the Greek Physicist Union, Rhode, Greece, 1-3 November 2002 (in Greek).*
3. **D.G. Kaskaoutis, 2004**. Atmospheric turbidity in Athens. Comparative study of the aerosol optical depth with the Ångström coefficients. *10^{o} National Conference in Physics organized by the Greek Physicist Union, Loutraki, Greece, 29-31 January 2004 (in Greek).*
4. **D.G. Kaskaoutis, 2004**. Investigation on the solar spectral radiation components. *10^{o} National Conference in Physics organized by the Greek Physicist Union, Loutraki, Greece, 29-31 January 2004 (in Greek).*
5. **D.G. Kaskaoutis**, G. Zarkadoulas, 2004. Comparative study of the aerosol optical properties with the use of two models. *6^{o} National Environmental Conference organized by the Greek Physicist Union, Thessaloniki, Greece, 9-11 December 2004 (in Greek).*
6. **D.G. Kaskaoutis**, G. Zarkadoulas, 2004. Investigation on the air temperature trends and Climatic indices in Arta. *6^{o} National Environmental Conference organized by the Greek Physicist Union, Thessaloniki, Greece, 9-11 December 2004 (in Greek).*
7. B.E. Psiloglou, H.D. Kambezidis, **D.G. Kaskaoutis**, D. Karagiannis, 2018. The Meteorological Radiation Model: Estimating global solar radiation under all-sky conditions in Greece. *14 COMECAP, Alexandroupoli, Greece, 15 - 17 October, 2016.*

7. Presentations in International Conferences

7.1 Presentations included in conference volumes

1. **D. G. Kaskaoutis**, H.D. Kambezidis, E. Stavridakis, 2005. A preliminary study of the solar irradiance components modification under different atmospheric conditions in an urban environment. *2nd Solaris Conference, Athens, 26-27 May 2005, pp. 20-24.*

2. **D. G. Kaskaoutis**, H.D. Kambezidis, E. Stavridakis, 2005. Goodness of the Angstrom fit under different atmospheric conditions in an urban environment. *2nd Solaris Conference, Athens, 26-27 May 2005, pp. 26-30.*
3. A. Adamopoulos, H.D. Kambezidis, G. Giavis, **D.G. Kaskaoutis**, 2005. Case studies on particle radius in a vertical atmospheric column over Athens retrieved from solar spectral measurements. *2nd Solaris Conference, Athens, 26-27 May 2005, pp. 8-12.*
4. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, H.D. Kambezidis, 2007. Impact of dust storm over Indian region on ground reaching solar radiation – a case study using multi-satellite data and ground measurements. *3rd Solaris Conference, New Delhi, India, 7-9 February 2007, pp. 169-179.*
5. **D.G. Kaskaoutis**, P.G. Kosmopoulos, H.D. Kambezidis, P.T. Nastos, 2007. Investigation of the Saharan dust events over Athens in the period 2000-2005. *Bremen Aerosol Workshop, Bremen, Germany, 21-22 June 2007, [A.A. Kokhanovsky, G. de Leuw Eds. p. 33]*.
6. **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. Investigation on the aerosol optical properties under certain conditions in Athens, Greece. *4rh Solaris Conference, Hong-Kong, China, 4-5 December 2008, pp. 179-186.*
7. H.D. Kambezidis, **D.G. Kaskaoutis**, 2009. Aerosol characteristics during the severe forest fires in W. Greece during August 2007. *Determination of Atmospheric Aerosol Properties Using Satellite Measurements. Bonn, Germany, 17-19 August 2009 [A. A. Kokhanovsky, S. Kinne, Eds, p. 49]*
8. G. Tsaknakis, V. Amiridis, H. Kambezidis, A. Papayannis, P. Kokkalis, R.E. Mamouri, **D. Kaskaoutis**, G. Georgousis, G. Avdikos, 2009. Intercomparison of lidar and ceilometer retrievals for aerosol and Planetary Boundary Layer profiling over Athens, Greece. *8th International Symposium on Tropospheric Profiling: Integrations of Needs, Technologies and Applications, 18-23 October 2009, Delft, The Netherlands (in press).*
9. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, Anu Rani Sharma, V. Ramaswamy, H.D. Kambezidis, 2010. Long-range Transport of dust aerosols over Indian region – A study using satellite data and mesoscale model. *Indian Aerosol Science and Technology Association (IASTA) conference on aerosol & clouds: climate change perspectives. Darjeeling, India, 24-26 March 2010, pp. 399-402, ISSN: 0971-4570*.
10. **D.G. Kaskaoutis,** Shailesh Kumar Kharol, K.V.S. Badarinath, 2010. The role of aerosol types in the modification of solar spectral radiation. *Indian Aerosol Science and Technology Association (IASTA) conference on aerosol & clouds: climate change perspectives. Darjeeling, India, 24-26 March 2010, pp. 176-179, ISSN: 0971-4570*.
11. **D.G. Kaskaoutis,** H.D. Kambezidis, P.T. Nastos, Shailesh Kumar Kharol, Anu Rani Sharma, K.V.S. Badarinath, 2010. Vertical aerosol profiles over Athens during intense dust events in winter. *Indian Aerosol Science and Technology Association (IASTA) conference on aerosol & clouds: climate change perspectives. Darjeeling, India, 24-26 March 2010, pp. 75-79, ISSN: 0971-4570*.
12. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, Anu Rani Sharma, V. Ramaswamy, H.D. Kambezidis, 2010. Long-range transport of dust aerosols over Indian region – A study using satellite data and mesoscale model. [P-Sources.52 ID:4347, p. 37]. *12th Symposium of the International Commission*

on Atmospheric Chemistry and Global Pollution (iCACGP) and 11th Science Conference of the International Global Atmosphere Chemistry (IGAC) Project, Dalhousie University, Halifax, Canada, 11-16 July 2010.

13. **D.G. Kaskaoutis**, Waseem Mehdi, Rajesh Kumar, R.P. Singh, R. Gautam, R. K. Jenamani, 2011. NO_2 Variations over India (2005-2010) using OMI - AURA data. *World Climate Reasearch Program (WCRP) open science conference, 24-28 October, Denver, USA.*
14. M. Kafatos, A. K. Prasad, H. M. El-Askary, **D.G. Kaskaoutis**, 2012. Correlation, Vertical Distribution And Column Integrated Characteristics of Aerosols During Winter-time Dust Storms Over The Mediterranean Region. *26º International Laser Radar Conference, Porto Heli, Greece, 25-29 June 2012.*
15. R.P. Singh, M. Sharma, **D.G. Kaskaoutis**, 2013. Changes in Surface Irradiance and Meteorological Parameters Associated with the Annular Solar Eclipse of 15 January 2010. *AIP Conf. Proc., 1531, pp. 600-603, doi: 10.1063/1.4804841.*
16. **D.G. Kaskaoutis**, E.E. Houssos, A. Rashki, U.C. Dumka, A. Bartzokas, 2014. Sistan dust storms and influence over Arabian Sea and Indian subcontinent. *Indian Aerosol Science and Technology Association (IASTA), Varanasi 11-13 November 2014, Vol. 21, Issue 1& 2, ISSN: 09714510, pp. 200-202.*
17. U.C. Dumka, **D.G. Kaskaoutis**, M.K. Srivastava P.C.S. Devara, 2014a. Light scattering enhancement factor over an elevated site in central Himalayan region. *Indian Aerosol Science and Technology Association (IASTA), Varanasi 11-13 November 2014, Vol. 21, Issue 1&2, ISSN: 09714510, pp. 128-130.*
18. U.C. Dumka, **D.G. Kaskaoutis**, Y. Bhavani Kumar, Narendra Singh, P.C.S. Devara, Ram Sagar, 2014b. Vertical distribution of aerosol extinction over astronomical sites in India. *Indian Aerosol Science and Technology Association (IASTA), Varanasi 11-13 November 2014, Vol. 21, Issue 1&2, ISSN: 09714510, pp. 433-434.*
19. U.C. Dumka, **D.G. Kaskaoutis**, Yogesh Kant, Vijay Sridhar, M.K. Srivastava P.C.S. Devara, 2014c. Temporal variability in Black Carbon mass concentration over Gangetic Himalayan region. *Indian Aerosol Science and Technology Association (IASTA), Varanasi 11-13 November 2014, Vol. 21, Issue 1&2, ISSN: 09714510, pp. 125-127.*
20. U.C. Dumka, **D.G. Kaskaoutis**, M.K. Srivastava P.C.S. Devara, 2014d. Diurnal variation of aerosol optical depth over central Himalayan region. *Indian Aerosol Science and Technology Association (IASTA), Varanasi 11-13 November 2014, Vol. 21, Issue 1& 2, ISSN: 09714510, pp. 122-124.*
21. **D.G. Kaskaoutis**, A. Rashki, E.E. Houssos, A. Bartzokas, P. Francois, M. Legrand, H.D. Kambezidis, 2016. The Caspian Sea – Hindu Kush Index (CasHKI): definition, long-term trends and meteorological influences over southwest Asia. *The First of International Conference on Dust, Ahvaz, Iran, 2-4 March 2016.*
22. U.C. Dumka, P.C.S. Devara, **D.G. Kaskaoutis**, Sarvan Kumar, 2016. Scattering coefficient over Panchgaon a remote location in northwestern Indo-Gangetic plain. *Indian Aerosol Science and Technology Association (IASTA), Ahmedabad, 6-8 December 2016, Session 5, pp. 385-387.*
23. U.C. Dumka, P.C.S. Devara, **D.G. Kaskaoutis**, Sarvan Kumar, S. Tiwari, A.K. Srivastava, 2016. Characteristics of carbonaceous aerosols over Panchgaon a remote location in northwestern Indo-Gangetic plain. *Indian Aerosol Science and Technology Association (IASTA), Ahmedabad, 6-8 December 2016, Session 7, pp. 569-570.*

24. N.A.F.K. Zaman, K.D. Kanniah, **D.G. Kaskaoutis**, 2018. Satellite data for upscalling urban air pollution in Malaysia. I*OP Conf. Series: Earth and Environmental Science,* 169, 012036, doi :10.1088/1755-1315/169/1/012036.

25. **D.G. Kaskaoutis**, A. Rashki, A. Mofidi, U.C. Dumka, 2018. Dust storm over the Arabian Sea during the summer season - The July 2016 case. *Indian Aerosol Science and Technology Association (IASTA), Delhi, 26-28 November 2018, pp. 533-536.*

26. U.C. Dumka, P.C.S. Devara, **D.G. Kaskaoutis**, R. Kumar, S. Kumar, S. Tiwari, 2018. Fossil fuel vs wood burning black carbon components in southern Delhi outskirts. *Indian Aerosol Science and Technology Association (IASTA), Delhi, 26-28 November 2018, pp. 42-43.*

27. U.C. Dumka, S. Tiwari, **D.G. Kaskaoutis**, S.D. Attri, V.K. Soni, P.D. Safai, N. Singh, 2018. Aerosol and pollutant assessment during wintertime in Delhi: The WIFEX campaign. *Indian Aerosol Science and Technology Association (IASTA), Delhi, 26-28 November 2018, pp. 44-45*.

28. S. Tiwari, **D.G. Kaskaoutis**, V. Soni, S.D. Attri, A.K. Singh, 2018. Characteristics and source apportionment of aerosol over Varanasi. *American Geophysical Union, 2018, 2018AGUFM.A41G3028T, Washington D.C., 10-14 December 2018*.

29. F. Minvielle, I. Chiapello, C. Bouet, **D.G. Kaskaoutis**, B. Laurent, M. Legrand, B. Marticorena, A. Rashki, 2019. Modeling analysis and satellite observations of mineral dust event in the Sistan region. International conference on Aeolian research, Bordeaux, France 25-29 June 2018.

30. A. Rashki, **D.G. Kaskaoutis**, 2019. Assessment of the dust sources over Central and Southwest Asia with emphasis on the Sistan dust storms. *Central Asia Dust Conference (CADUC), Dushanbe, Tajikistan, 8-12 April, 2019.*

31. A. Rashki, **D.G. Kaskaoutis**, 2020. Contrasting wind regimes (Shamal vs monsoon) for dust transport over south Iran. *1st International Conference on Applications of Air Quality in Science and Engineering Purposes Kuwait, 10–12 February 2020*.

32. B. Psiloglou, H.D. Kambezidis, K.V. Varotsos, **D.G. Kaskaoutis**, D. Karagiannis, K. Petrinoli, A. Gavriil, K. Kavadias, C. Giannakopoulos, 2021. Historical and Future Typical Meteorological Years for 33 locations in Greece: a handy tool for various applications. *EMS Annual Meeting*, online, 6–10 Sep 2021, EMS2021-337, https://doi.org/10.5194/ems2021-337.

33. A. Rashki, K. Mohammadpour, **D.G. Kaskaoutis**, D.V. Simonenkov, K.A., Shukurov, 2021. Role of synoptic meteorological circulation in the formation of dust outbreaks in Aral-Caspian Sea depressions/deserts: 7-9 September 2021 case, XXVIII Workshop "Siberian Aerosols", 2021-11-21.

7.2 Presentations without conference volumes

1. H.D. Kambezidis, **D.G. Kaskaoutis**, P. Kassomenos, 2005. Confrontation of forest fires in Greece. *13th Intern. Symposium on "Environmental pollution and its impact on life in the Mediterranean region", Thessaloniki, 8-12 October 2005.*

2. H.D. Kambezidis, **D.G. Kaskaoutis**, P. Kassomenos, D. Melas, A. Papadopoulos, O. Yenigun, U. Anteplioglu, U. Im, S. Topcu, S. Incecik, T.T.

Onay, 2006. An investigation of forest fire risk assessment in selected areas in Greece and Turkey. *V International Conference on Forest Fire Research, Figueira da Foz, Coimbra, Portugal, 27-30 November 2006.*

3. **D.G. Kaskaoutis**, H.D. Kambezidis, P. Kassomenos, 2007. Investigation on the ozone and trace gases contribution to the total optical depth in a polluted urban environment. *3rd Solaris Conference, New Delhi, India, 7-9 February 2007.*
4. K.V.S. Badarinath, Shailesh Kumar Kharol, **D.G. Kaskaoutis**, H.D. Kambezidis, P.T. Nastos, 2007. Variation of aerosol properties in a tropical urban environment during intense cyclone period – A case study. *EGU Conference, Vienna, Austria, 15-20 April 2007, SRef-ID: 1607-7962/gra/EGU2007-A-09922.*
5. **D.G. Kaskaoutis**, H.D. Kambezidis, K.V.S. Badarinath, P.G. Kosmopoulos, P.T. Nastos, 2007. Aerosol climatology over two AERONET sites: an overview. *EGU Conference, Vienna, Austria, 15-20 April 2007, SRef-ID: 1607-7962/gra/EGU2007-A-09771.*
6. P.G. Kosmopoulos, **D.G. Kaskaoutis**, H.D. Kambezidis, P.T. Nastos, K.V.S. Badarinath, 2007. Identification of Saharan dust events over Athens using remote sensing data and back-trajectory analysis. *EGU Conference, Vienna, Austria, 15-20 April 2007, Sref-ID: 1607-7962/gra/EGU2007-A-09844.*
7. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, H.D. Kambezidis, D. Zevgolis, 2007. Investigation on the impact of dust aerosol on solar radiation. *IAMAS Conference, Perrugia, Italy, 2-13 July 2007.*
8. Shailesh Kumar Kharol, K.V.S. Badarinath, V. Krishna Prasad, E.U.B. Reddi, **D.G. Kaskaoutis**, H.D. Kambezidis, 2007. Effect of anthropogenic activities on UV Index variations – A study using ground-based measurements and satellite data. IASTA-***2007*** *Conference on Emerging Trends in Aerosols: Technology & Applications. New Delhi, India, 14-16 November 2007.*
9. Shailesh Kumar Kharol, K.V.S. Badarinath, **D.G. Kaskaoutis**, H.D. Kambezidis, 2008. Impact of Biomass Burning and Dust loading on aerosol properties over urban region of Hyderabad. *15th National Space Science Symposium Symposium, Ooty India, 26-29 February 2008.*
10. P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2008. Discrimination of different aerosol types over Athens, Greece, and investigation of the aerosol transport mechanisms. *15th National Space Science Symposium, Ooty India, 26-29 February 2008.*
11. P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2008. Seasonal variation of columnar aerosol optical properties over Athens, Greece, based on MODIS data. *15th National Space Science Symposium, Ooty India, 26-29 February 2008.*
12. P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, Shailesh Kumar Kharol, K.V.S. Badarinath, 2008. Investigation on the aerosol transport mechanisms over Athens, Greece combining satellite data and back-trajectory analysis. *EGU Conference, Vienna, Austria, 13-18 April 2008.*
13. K.V.S. Badarinath, Shailesh Kumar Kharol, **D.G. Kaskaoutis**, H.D. Kambezidis, P.T. Nastos, 2008. Aerosol radiative forcing in a tropical urban environment - A study using ground based measurements and radiative transfer model. *EGU Conference, Vienna, Austria, 13-18 April 2008.*
14. **D.G. Kaskaoutis**, H.D. Kambezidis, P.G. Kosmopoulos, P.T. Nastos, 2008. The long-range transport of different aerosol types over Athens, Greece.

European Aerosol Conference 2008, Thessaloniki, Greece, 24-29 August 2008, paper No: T06A153P.

15. K.V.S. Badarinath, Shailesh Kumar Kharol, Anu Rani Sharma, H.D. Kambezidis, **D.G. Kaskaoutis**, P.T. Nastos, 2009. Satellite observations for intense dust loading over Indian region during SIDR cyclone. *EGU Conference, Vienna, Austria, 19-24 April 2009, Geophys. Res. Abstracts 11, EGU2009-6124.*

16. **D.G. Kaskaoutis**, H.D. Kambezidis, P.T. Nastos, P.G. Kosmopoulos, Shailesh Kumar Kharol, K.V.S. Badarinath, 2009. Satellite remote sensing of long-range transported dust storm over Eastern Mediterranean and Greece. *EGU Conference, Vienna, Austria, 19-24 April 2009, Geophys. Res. Abstracts 11, EGU2009-6083.*

17. **D.G. Kaskaoutis**, P.T. Nastos, P.G. Kosmopoulos, H.D. Kambezidis, S.K. Kharol, K.V.S. Badarinath, 2009. Spatio-temporal distribution of absorbing and non-absorbing aerosols derived from Aura-OMI Aerosol Index over Greece. *EGU Conference, Vienna, Austria, 19-24 April 2009, Geophys. Res. Abstracts 11, EGU2009-6100.*

18. **D.G. Kaskaoutis**, M.C.R. Kalapureddy, P.C.S. Devara, H.D. Kambezidis, P. G. Kosmopoulos, P. T. Nastos, 2009**.** Aerosol optical characteristics over the Arabian Sea during the pre-monsoon season. *EGU Conference, Vienna, Austria, 19-24 April 2009, Geophys. Res. Abstracts 11, EGU2009-0.*

19. M.C.R. Kalapureddy, **D.G. Kaskaoutis**, P. Ernast Raj, P.C.S. Devara, H.D. Kambezidis, P.G. Kosmopoulos, P.T. Nastos, 2009. Aerosol type Identification over the Arabian Sea in the pre-monsoon season during the ICARB campaign. *EGU Conference, Vienna, Austria, 19-24 April 2009, Geophys. Res. Abstracts 11, EGU2009-0.*

20. **D.G. Kaskaoutis,** P.T. Nastos, P.G. Kosmopoulos, M.C.R. Kalapureddy, 2010. Spatio-temporal variation of Aerosol Optical Depth over Greece based on 5-years OMI observations. *EGU Conference, Vienna, Austria, 2-7 May 2010, Geophys. Res. Abstracts 12, EGU2010-7254.*

21. P.T. Nastos, K. Chelmi, **D.G. Kaskaoutis,** 2010. Multi-decadal variations in the cloud optical depth over eastern Mediterranean. *EGU Conference, Vienna, Austria, 2-7 May 2010, Geophys. Res. Abstracts 12, EGU2010-7245.*

22. H.D. Kambezidis, D. Demetriou, **D.G. Kaskaoutis**, P.T. Nastos, 2010. Solar dimming/brightening in the Mediterranean. *EGU Conference, Vienna, Austria, 2-7 May 2010, Geophys. Res. Abstracts 12, EGU2010-PREVIEW*

23. S.K. Kharol, K.V.S. Badarinath, A.R. Sharma, V.K. Prasad, **D.G. Kaskaoutis**, P.T. Nastos, H.D. Kambezidis, 2010. Impact of tropical cyclones on aerosol properties over urban region of Hyderabad, India. *EGU Conference, Vienna, Austria, **2-7** May 2010, Geophys. Res. Abstracts 12, EGU2010-7245.*

24. S.K. Kharol, A.R. Sharma, K.V.S. Badarinath, **D.G. Kaskaoutis**, H.D. Kambezidis, 2010. Aerosol optical properties and types over the tropical urban region of Hyderabad, India. *38th COSPAR Scientific Assembly, Bremen, Germany, 18-25 July 2010, [A11-0193-10].*

25. **D.G. Kaskaoutis**, Shailesh Kumar Kharol, H.D. Kambezidis, P.T. Nastos, Anu Rani Sharma, and K.V.S. Badarinath, 2010. Capability of the CALIPSO lidar observations to detect the dust source regions. *38th COSPAR Scientific Assembly, Bremen, Germany, 18-25 July 2010, [A11-0035-10].*

26. **D.G. Kaskaoutis**, Shailesh Kumar Kharol, K. Krishna Moorthy, M.C.R. Kalapureddy, Anu Rani Sharma, K.V.S. Badarinath, S.K. Satheesh, 2010.

Decadal variations in net downward shortwave radiation over South Asia - solar dimming. *AOGS Conference, Atmospheric Science (AS09), Hyderabad, India, 5-9 July, 2010.*

27. **D.G. Kaskaoutis**, Shailesh Kumar Kharol, K. Krishna Moorthy, P.T. Nastos, M.C.R. Kalapureddy, Anu Rani Sharma, K.V.S. Badarinath, S.K. Satheesh, 2010. Aerosol trends over South Asia as detected by MODIS in the last decade. *AOGS Conference, Atmospheric Science (AS09), Hyderabad, India, 5-9 July, 2010.*

28. P.G. Kosmopoulos, **D.G. Kaskaoutis**, P.T. Nastos, 2010. Investigation of the seasonality, intensity and inter-annual trends of Saharan dust exposure towards the tropical North Atlantic and Mediterranean Sea in the period 2004-2009. *AOGS Conference, Atmospheric Science (AS13), Hyderabad, India, 5-9 July, 2010.*

29. R.P. Singh, **D.G. Kaskaoutis**, W. Medhi, M. Sharma, 2011. Seasonal trends of atmospheric aerosols over India sub-continent. *EGU Conference, Vienna, Austria, 3-8 April 2011, Geophys. Res. Abstracts 13, EGU2011-5392.*

30. A.R. Rashki, **D.G. Kaskaoutis**, P. Gupta, C.J.de W. Rautenbach, P.G. Eriksson, 2011. Assessment of dust concentration and sediment load of Dust Storms in the Sistan region of Iran. *The seventh Asian aerosol conference, XI'AN, China, 17-20 August, 2011*.

31. P.G. Kosmopoulos, **D.G. Kaskaoutis**, A.K. Prasad, P.R. Sinha, A.R. Rashki, 2011. Spatial and vertical distribution of Sahara dust event over eastern Mediterranean in winter using remote sensing observations. *6th International Workshop on Sand/Dust Storms and Associated Dustfall. Athens, Greece, 7-9 September 2011*.

32. P.R. Sinha, **D.G. Kaskaoutis**, R.K. Manchanda, S. Sreenivasan, K. Krishnamoorthy, S. Suresh Babu, 2012. Aerosol characteristics over Bay of Bengal during winter: Results from W-ICARB experiment. *39th COSPAR Scientific Assembly, Mysore, India, 14-22 July, 2012*.

33. P.R. Sinha, R.K. Manchanda, **D.G. Kaskaoutis**, S. Sreenivasan, 2012. Measurements of Aerosol Vertical Distribution and Columnar Properties: Role of Boundary Layer and Long Range Transport. *39th COSPAR Scientific Assembly, Mysore, India, 14-22 July, 2012*.

34. **D.G. Kaskaoutis** and P.G. Kosmopoulos, 2012. Atmospheric research over Indian sub-continent using GIOVANNI data. *Gregory G. Leptoukh Online Giovanni Workhop, 25-27 September, 2012*.

35. **D.G. Kaskaoutis**, E.E Houssos, R. Gautam, A. Bartzokas, R.P. Singh, P.G. Kosmopoulos, S.K. Kharol, P.T. Nastos, 2012. Analysis of synoptic weather and atmospheric conditions associated with aerosol episodes over Indo-Gangetic Plains, India. Abstract 1480438, *AGU Fall Meeting, 3-7 December 2012, San Francisco, USA (poster presentation).*

36. Anu Rani Sharma, K.V.S. Badarinath, **D.G. Kaskaoutis**, Shailesh Kumar Kharol, H. Kambezidis, 2012. Solar dimming over the tropical urban region of Hyderabad, India. *International Conference on emerging trends in physics for environmental monitoring and management. Patiala, India, 17-19 December 2012*.

37. **D.G. Kaskaoutis**, P.G. Kosmopoulos, 2013. The role of meteorology on atmospheric dynamics, air mass transport and aerosol characteristics. *IITM-WMO seminar on "Metropolitan Air Quality Forecasting and Services" (SAFAR), Pune, India, 30 April 2013.*

38. Shailesh Kumar Kharol, **D.G. Kaskaoutis**, Anu Rani Sharma, R.P. Singh, 2013. Long-term (1951-2007) rainfall trends around six Indian cities: Evidence of anthropogenic influence. *IITM-WMO seminar on "Metropolitan Air Quality Forecasting and Services" (SAFAR), Pune, India, 30 April 2013*.

39. A.R. Rashki, **D.G. Kaskaoutis**, 2013. Dryness of ephemeral lakes and consequences for dust storm activity in the Sistan region, southeastern Iran. *International Workshop on "Changing Chemistry in Changing Climate: Monsoon" (C4), Pune, India 1-3 May 2013*.

40. **D.G. Kaskaoutis**, P.G. Kosmopoulos, 2013. The exceptional hot 2007 summer in Eastern Mediterranean and the Greek wildfires: Pollution levels and Climate Implications. *International Workshop on "Changing Chemistry in Changing Climate: Monsoon" (C4), Pune, India 1-3 May 2013*.

41. **D.G. Kaskaoutis**, E.E Houssos, P.R. Sinha, P.T. Nastos, A. Bartzokas, R. Gautam, P.G. Kosmopoulos, S.K. Kharol, R.P. Singh, 2013. The role of meteorology in the accumulation of aerosols over Ganges Basin: Climate implications during severe aerosol episodes. *Workshop on Atmospheric Composition and the Asian Summer Monsoon (ACAM), Kathmandu, Nepal, 9-12 June 2013*.

42. P.R. Sinha, **D.G. Kaskaoutis**, R.K. Manchanda, Y.B. Kumar, D.K. Ojha, S. Sreenivasan, R. Vasudevan, 2013. Aerosol vertical distribution and their modification in the atmosphere over the urban region of Hyderabad, India. *Workshop on Atmospheric Composition and the Asian Summer Monsoon (ACAM), Kathmandu, Nepal, 9-12 June 2013*.

43. Deepti Sharma, Atinderpal Singh, Darshan Singh, **D. G. Kaskaoutis**, 2013. Case study of two intense dust storms on aerosol characteristics over Patiala, Punjab, India. *10th AOGS Annual Meeting, Brisbane, Australia, 24-28 June 2013*.

44. A. Rashki, **D.G. Kaskaoutis**, M. Legrand, 2014. Lakes dryness and Meteorological complex associated with Aeolian sand dunes/dust cycle over south West Asia. *8th International Conference on Aeolian Research (ICAR VIII), Lanzhou, China, 21-25 July, 2014*.

45. U.C. Dumka, and **D.G. Kaskaoutis**, 2014. Aerosol Intensive Properties over Gangetic Himalayan Region. *2014 International Aerosol Conference, Busan, Korea, 31 August - 5 September 2014*.

46. U.C. Dumka, **D.G. Kaskaoutis**, P.C.S. Devara, Ram Sagar, 2015. Aerosol optical properties over the central Gangetic Himalayan region based on in-situ measurements during GVAX campaign. *Vigyan Bharati Conference, Goa, India, February 2015*.

47. U.C. Dumka, G. Titos, **D.G. Kaskaoutis**, L. Alados-Arboledas, Narendra Ojha, P.C.S. Devara, Ram Sagar, 2015. Aerosol optical properties and hygroscopic growth over Gangetic-Himalayan region during GVAX campaign. *3rd RICTA conference, Elche, Spain, 29 June – 1 July 2015*.

48. **D.G. Kaskaoutis**, A. Rashki, P. Francois, U.C. Dumka, E.E. Houssos, M. Legrand, 2015. The role of pressure anomaly and Inter-Tropical convergence zone on modulating dust outbreaks in southwest Asia: The 1-3 July 2014 case. *3rd RICTA conference, Elche, Spain, 29 June – 1 July 2015*.

49. **D.G. Kaskaoutis**, H.D. Kambezidis, B.E. Psiloglou, 2015. Modification of solar spectral irradiance due to atmospheric aerosol: A modelling approach. *3rd RICTA conference, Elche, Spain, 29 June – 1 July 2015*.

50. **D.G. Kaskaoutis**, H.D. Kambezidis, B.E. Psiloglou, 2015. Atmospheric circulation patterns and Sahara-dust transport pathways over Greece. *15th European Aerosol Conference, Milan, Italy, 6 - 11 September, 2015*.

51. **D.G. Kaskaoutis**, E. Houssos, R. Gautam, R.P. Singh, A. Rashki, U.C. Dumka, 2016. Atmospheric circulation feedback on west Asian dust and Indian monsoon rainfall. *Geophys. Res. Abstracts*, vol. 18, EGU2016-10964.

52. I. Chiapello, F. Minvielle, M. Legrand, B. Laurent, C. Bouet, G. Siour, B. Marticorena, A. Rashki, **D.G. Kaskaoutis**, 2017. Satellite observations of mineral dust in the Sistan region. *A-Train Symposium 2017, Pasadena, California, 19-21 April 2017*.

53. N.A.F.K. Zaman, K.D. Kanniah, **D.G. Kaskaoutis**, 2018. Satellite data for upscalling urban air pollution in Malaysia. *International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2018), Kuala Lumpur, Malaysia, 24-25 April 2018*.

54. A. Rashki, **D.G. Kaskaoutis**, 2018. Identification of high-resolution dust sources and dynamics over Hamoun ephemeral lakes using satellite image processing. *Intern. Conf. on Aeolian Research, 25 - 29 June 2018, Bordeaux, France*.

55. U.C. Dumka, Suresh Tiwari, **D.G. Kaskaoutis**, V.K. Soni, S.D. Attri, Sarvan Kumar, 2019. Source apportionment of black carbon aerosols over Ranichauri a high altitude remote location in central Himalayan forest. *5th International SKYNET workshop, 13-15 February, 2019, IMD Delhi*.

56. U.C. Dumka, Shantikumar S Ningombam, **D.G. Kaskaoutis**, Dorje Angchuk, 2019. Aerosol characteristics at high-altitude location over western trans-Himalayan region. *C2E2 Himalaya 2019, 18-20 April 2019, IIT Mandi*.

57. E. Liakakou, I. Stavroulas, **D.G. Kaskaoutis**, G. Grivas, D. Paraskevopoulou, U.C. Dumka, M. Tsagkaraki, A. Bougiatioti, K. Oikonomou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2020. Levels and sources of black carbon long-term measurements in Athens, Greece. *International Conference on Air Quality – Science and Application 12th International Conference on Air Quality, Thessaloniki, 9-13 March 2020*.

58. E. Liakakou, I. Stavroulas, **D.G. Kaskaoutis**, A. Bougiatioti, D. Paraskevopoulou, M. Tsagkaraki, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2019. Black Carbon monitoring in the Athens urban background environment over the period 2015-2018. *Final ACTRIS-2 General Meeting, 1 - 4 April 2019, Darmstadt, Germany*.

59. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, E. Liakakou, K. Dimitriou, E. Gerasopoulos, N. Mihalopoulos, 2020. Identification of key aerosol types in Athens based on long-term in situ optical and chemical properties. *2nd Scientific Conference PANACEA, Web Conferencing, 29 September –1 October 2020*.

60. G. Kastrinaki, D. Paraskevopoulou, **D.G. Kaskaoutis**, A. Bougiatioti, N. Hatzianastassiou, N. Mihalopoulos, 2021. Winter-time aerosol chemical composition in Northern Greece: Biomass burning effect. *European Aerosol Conference - EAC 2021, 30 Aug - 3 Sep 2021*.

61. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, A. Bougiatioti, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos, 2021. Assessment of the spectral absorptions by Black and Brown Carbon for different sources: Application in Athens. *Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East Virtual Workshop, p. 27, Cyprus, 11-12 October 2021*.

62. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, A. Bougiatioti, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos, 2021. Optical properties and the curvature effect in spectral scattering and absorption coefficients for key aerosol types identified in Athens. *Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East Virtual Workshop, p. 27, Cyprus, 11-12 October 2021*.
63. M. Pikridas, **D.G. Kaskaoutis**, N. Mihalopoulos, K. Barbounis, J. Lelieveld, J. Sciare, 2022. Optical properties and dominant types of aerosols in the marine environments surrounding the East Mediterranean - Middle East (EMME) region during the AQABA cruise. *EGU Conference, Vienna, Austria, 23-27 May 2022.*
64. **D.G. Kaskaoutis**, G. Grivas, E. Liakakou, A. Bougiatioti, I. Stavroulas, D. Paraskevopoulou, P. Tavernaraki, M. Tsagkaraki, K. Papoutsidaki, P. Zarmpas, K. Oikonomou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2022. Effects of residential wood burning emissions on atmospheric chemistry and light absorption. *1st ACTRIS Science Conference (hybrid), 11-13 May 2022*.
65. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, A. Bougiatioti, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos, 2022. A new method for estimating spectral absorptions of black carbon, brown carbon and secondary organic carbon from fossil fuel and biomass burning sources. *1st ACTRIS Science Conference (hybrid), 11-13 May 2022*.
66. F.-A. Kozonaki, R.D. Behrooz, K. Papoutsidaki, M. Ganjali, M. Tashakor, **D.G. Kaskaoutis**, E. Liakakou, N. Mihalopoulos, 2022. Airborne dust chemistry and health risk assessment in the Sistan Basin, southeast Iran. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
67. G. Kastrinaki, D. Paraskevopoulou, P. Baltzopoulou, E. Papaioannou, **D.G. Kaskaoutis**, A. Bougiatioti, N. Hatzianastassiou, N. Mihalopoulos, 2022. Physicochemical characterization and oxidative potential of winter-time aerosol under intensive biomass burning phenomena. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
68. A. Bougiatioti, M. Desservettaz, I. Stavroulas, **D.G. Kaskaoutis**, E. Liakakou, M. Tsagkaraki, M. Ramonet, M. Delmotte, N. Hatzianastassiou, N. Mihalopoulos, 2022. Emission of BC and trace metals at an urban location impacted by wood burning. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
69. K. Petrinoli, **D.G. Kaskaoutis**, A. Bougiatioti, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos, 2022. Investigation of the mixing layer height derived from ceilometer measurements in Athens, Greece and implications for air quality. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
70. R.D. Behrooz, D.G. Kaskaoutis, G. Grivas, A. Esmaili-Sari, N. Bahramifar, N. Mihalopoulos, 2022. Airborne dust chemistry and health risk assessment in the Sistan Basin, southeast Iran. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
71. **D.G. Kaskaoutis**, G. Grivas, I. Stavroulas, E. Liakakou, A. Bougiatioti, U.C. Dumka, K. Dimitriou, E. Gerasopoulos, N. Mihalopoulos, 2022. Identification of key aerosol types in Athens: Optical properties and the curvature effect in spectral scattering and absorption coefficients. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.
72. I. Stavroulas, M. Desservetaz, K. Petrinoli, A. Bougiatioti, E. Liakakou, K. Koukoulakis, G. Grivas, **D.G. Kaskaoutis**, N. Hatzianastasiou, E.

Gerasopoulos, E. Bourtsoukidis, J. Sciare, N. Mihalopoulos, 2022. Chemical composition, sources and insights on submicron aerosol atmospheric processing, during wintertime outstanding smog episodes. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.

73. **D.G. Kaskaoutis**, D. Paraskevopoulou, G. Grivas, S. Bikkina, E. Liakakou, A. Bougiatioti, I. Stavroulas, M. Tsagkaraki, K. Papoutsidaki, K. Oikonomou, M. Gavrouzou, N. Hatzianastassiou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2022. Light absorption and radiative effects of water-soluble and methanol-soluble brown carbon under high residential wood burning emissions. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.

74. **D.G. Kaskaoutis**, G. Grivas, K. Oikonomou, P. Tavernaraki, K. Papoutsidaki, M. Tsagkaraki, I. Stavroulas, P. Zarmpas, D. Paraskevopoulou, A. Bougiatioti, E. Liakakou, M. Gavrouzou, U.C., N. Hatzianastassiou, J. Sciare, E. Gerasopoulos, N. Mihalopoulos, 2022. Impacts of severe residential wood burning on atmospheric processing, water-soluble organic aerosol and light absorption, in a medium-sized city of Southeastern Europe. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.

75. E. Liakakou, **D.G. Kaskaoutis**, I. Stavroulas, G. Grivas, A. Bougiatioti, N. Kalivitis, G. Kouvarakis, M. Tsagkaraki, M. Gavrouzou, N. Hatzianastasiou, K. Michailidis, D. Balis, E. Gerasopoulos, N. Mihalopoulos, 2022. Temporal and spatial variability of black carbon levels in different environments in Greece with emphasis on the role of residential biomass burning. *11th International Aerosol Conference (IAC2022), Athens, 4-9 September 2022*.

8. Member of Conference Organizing Committee – Scientific Organizations

1. Member of the organizing Committee at 8th Joint Conference of the Greek and Cyprus Physicist Unions. Special section: Teachability of the Physics Science, Kalamata, Greece, 17-19 January 2000.
2. Member of the Greek Physicist Union
3. Member of the European Geoscience Union (EGU)
4. Member of the Committee of Space Research (COSPAR)
5. Member of the organizing Committee at National Symposium on "Opportunities and Challenges in Condensed Matter and Materials Physics", Shiv Nadar University, India, 17-19 April 2014.

9. International Recognition - Awards

1. Convener in the section "Asian Aerosols and Climate: The Known and Unknown" with Dr S.K. Satheesh and Dr S. Suresh Babu in the Asia Oceania Geosciences Society (AOGS) conference. Hyderabad, India 5-9 July 2010.
2. Travelling fellowship (1200 E) from Committee of Space Research (COSPAR) for participation and presentation of 2 studies in the 38th COSPAR scientific Assembly, Bremen, Germany, 18-25 July 2010.
3. Certificate Award from the Journal of Atmospheric and Solar-Terrestrial Physics for the inclusion of the study titled "Comparison between experimental

data and modeling estimates of aerosol optical depth over Athens, Greece" as the most cited in the period 2005-2010.

4. Honorable mention of the Journal of Atmospheric and Solar-Terrestrial Physics for the inclusion of the study titled "Influence of atmospheric aerosols on solar spectral irradiance in an urban area" as one of the 50 mostly cited in the period 2005-2010.
5. Invited scientist at National Atmospheric Research Laboratory (NARL), Gadanki, India in the frameworks of the SAFAR campaign. Invitation from Dr. A. Jayaraman (Director NARL) [June 2010].
6. Invited lecture at NARL, Gadanki, India titled "Effects of atmospheric aerosols in our changing planet" in the frameworks of the SAFAR campaign. Invitation from Dr. A. Jayaraman (Director NARL) [June 2010].
7. Invited scientist at Sri Krishnadevaraya University of Anantapur, India. Invitation from Prof. R. Ramakrishna Reddy [June 2010].
8. Invited scientist at Tata Institute for Fundamental Research (TIFR), Hyderabad, India in the frameworks of the experimental campaigns W-ICARB, ARFI-RAWEX and CAIPEEX. Invitation from Prof. R. Manchanda [June – July 2010].
9. Invited scientist at Indian Institute of Tropical Meteorology (IITM), Pune, India in the frameworks of the experimental campaign CAIPEEX. Invitation from Dr. E. Raj [July 2010].
10. Invited lecture at IITM, Pune, India titled "Effects of atmospheric aerosols in our changing planet". Invitation from Dr. E. Raj [July 2010].
11. Invited scientist at Chapman University, Orange, CA, USA from Prof. Ramesh Singh [October, 2010].
12. Invited scientist and speaker at Jet Propulsion Laboratory, NASA, CA, USA from Dr. Wu Dong [October, 2010].
13. Invited speaker-trainer at Sharda University, India in the COSPAR "International training workshop on Remote Sensing of Atmospheric Aerosols and Their Impacts", 2-16 January 2011.
14. Invited lecture at National Physical Laboratory, N. Delhi, India titled "Techniques for identification of aerosol types and aerosol modification processes in the atmosphere". Invitation by Dr. Sachchidanand Singh [March 2011].
15. Invited lecture at Banaras Hindu University, Varanasi, India titled "What can sun photometry tell us about aerosol optical properties?" invitation by Dr. A. Singh [March 2011].
16. Invited scientist at symposium of UNEP-ABC (Atmospheric Brownish Clouds), Kathmandu, Nepal, 23-24 March 2011. Invitation from Dr. Mark Lawrence.
17. Invited lead guest editor for a special issue titled "**Desert Dust Properties, Modeling, and Monitoring**" in the international scientific journal Advances in Meteorology.
18. Invited speaker at symposium "Climate Change in India and Southeast Asia: How are Local Cultures Coping?" Invited lecture at 4th scientific section of the symposium titled "Regional Approaches to Solutions, Adjustments, and Vulnerabilities: a) Adjustment Strategies: Megacities in Times of Climate Change" Essen, Germany, 17-18 June 2011.
19. Member of the editorial board in the international scientific journal **Geosciences**http://www.sapub.org/journal/editorialboard.aspx?journalid=1016

20. Member of the editorial board in the international scientific journal **Journal of Earth, Environmental and Atmospheric Sciences** http://jeoas.uscip.us/EditorialBoard.aspx
21. Member of the editorial board in the international scientific journal **International Journal of Atmospheric and Oceanic sciences** http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=298
22. Member of the editorial board in the international scientific journal **MDPI-Remote Sensing** Section "**Atmosphere**" https://www.mdpi.com/journal/remotesensing/sectioneditors/Atmosphere_Remote_Sensing
23. Member of the editorial board in the international scientific journal **MDPI-Atmosphere** https://www.mdpi.com/journal/atmosphere/editors
24. Member of the editorial board in the international scientific journal **Advances in Environmental and Engineering Research** http://www.lidsen.com/journals/aeer/aeer-editorial-board
25. Member of the editorial board in the international scientific journal **The Global Environmental Engineers** http://www.avantipublishers.com/editorial-board-member-genvie/
26. Member of the editorial board in the international scientific journal **Atmospheric and Climate Sciences** https://www.scirp.org/journal/acs/
27. Editorial Board member at the International Scientific journal **The Open Atmospheric Science Journal** https://benthamopen.com/TOASCJ/editorial-board/
28. Member of the editorial board in the international scientific journal **MDPI-Radiation** https://www.mdpi.com/journal/radiation/editors.
29. Member of the editorial board in the international scientific journal **MDPI-Applied Sciences** https://www.mdpi.com/journal/applsci/sectioneditors/Agricultural_Engineering
30. Best Reviewer Award for 2012 from the International Scientific Journal Atmospheric Research.
31. Invited speaker at **International Conventions of Engineering & Management (iCEM 2014)** at Jaypee University of Information Technology, Waknaghat, Himachal Pradesh, India, 26-27 April 2014.
32. Certificate in Excellence in reviewing from the International scientific journal Global and Planetary Change.
33. Consideration of the paper titled "**Extremely high aerosol loading over Arabian Sea during June 2008: the specific role of the atmospheric dynamics and Sistan dust storms**" as one of the seven most interesting scientific papers published in the first half of 2014 that used the NASA Giovanni system.
34. Invited talk at LOA, Lille, France with title "Sistan basin: A unique region for dust emissions in SW Asia – LULC changes, air quality assessment, synoptic/dynamic meteorology", 17 March 2017.
35. Guest editor of the special issue "**Solar radiation, modelling and Remote Sensing**" in the journal "Remote Sensing" [http://www.mdpi.com/journal/remotesensing/special_issues/solar_RS]
36. Guest editor of the special issue "**Observing Atmospheric Dynamics and Dust Activity**" in the journal "**Geosciences**" [http://www.mdpi.com/journal/geosciences/special_issues/dust_activity]

37. Invited speaker at "**Land Use/Cover Changes, Environment and Emissions in South/Southeast Asia – An International Regional Science Meeting**" with invited talk titled "*Atmospheric aerosols and their driving factors/meteorology in south Asia: the case of dust storms*" Johor Bahru, Malaysia 22-24 July 2019.
38. Keynote speaker at the 6th IRIMO International – Regional Conference on Climate Change with invited talks "**Climate change, drought and effects on dust activity over Iran**" and "**Large and small scale atmospheric dynamics and dust storms over Sistan**" Tehran, Iran, 18-19 November 2019.
39. Member of the Program Committee of the **Global Conference on Geology, Environmental and Earth Sciences – GCGEES-2020**, Boston, USA, 18-19 Ιουνίου 2020; https://www.moraft.com/geology-environmental-and-earth-sciences-2020/program-committee.
40. Associate Editor at the journal **Frontiers Environmental Sciences** https://www.frontiersin.org/my-frontiers/overview.
41. Guest Editor of the special issue "**Impact of the COVID-19 Lockdown on the Atmosphere**" at journal **Frontiers Environmental Sciences**.
42. Editorial Board member at the journal **MDPI-Radiation** https://www.mdpi.com/journal/radiation/editors.
43. Guest editor of the special issue "New Challenges in Solar Radiation, Modeling and Remote Sensing" in the journal "Remote Sensing" https://www.mdpi.com/journal/remotesensing/special_issues/solar_radiation_RS

10. ***Reviewer in Scientific Journals – Research Proposals – Conferences – PhD Thesis – Books***

Reviewer of **508** articles submitted in **116** scientific journals as summarized in the following Table.

	Journal	Number of articles
1	Solar Energy	7
2	J. Atmos. Solar Terrestrial Physics	19
3	IEEE Geoscience and Remote Sensing Letters	5
4	Meteorology Atmospheric Physics	5
5	J. Earth Science System	10
6	Atmospheric Chemistry Physics	7
7	WSEAS Transactions on Environ. and Development	1
8	Atmospheric Environment	48
9	J. Geophysical Research	20
10	Remote Sensing of Environment	7
11	Advances in Space Research	4
12	Atmospheric Science Letters	7
13	IEEE J. Selected Topics in Earth Observations and Remote Sensing (JSTARS)	4
14	TellusB	2
15	Annales Geophysicae	5
16	Aerosol and Air Quality Research	15
17	Environmental Engineering Science	1

18	Atmospheric Research	46
19	Atmospheric Measurements Techniques	4
20	Aerosol Science and Technology	3
21	Applied Optics	2
22	Advances in Meteorology	8
23	Geophysical Research Letters	3
24	Quarterly J. Royal Meteorology Society	3
25	Journal Atmospheric Chemistry	1
26	Environmental Science & Pollution Research	15
27	Journal of Arid Land	1
28	Global Planetary Change	1
29	International Journal Physical Sciences	1
30	Arabian Journal of Geosciences	1
31	Science of the Total Environment	20
32	Journal of Aerosol Science	3
33	Dynamics of Atmospheres and Oceans	3
34	Environmental Modelling & Software	1
35	Environmental Engineering and Management Journal	1
36	ISRN Atmospheric Sciences	1
37	International Journal of Remote Sensing	6
38	Advances in Research	1
39	Air Quality, Atmosphere and Health	2
40	International Journal of Climatology	8
41	Climate Dynamics	1
42	Environmental Monitoring and Assessment	2
43	Nature Communications	3
44	Aeolian Research	6
45	Computers and Geosciences	1
46	Journal of Renewable and Sustainable Energy	2
47	MDPI-Remote Sensing	30
48	Chemistry and Ecology	1
49	Scientific Reports	1
50	Journal of Environment and waste management	1
51	International Journal of Environmental Science & Technology	3
52	Environmental Pollution	13
53	Water, Air and Soil Pollution	1
54	International Research Journal of Public and Environmental Health	1
55	International Journal of Agricultural Policy and Research	1
56	Atmospheric and Climate Sciences	2
57	Toxicological and Environmental Chemistry	1
58	Atmospheric Pollution Research	15
59	EOS	1
60	International Journal of Oceanography	1
61	Building Simulation	1
62	Journal Meteorological Research	1
63	Atmospheric Technology & Innovation	2

64	African Journal of Environmental Science and Technology	1
65	Journal of Cleaner Production	4
66	Journal of Environmental Management	3
67	Renewable & Sustainable Energy Reviews	2
68	Natural Hazards and Earth System Science	1
69	Theoretical and Applied Climatology	5
70	IEEE_Transactions on Geosciences and Remote Sensing	1
71	Frontiers in Energy	1
72	MDPI-Atmosphere	30
73	MDPI-Sustainability	8
74	Progress in Physical Geography	1
75	Climate Research	2
76	The Open Atmospheric Science Journal	2
77	ISPRS Journal of Photogrammetry and Remote Sensing	1
78	AIMS_Energy	1
79	Nature Geoscience	1
80	Acta Geophysica	1
81	AIMS Environmental Science	2
82	MDPI-Energies	1
83	SAP- Resources and Environment	1
84	Atmósfera	2
85	SN Applied Sciences (Springer)	2
86	MDPI-ISPRS International Journal of Geo-Information	1
87	Ecological Information	1
88	International Journal of Environmental Analytical Chemistry	1
89	Particuology	1
90	MDPI-Applied Sciences	4
91	The Global Environmental Engineers	2
92	International Journal Disaster Risk Reduction	2
93	International Journal of Environmental Science and Technology	1
94	City and Environment Interactions	1
95	Advances in Environmental and Engineering Research	2
96	Open Journal of Air Pollution	1
97	MDPI-Intern. J. Environmental Research & Public Health	3
98	Journal of Arid Environments	1
99	Journal of Marine Science and Engineering	1
100	Scientific Review Engineering and Environmental Sciences	1
101	Physical Geography	1
102	International Journal of Energy and Environmental Science	1
103	Environmental Pollutants and Bioavailability	1
104	MDPI-Toxics	2
105	Science Advances	1
106	MDPI-Sensors	1
107	Ecological Informatics	1
108	Environmental Research	2
109	Frontiers in Environmental Science	1
110	Urban Climate	1

111	Journal of Trace Elements and Minerals	1
112	Environmental Processes	1
113	Journal of Geography, Environment and Earth Science International	1
114	Godwana Research	1
115	Sensors	1
116	Natural Hazards	1

- International examiner of the PhD Thesis titled "**Remote sensing and GIS applications in Environmental monitoring of forest, agriculture and urban ecosystems over Indian region**" submitted by T.R. Kiran Chand in Andhra Pradesh University, Visakhapatnam, India. Invitation by Prof. S. Sarveswara Rao. (March 2007).
- International examiner of the PhD Thesis titled "**Remote sensing the south Asian winter haze at Visakhapatnam using a ground-based multi-wavelength solar radiometer**" submitted by B. Malleswara Rao in Andhra Pradesh University, Visakhapatnam, India. Invitation by Prof. D. Harinarayana. (December 2008).
- International examiner of the PhD Thesis titled "**Observed climatic changes in OLR, Cloud cover and rainfall across India: Linking hydroclimatic variation to largescale atmospheric circulations**" submitted by Narendra Singh in Indian Institute of Tropical Meteorology, Pune. Invitation by Dr. Natyanand Singh. (October 2012).
- International examiner of the scientific proposal titled "**Estimation of $PM_{2.5}$ concentrations using satellite data and spatio-temporal variations of chemicals associated with particulate matter**" submitted to the Kuwait Foundation of Advancement of Sciences (KFAS) by S. Uddin and B. Gevao.
- International examiner of the scientific proposal titled "**Probability and statistical analysis of total suspended atmospheric particulate matter in Kuwait**" submitted to the Kuwait Foundation of Advancement of Sciences (KFAS) by S. Neelamani and M. Al-Sadairawi.
- International examiner of the scientific proposal titled "**UV map of Chile**" submitted to Comisión Nacional de Investigación Científica y Tecnológica (CONICYT), Chile by Carrasco Cerda Jorge Fernando (November 2017).
- Reviewer of the Book Chapter titled "**Thar Desert: Source for Dust Storm**" submitted by Priyabrata Santra in Encyclopedia of Natural Hazards, Eds. Ramesh P. Singh.
- Reviewer of the Book titled "**An Introduction to Dynamic Meteorology – Fifth Edition**» by James R. Holton and Gregory J. Hakim after invitation from Elsevier.

- Reviewer of 2 articles submitted at 4th Conference "**Development of Information and Communication Technologies in teachability**" Siros, Greece 4-6 May 2007.

- Reviewer of 6 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2009)**, Cape Town, South Africa, 13-17 July 2009.
- Reviewer of 8 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2010)**, Honoloulou, Hawai, 25-30 July 2010.
- Reviewer of 9 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2011)**, Sendai, Japan, 1-5 August 2011.
- Reviewer of 1 article submitted at **7th IASME/WSEAS Int. Conf. on Energy, Environment, Ecosystems and Sustainable Development (EEESD'11)**, Angers, France, 17-19 November 2011
- Reviewer of 12 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2012)**, Munich, Germany, 22-27 July 2012.
- Reviewer of 9 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2014)**, Quebec, Canada, 13-18 July 2014.
- Reviewer of 9 articles submitted at **IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2016)**, Beijing, China, 10-15 July 2016.

11. Participation in National and International Scientific Projects

1. **PROTEPE:** (in Greek) Joint Research Program with Aristotle University of Thessaloniki [10/5/2003 – 10/5/2005].
2. **Forest Fires (FORFI):** Joint Research Program between Greece and Turkey [2002-2005] http://www.draxis.gr/forfi/
3. **RISCMASS:** (Mèthodologies pour la Gestion de Risques d'Eboulement et des mouvements du Sol avec Scénarios de Politique d' Assurance). Joint Research Program between Greece, Italy and Spain funded by INTERRGEG IIIB Medocc [1/4/2004 – 30/6/2006].
   http://event.interact-eu.net/download/application/pdf/947287
4. **Integrated Campaign for Aerosols, gases and Radiation Budget (ICARB):** Collaborative scientist in the cruise experimental campaign conducted in Bay of Bengal, Northern Indian Ocean and Arabian Sea in the pre-monsoon season (March-May 2006). *[Principal Investigator: Dr K. Krishnamoorthy]* http://www.ias.ac.in/jess/jul2008/jess83.pdf
5. **THERMOPOLIS:** Joint Research Program between Greece, Switzerland and Spain conducted over Athens during the period 14 July – 2 August 2009. http://www.esa.int/esaCP/SEMVNMH7KYF_index_0.html
6. **Integrated Campaign for Aerosols, gases and Radiation Budget –Winter (W-ICARB):** Collaborative scientist in the cruise experimental campaign conducted in Bay of Bengal in winter (December 2008 – January 2009). *[Principal Investigator: Dr K. Krishnamoorthy]*
7. **Aerosol Radiative Forcing over India (ARFI):** Collaborative scientist with the research team of National Remote Sensing Center (NRSC), Hyderabad under the supervision of Dr. K.V.S. Badarinath. The project was funded by the Indian Space Research Organization – Geosphere Biosphere Program (ISRO-GBP) 2007-2009. *[Principal Investigator Dr. K. Krishnamoorthy]* http://www.iypeinsa.org/updates-09/inst-11.pdf

8. **ARFI-RAWEX (Regional Aerosol Warming Experiment).** Collaborative scientist with the research team of TIFR, Hyderabad, 2010-2012. *[Principal Investigator Dr. K. Krishnamoorthy]* http://www.ias.ac.in/meetings/myrmeet/pjm1_talks/ssureshbabu/img33.html
9. **Measurements of aerosols and trace gases in the Greater Delhi Area.** Collaborative Project between Sharda University, Chapman University, CA, USA and NPL, Delhi.
10. **Ganges Valley Aerosol Experiment [June 2011 – March 2012]:** Collaborative scientist with ARIES, Nainital *[Principal investigator Dr. Rao Kothamarti]*.
11. **Investigating aerosol properties and their impact on radiative forcing in Malaysia using AERONET and satellite measurements. Grant (FRGS)** collaborative project between Universiti Teknologi Malaysia and other research centers. Period 01/12/2014 – 30/11/2017. *[Ref No: PY/2014/04150, Principal Investigator Dr. Kasturi Devi Kanniah]*
12. **KRIPIS-THESPIA:** EU-funded project. Researcher at the scientific task "Influence of atmospheric aerosol on solar spectral radiation", Institute for Environmental Research and Sustainable Development, National Observatory of Athens. Period May – October 2015. *[Principal Investigator: Prof. Nikos Mihalopoulos]*
13. **Le Sistan, source singulière d'aérosols désertiques: sous quelle influence dynamique locale et synoptique?** Researcher at the research collaboration project between LOA (Laboratoire d'Optique Atmosphérique) and LISA (Laboratoire Interuniversitaire des Systèmes Atmosphériques), 2016 – 2018, Funded by CNRS, France. *[Principal Investigator: F. Minvielle, Ref No: AO2016- 997442]*
14. **KRIPIS-THESPIA-II:** EU-funded project. Researcher at the scientific task "Construction of Typical Meteorological Years over Greece", Institute for Environmental Research and Sustainable Development, National Observatory of Athens. Period June – November 2018. *[Principal Investigator: Prof. Nikos Mihalopoulos]*
15. **Characterising the spatio-temporal variability of fine particulate matter (PM2.5) in greater Kuala Lumpur, Malaysia using remote sensing and advanced statistical techniques.** Collaborative scientist in the program of the Universiti Teknologi Malaysia. Period: 01/09/2019 – 31/08/2021. *[Ref No: R.J130000.7852.5F216, Principal Investigator: Dr. Kasturi Devi Kanniah]*
16. "PANhellenic infrastructure for Atmospheric Composition and climatE change" (**PANACEA:** MIS 5021516), which is implemented under the Action "Reinforcement of the Research and Innovation Infrastructure", funded by the Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund). *[Principal Investigator: Prof. Nikos Mihalopoulos]*.

12. Academic Teaching

1. [2000-2003] Time-worker at the Physics Department, University of Athens

A. Supervisor at Physics Laboratory. Main Objectives:

- Physics I – Mechanism
- Physics II – Thermodynamics and Molecular Physics

B. Teaching at Laboratory of Atmospheric Physics - Meteorology. Main objectives:

- Investigation of solar and terrestrial radiation
- Investigation of meteorological variables (air temperature, Humidity, wind)
- Thermodynamic Pattern, Atmospheric stability
- Surface and upper atmosphere winds
- Instruments and Methods for Environmental and Meteorological applications

2. [Jan-Oct 2011] Associate Professor at Sharda University and teaching at Master Degree Program **"Master Technology, Energy and Environmental Engineering"**. Main topics:

- Earth, Energy and Environment
- Principles of Ecology and Environmental Science
- Energy Resources, Economics and Environment
- Quantitative Techniques in Environmental Engineering

3. [Jan 2013 – Dec 2016] Assistant Professor at Shiv Nadar University and teaching at Under-Graduate Program. Main topics:

- Physics Laboratory [Mechanics, Electromagnetism, Optics]
- Co-Instructor, Establishment and Teaching the compulsory UG course "**Environmental Studies**"
- Main Instructor, Establishment and Teaching the course "**Atmospheric Aerosols and Climate**"
- Main Instructor, Establishment and Teaching the course "**Introduction in Meteorology**"

4. Co-supervisor of the PhD Thesis of Mrs Amalin N.F.K. Zaman at the "Universiti Teknologi" Malaysia with tentative title "PM_{10} monitoring from space over Malaysia"

5. Co-supervisor of the PhD Thesis of Mr Alireza Rashki at the Department of Geography, Geoinformatics and Meteorology, University of Pretoria, South Africa http://upetd.up.ac.za/thesis/available/etd-09042012-125044/.

6. Co-supervisor of the Msc Thesis of Mrs Amalin N.F.K. Zaman at the "Universiti Teknologi" Malaysia.

7. Co-supervision (external expert and consultor) of 7 under-graduate and 1 post-graduate degree thesis at the Department of Geology and Geoenvironment, University of Athens, during the period 2003-2010.

8. Oversight and training of 23 undergraduate students at National Observatory of Athens during the period 2003-2009 on issues related to Actinometric and Meteorological instruments and data analysis.

13. Other abilities

Excellent knowledge of the English language, computational skills in Windows 2010, XP, Vista, Word, Excel, PowerPoint, Access, statistical packets (Origin, Systat), graphical (Origin, SURFER). Use of solar radiation models (SMARTS2, SPCTRAL2, TUV, MRM), air mass back-trajectory analysis (HYSPLIT), dust transport models (DREAM), aerosol influence on climate (OPAC, SBDART).
Operation skills with the instruments Multi-Filter Rotating Shadow-band Radiometer (MFRSR), Passive Pyrheliometer Scanner (PPS), Ceilometer CL-31, Eppley Pyranometer, Pyrgeometer and Meteorological instruments at the Actinometric Station of the National Observatory of Athens. Operation of Microtops-II sun photometer, Aethalometer (AE-42, AE-33), DOAS, Quartz Crystal Microbalance, GRIMM, Nephelometer.