

***DIMITRIS G. KASKAOUTIS***

*Physicist,  
Doctor of Philosophy, University of Ioannina, Greece*

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Institute for Environmental Research and Sustainable Development,  
National Observatory of Athens*

**CURRICULUM VITAE**

*February 2019*

## **1. Personality**

Name: Dimitris G. Kaskaoutis  
Date of Birth: 22 May 1977  
Place of Birth: Arta, Greece  
Marital status: Married, one child  
Work Address: National Observatory of Athens, Institute for Environmental Research and Sustainable Development, Thissio, 11810, Athens, Greece  
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## **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”

## **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: 12]**
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: 14]**
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: 23]**
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: 30]**
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: 75]**
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: 34]**
8. Ulas Im, Turgut Onay, Orhan Yeniguin, Umit Antepioglu, 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: 1]
9. H.D. Kambezidis, **D.G. Kaskaoutis**, P. Kassomenos, D. Melas, A. Papadopoulos, O. Yenigun, 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: 3.169, 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: 32]
  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: 4]
  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: 16]
  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: 92]
  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: 51]
  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: 42]
  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: 85]
  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: 1]
  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: 1.782, citations: 18]
  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: 20]
  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: 35]

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: 47]
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: 43]
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: 24]
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: 12]
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: 76]
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: 4]
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: 7]
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: 18]
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: 3.450, citations: 53]
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: 3.450, citations: 85]
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: 36]
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: 81]

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: 16]
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: 1.782, citations: 6]
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: 8]
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: 5].
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: 3.450, citations: 24]
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: 24]
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: 24]
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: 45]
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: 5]
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: 36]
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: 14]
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: 53]
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: 7]
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: 1.713, citations: 12]
  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: 23]
  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: 4.400, citations: 49]
  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: 19]
  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: 3.450, citations: 21]
  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: 3.100, citations: 7]
  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: 20]
  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: 26]
  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: 14]
  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: 48]
  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: 19]

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: 3.450, citations: 18]
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: 35]
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: 32]
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: 5]
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: 14]
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: 2.589, citations: 30]
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: 14]
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: 19]
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: 3.450, citations: 50]
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: 19]
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: 9]
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: 9]

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: 30]
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: 19]
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: 25]
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: 12]
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: 7]
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: 19]
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: 41]
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: 9]
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  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 upscaling urban air pollution in Malaysia. *IOP 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.*

## 7.2 Presentations without conference volumes

1. H.D. Kambezidis, **D.G. Kaskaoutis**, P. Kassomenos, 2005. Confrontation of forest fires in Greece. *13<sup>th</sup> 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. Antepioglu, 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. *3<sup>rd</sup> 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. *15<sup>th</sup> National Space Science 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. *15<sup>th</sup> 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. *15<sup>th</sup> 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. *6<sup>th</sup> 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. *39<sup>th</sup> 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. *39<sup>th</sup> 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 Workshop, 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. *10<sup>th</sup> 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. *8<sup>th</sup> 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. *3<sup>rd</sup> 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. *3<sup>rd</sup> 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. *3<sup>rd</sup> 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. *15<sup>th</sup> 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 upscaling 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*.

## **8. Member of Conference Organizing Committee – Scientific Organizations**

1. Member of the organizing Committee at 8<sup>th</sup> 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**

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 38<sup>th</sup> 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 *ISRN Atmospheric Sciences* <http://www.isrn.com/journals/as/editors/>.
21. Member of the editorial board in the international scientific journal *International Journal of Atmospheric Sciences* <http://www.hindawi.com/journals/ijas/editors/>
22. Member of the editorial board in the international scientific journal *Journal of Earth, Environmental and Atmospheric Sciences* <http://jeoas.uscip.us/EditorialBoard.aspx>
23. 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>
24. Best Reviewer Award for 2012 from the International Scientific Journal *Atmospheric Research*.
25. Invited speaker at **International Conventions of Engineering & Management (iCEM 2014)** at Jaypee University of Information Technology, Wanknaghat, Himachal Pradesh, India, 26-27 April 2014.
26. Certificate in Excellence in reviewing from the International scientific journal *Global and Planetary Change*.

27. 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.
28. 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.
29. 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](http://www.mdpi.com/journal/remotesensing/special_issues/solar_RS)]
30. Editorial Board member at the International Scientific journal **The Open Atmospheric Science Journal**  
<https://benthamopen.com/TOASCJ/editorial-board/>
31. 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](http://www.mdpi.com/journal/geosciences/special_issues/dust_activity)]

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

Reviewer of 252 articles submitted in 74 scientific journals as summarized in the following Table.

	<b>Journal</b>	<b>Number of articles</b>
1	Solar Energy	7
2	J. Atmos. Solar Terrestrial Physics	17
3	IEEE Geoscience and Remote Sensing Letters	5
4	Meteorology Atmospheric Physics	2
5	J. Earth Science System	8
6	Atmospheric Chemistry Physics	2
7	WSEAS Transactions on Environ. and Development	1
8	Atmospheric Environment	25
9	J. Geophysical Research	16
10	Remote Sensing of Environment	7
11	Advances in Space Research	2
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	8
17	Environmental Engineering Science	1
18	Atmospheric Research	30
19	Atmospheric Measurements Techniques	3
20	Aerosol Science and Technology	3
21	Applied Optics	2
22	Advances in Meteorology	8
23	Geophysical Research Letters	1

24	Quarterly J. Royal Meteorology Society	2
25	Journal Atmospheric Chemistry	1
26	Environmental Science & Pollution Research	9
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	4
32	Journal of Aerosol Science	3
33	Dynamics of Atmospheres and Oceans	1
34	Environmental Modelling & Software	1
35	Environmental Engineering and Management Journal	1
36	ISRN Atmospheric Sciences	1
37	International Journal of Remote Sensing	3
38	Advances in Research	1
39	Air Quality, Atmosphere and Health	1
40	International Journal of Climatology	3
41	Climate Dynamics	1
42	Environmental Monitoring and Assessment	1
43	Nature Communications	1
44	Aeolian Research	5
45	Computers and Geosciences	1
46	Journal of Renewable and Sustainable Energy	2
47	Remote Sensing	2
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	3
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	6
59	EOS	1
60	International Journal of Oceanography	1
61	Building Simulation	1
62	Journal Meteorological Research	1
63	Atmospheric Technology & Innovation	1
64	African Journal of Environmental Science and Technology	1
65	Journal of Cleaner Production	1
66	Journal of Environmental Management	1
67	Renewable & Sustainable Energy Reviews	1

68	Natural Hazards and Earth System Science	1
69	Theoretical and Applied Climatology	2
70	IEEE_Transactions on Geosciences and Remote Sensing	1
71	Frontiers in Energy	1
72	Atmosphere	1
73	Sustainability	1
74	Progress in Physical Geography	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<sub>2.5</sub> 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)**, Honolulu, Hawaii, 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 **7<sup>th</sup> 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:** (Méthodologies 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/SEMVMNH7KYF\\_index\\_0.html](http://www.esa.int/esaCP/SEMVMNH7KYF_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/ssureshababu/img33.html](http://www.ias.ac.in/meetings/myrmeet/pjm1_talks/ssureshababu/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*]

## **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<sub>10</sub> 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 consultant) 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.