

CURRICULUM VITAE

NAME: **ANDREAS KAZANTZIDIS**

BIRTH DATA: 16/07/1971 in Thermi, Greece

FAMILY DATA: Married with two children

PRESENT POSITION: Associate Professor, Laboratory of Atmospheric Physics, Physics Department, University of Patras, Greece
Head, Laboratory of Atmospheric Physics, Physics Department, University of Patras, Greece
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UNDERGRADUATE AND GRADUATE STUDIES

1. BA in Physics, University of Thessaloniki, Greece, 1994.
2. Master Degree in Environmental and Atmospheric Physics, Aristotle University of Thessaloniki, Greece, 1996.
3. Ph.D. in Atmospheric Physics, University of Thessaloniki, Greece, 1999-2004

WORKING EXPERIENCE

1. Associate Professor, University of Patras (2015-...)
2. Assistant Professor, University of Patras (2009-2015)
3. Research scientist in the Laboratory of Atmospheric Physics, Physics Department, Aristotle University of Thessaloniki (1994-2009)
4. Meteorologist (as an weather observer) at the Hellenic National Meteorological Service (1996-1998)

TEACHING

Undergraduate program - Physics Dept. – University of Patras

Introduction in Environmental Physics (2009...)

Atmospheric Pollution (2009...)

Lab IV (2009...)

Lab III (2013...)

Undergraduate program - Physics Dept. – University of Patras

Radiative transfer in the Atmosphere (2009...)

Simulations in Atmospheric Physics (2010...)

Geophysical – Atmospheric Signals and Remote Sensing (2011...)

Environmental Physics (2013...)

Undergraduate program - Physics Dept. – Aristotle University of Thessaloniki

Solar Radiation Modelling (2009-2013)

Atmospheric Physics Lab (2005-2008)

Current Issues in Environmental Research (2006-2008)

MEMBERSHIP WITH SCIENTIFIC SOCIETY

1. Member, Union of Greek Physicists
2. Member, Master degree Environmental Physics union

3. Member, American Geophysical Union
4. Member, European Geophysical Union
5. Member, European Society for Photobiology
6. Working Expert in COST726 action, Long term changes and climatology of UV radiation over Europe", 2004-2009.
7. Management Committee (MC) member of the COST ES1002 Action, Weather Intelligence for Renewable Energy, 2010-2014.
8. Management Committee (MC) substitute member of the COST ES1207 Action, A European Brewer Network, 2013-2017.
9. Regular Member of the "BIOMET" Network - Fate and Transport of Biocolloids in Environmental Systems, University of Patras
10. Regular Member of the "OBSEARTH" Network – Earth Observation Network for Environmental Planning, Sustainable Development and Crisis Management, University of Patras
11. Member, Hellenic Association for Aerosol Research

MEMBERSHIP OF EDITORIAL BOARDS AND SCIENTIFIC COMMITTEES

12th International Conference in Meteorology, Climatology, Atmospheric Physics (COMECAP2014), *Member of the Scientific Committee*

13th International Conference in Meteorology, Climatology, Atmospheric Physics (COMECAP2016), *Member of the Scientific Committee*

2nd International Conference on New Energy and Future Energy System, (NEFES 2017), *Member of the Scientific Committee*

ORGANIZATION OF CONFERENCES

10th International Conference in Meteorology, Climatology, Atmospheric Physics (COMECAP2010), *Member of the Organizing Committee*

COST ES 1002 workshop on "Processing techniques for the detection of atmospheric constituents and the estimation and forecasting of solar irradiance from all-sky images", *Member of the Organizing Committee, Local Organizer, 24-25/06/2015.*

AWARD

Commendation to the paper entitled "Comparison of satellite-derived UV irradiances with ground-based measurements at four European stations" in JGR, Mariolopoulos-Kanaginis Foundation for the Environmental Sciences, 2008

INVITED SPEAKER IN SEMINARS AND CONFERENCES

1. The role of aerosols in solar energy forecasting and the perspective of whole sky imaging for aerosol/cloud determination, Summer School "From Renewable Energy Production to End Users", July 1st – 5th 2013, Training Center "Le Bataillet", Montegut, France, organized by COST Action ES1002 "Weather Intelligence in Renewable Energies in collaboration with the 2nd International Conference on Energy Meteorology (ICEM 2013)
2. Estimating Solar Radiation via Sky Imager, Workshop on "Weather Intelligence for Renewable Urban Areas", 2nd – 3rd June 2014, Risø Campus, Technical University of Denmark, Roskilde, Denmark, organized by COST Action ES1002 "Weather Intelligence in Renewable Energies in collaboration with the FP7 Smart Cities project CITIES (Centre for IT-intelligent Energy Systems in Cities)
3. Determination of aerosols and clouds from all-sky images for the estimation and forecasting of solar irradiance, VII Atmospheric Sciences Symposium, April 28-30th 2015, Istanbul, Turkey
4. Solar energy resource and forecasting, Conference on "Green Procurement and Smart City Support in the Energy Sector (GRASP)", May 28-29th 2015, Patras, Greece

PARTICIPATION IN RESEARCH PROJECTS

1. Greek Ministry of National Education and Religious Affairs, "Novel techniques for measuring atmospheric gases with Brewer spectroradiometers", 1995-1996, *Research Scientist*.
2. Greek Secretariat for Research and Technology, "Solar ultraviolet measurements for scientific purposes", 1995-1996, *Research Scientist*.
3. EC Environment, "Standardization ultraviolet data management (SUVDAMA)", 1995-1996, *Research Scientist*.
4. EC Environment, "Photochemical Activity and solar Ultraviolet Radiation (PAUR)", 1995-1997, *Research Scientist*.
5. EC Environment, "Development of Biological Dosimetry Systems for Monitoring the Impact of Solar UVB radiation on the Biosphere and on Human Health (BIODOS)", 1996-1997, *Research Scientist*.
6. EC Environment, "Standardization of Ultraviolet Spectroradiometry in Preparation of a European Network (SUSPEN)", 1996-1999, *Research Scientist*.
7. COST 713, "UVB Forecasting", 1996-2001, *Research Scientist*.
8. EC Environment and Climate, "Photochemical Activity and Ultraviolet Radiation Modulation Factors (PAUR II)", 1997-2000, *Research Scientist*.
9. EC Energy, Environment and Sustainable Development, "Actinic Flux Determination from Measurements of Irradiance (ADMIRA)", 2000-2002, *Research Scientist*.
10. EC Environment, "A European Aerosol Research Lidar Network to Establish an Aerosol Climatology: EARLINET", 2000-2002, *Research Scientist*.

11. EC Energy, Environment and Sustainable Development, "Influence of clouds on the spectral actinic flux in the lower troposphere (INSPECTRO)", 2002-2005, *Research Scientist*.
12. EC Energy, Environment and Sustainable Development, "European Database for UV Climatology and Evaluation (EDUCE)," 2002-2003, *Research Scientist*.
13. COST 726, "Long term changes and climatology of UV radiation over Europe", 2004-2009, *Working Expert*.
14. Greek Secretariat for Research and Technology, "The Greek UV monitoring network", 2003-2006, *Senior Research Scientist*.
15. EC Environment, "Stratosphere-Climate Links With Emphasis On The UTLS (SCOUT-O3)", 2005-2009, *Senior Research Scientist*.
16. EC Environment, "Quality Assurance of Spectral Ultraviolet Measurements in Europe Through the Development of a Transportable Unit: QASUME", 2003-2006, *Research Scientist*.
17. Greek Ministry of National Education and Religious Affairs, "Environmental effects from transportation of aerosols", 2005-2008, *Research Scientist*.
18. Greek Ministry of National Education and Religious Affairs, "Estimation of the radiative forcing efficiency over the Southeastern Mediterranean basin", 2005-2008, *Senior Research Scientist*.
19. EC Sixth Framework Program, "European Aerosol Research Lidar Network - Advanced Sustainable Observation System, EARLINET-ASOS", 2006-2008, *Research Scientist*.
20. Greek Secretariat for Research and Technology, Scientific and Technological Cooperation between RTD Organizations in Greece and RTD Organizations in USA, Canada, Australia, New Zealand, Japan, South Korea, Taiwan, Malaysia and Singapore, "Validation of solar ultraviolet estimations and ozone from the Ozone Monitoring Instrument with ground-based measurements under different aerosol conditions", in cooperation with NASA, 2006-2008, *Research Scientist*.
21. ESA, "Comparison between nitrogen dioxide columnar amounts measured from the ground and space (NO₂VAL)", 2007-2009, *Research Scientist*.
22. G.S.R.T., "National Research Network for the European Research Infrastructure COPAL", 2010, *Principal Investigator*.
23. G.S.R.T., "National Network for Solar Energy", 2010 *Principal Investigator*.
24. COST ES1002 Action, Weather Intelligence for Renewable Energy, 2010-2014, *MC Member*.
25. EC Seventh Framework Program, ENORASIS, 2012-2014, *Principal Investigator*.
26. Modelling approach to determine the duration and intensity of sunlight exposure required to maintain and achieve adequate vitamin D status in winter in 'at risk' population groups, Subcontractor, University of Manchester, funded by Department of Health, UK (12/2012 – 5/2014), *Principal Investigator*.

27. Direct Normal Irradiance Nowcasting methods for optimized operation of concentrating solar technologies, FP7-Energy project DNICast, Grant Agreement 608623, 10/2013 – 9/2017, *Principal Investigator*.
28. Food-based solutions for optimal vitamin D nutrition and health through the life cycle (ODIN), FP7-Health Project, Grant Agreement 613977, 7/2014 – 9/2014, *Research Scientist*.
29. Intelligent Methods for solar resource and forecasting with the use of high spatial and temporal resolution datasets, Greek State Scholarship Foundation, 1/6/2016 – 31/8/2017.
30. MENA Hybrid Solar System (HYMENSO), ERANETMED Renewable Energies, 1/11/2016 – 31/10/2018, *Principal Investigator*.

PARTICIPATION IN EXPERIMENTAL CAMPAIGNS

1. 4th International Intercomparison of Brewer UV spectroradiometers, May 1995, Chalkidiki, Greece
2. Campaign for the calibration of total ozone and solar UV spectral measurements by the Langley method, 12-22 July 1995, Izana, Tenerife.
3. Campaign of the PAUR project, Ag. Efstratios, Greece, 6-20 June 1996.
4. The Nordic Intercomparison of Ultraviolet and Total Ozone Instruments, 8 October - 22 November 1996, Izana, Tenerife.
5. Fourth European Intercomparison of Ultraviolet Spectroradiometers, 1-13 July 1997, Nea Michaniona, Greece.
6. Biodos Campaigns of biological dosimeters, 1-15 August 1996, Hungary and 15-22 July 1997, Nea Michaniona, Greece.
7. Campaign of the ADMIRA project, N. Michaniona, Greece, 1-15 August 2000
8. Inspectro Campaign, East Anglia UK August 28- September 28 2002.
9. International experiment of solar irradiance measurements during the total solar eclipse of 29 March 2006, Greece.
10. SCOUT-O3 ultraviolet radiation and aerosols campaign, 12-16 July 2006, Thessaloniki, Greece.
11. Measurements of solar irradiance, total ozone and aerosols for the validation of OMI instrument , in cooperation with NASA, September-October 2007, Thessaloniki, Greece.

MONOGRAPHS

- A. Kazantzidis: "Aerosol optical depth retrieval with the use of ultraviolet spectral measurements" **Master degree thesis**, University of Thessaloniki, Physics Department, (1996).

A. Kazantzidis: "Theoretical simulations of solar ultraviolet radiation and comparison with ground-based measurements" **PhD thesis**, University of Thessaloniki, Physics Department, (2004).

BOOK CHAPTERS

A. Kazantzidis, P. Tzoumanikas, P. Blanc, P. Massip, S. Wilbert, L. Ramirez-Santigosa, *Chapter 5: Short-term forecasting based on all-sky cameras*, in "**Renewable Energy forecasting: From models to applications**", edited by G. Kariniotakis, Woodhead Publishing Series, ISBN: 978-0-08-100505-0, 2017.

PEER REVIEWED PAPERS

1. *Public Comparison of measured and modelled UV indices*, **Met. Appl.**, De Backer, H., P. Koepke, A. Bais, X. de Cabo, T. Frei, D. Gillotay, C. Haite, A. Heikkilä, A. Kazantzidis, T. Koskela, E. Kyrö, B. Lapeta, J. Lorente, K. Masson, B. Mayer, H. Plets, A. Redondas, A. Renaud, G. Schauburger, A. Schmalwieser, H. Schwander and K. Vanicek.
2. *Comparison of model calculations with spectral UV measurements during the SUSPEN campaign: the effect of aerosols*, Kazantzidis, A., D. S. Balis, A. F. Bais, S. Kazadzis, E. Galani, E. Kosmidis and M. Blumthaler, **J. Atmos. Sc.**, 1529-1539, 2001.
3. *Actinic Flux Determination from Measurements of Irradiance (ADMIRA): Experimental Results*, A.R. Webb, A.F. Bais, M. Blumthaler, G-P. Gobbi, A. Kylling, R. Schmitt, S. Thiel, F. Barnaba, T. Danielsen, W. Junkermann, A. Kazantzidis, P. Kelly, R. Kift, G.L. Liberti, M. Misslbeck, B. Schallhart, J. Schreder, and C. Topaloglou, **Journal of Atmospheric and Oceanic Technology**, vol. 19, 1049-1062, July 2002
4. *Actinic flux determination from measurements of irradiance*, A. Kylling, A. R. Webb, A. F. Bais, M. Blumthaler, R. Schmitt, S. Thiel, A. Kazantzidis, R. Kift, M. Misslbeck, B. Schallhart, J. Shreder, C. Topaloglou, S. Kazadzis and J. Rimmer, **Journal of Geophysical Research**, vol. 108, No D16, 4506, 2003
5. *Raman lidar and sunphotometric measurements of aerosol optical properties over Thessaloniki, Greece during biomass burning episode*, D.S. Balis, V. Amiridis, C. Zerefos, E. Gerasopoulos, M. Andreae, P. Zanis, A. Kazantzidis, S. Kazadzis and A. Papayannis, *Atmospheric Environment*, vol. 37, 4529-4538, 2003
6. *Study of the effect of different type of aerosols on UV-B radiation from measurements during EARLINET*, D. S. Balis, V. Amiridis, C. Zerefos, A. Kazantzidis, S. Kazadzis, A. F. Bais, C. Meleti, A. Papayannis, V. Matthias, and H. Dier, **Atmospheric Chemistry and Physics**, 4, 307-321, 2004
7. *Actinic flux and O^1 photolysis frequencies retrieved from spectral measurements of irradiance at Thessaloniki, Greece* S. Kazadzis, C. Topaloglou, A.F. Bais, M. Blumthaler, D. Balis, A. Kazantzidis, B. Schallhart, **Atmospheric Chemistry and Physics**, Vol. 4, pp 2215-2226, 18-11-2004

8. *Deriving an effective aerosol single scattering albedo from spectral surface UV irradiance measurements*, A.F. Bais, [A. Kazantzidis](#), S. Kazadzis, D. Balis, C. S. Zerefos, C. Meleti, **Atmospheric Environment**, vol. 39, 1093-1102, 2005
9. *Sensitivity of solar UV radiation to ozone and temperature profiles at Thessaloniki (40.5 °N, 23 °E), Greece*, [A. Kazantzidis](#), A.F. Bais, D.S. Balis, E. Kosmidis and C.S. Zerefos, **Journal of Atmospheric and Solar-Terrestrial Physics**, vol. 67, 1321–1330, 2005
10. *Comparison of satellite-derived UV irradiances with ground-based measurements at four European stations*, [A. Kazantzidis](#), A. F. Bais, J. Grobner, J. R. Herman, S. Kazadzis, N. Krotkov, E. Kyro, P. N. den Outer, K. Garane, P. Gorts, K. Lakkala, C. Meleti, H. Slaper, R. B. Tax, T. Turunen and C. S. Zerefos, **Journal of Geophysical Research**, 111, D13207, doi:10.1029/2005JD006672, 2006.
11. *Monitoring of UV spectral irradiance at Thessaloniki (1990–2005): data re-evaluation and quality control*, K. Garane, A. F. Bais, S. Kazadzis, [A. Kazantzidis](#) and C. Meleti, **Annales Geophysicae**, 24, 1–14, 2006
12. *Atmospheric effects of volcanic eruptions as seen by famous artists and depicted in their paintings*, Zerefos C.S., V. T. Gerogiannis, D. Balis, S. C. Zerefos, and [A. Kazantzidis](#), **Atmospheric Chemistry and Physics**, 7, 4027-4042, 2007.
13. *Effects of total solar eclipse of 29 March 2006 on surface radiation*, Kazadzis S., A. Bais, M. Blumthaler, A. Webb, N. Kouremeti, R. Kift, B. Schallhart and [A. Kazantzidis](#), **Atmospheric Chemistry and Physics**, 7, 4027-4042, 2007.
14. *Attenuation of global ultraviolet and visible irradiance over Greece during the total solar eclipse of 29 March 2006*, [Kazantzidis A.](#), A. F. Bais, C. Emde, S. Kazadzis, and C. S. Zerefos, **Atmospheric Chemistry and Physics**, 7, 5959-5969, 2007.
15. *Long-term solar UV radiation reconstructed by ANN modelling with emphasis on spatial characteristics of input data*, U. Feister, J. Junk, M. Woldt, A. Bais, A. Helbig, M. Janouch, W. Josefsson, [A. Kazantzidis](#), A. Lindfors, P. N. den Outer, and H. Slaper, **Atmospheric Chemistry and Physics**, 8, 3107-3118, 2008.
16. *Clear sky UV simulations in the 21st century based on ozone and temperature projections from Chemistry-Climate Models*, K. Tourpali, A. F. Bais, [A. Kazantzidis](#), C. S. Zerefos, H. Akiyoshi, J. Austin, C. Bruhl, N. Butchart, M. P. Chipperfield, M. Dameris, M. Deushi, V. Eyring, M. A. Giorgetta, D. E. Kinnison, E. Mancini, D. R. Marsh, T. Nagashima, G. Pitari, D. A. Plummer, E. Rozanov, K. Shibata, and W. Tian, **Atmospheric Chemistry and Physics**, 9, 1165-1172, 2009.
17. *Calculations of the human vitamin D exposure from UV spectral measurements at three European stations*, [A. Kazantzidis](#), A. F. Bais, M.M. Zempila, S. Kazadzis, P.N. den Outer, T. Koskela and H. Slaper, **Photochem. Photobiol. Sci.**, 8, 45–51, 2009.
18. *Evaluation of ozone column measurements over Greece with NILU-UV multi-channel radiometers*, [A. Kazantzidis](#), A. F. Bais, M.M. Zempila, C. Meleti, K. Eleftheratos, C.S. Zerefos, **International Journal of Remote Sensing**, 30, 4273-4281, 2009.

19. Aerosol forcing efficiency in the UVA region from spectral solar irradiance measurements at an urban environment, S. Kazadzis, N. Kouremeti, A.F. Bais, A. Kazantzidis, C. Meleti, **Annales Geophysicae**, 27, **2515-2522**, 2009
20. Spatial and temporal UV irradiance and aerosol variability within the area of an OMI satellite pixel, S. Kazadzis, A.F. Bais, D. Balis, N. Kouremeti, M.M. Zempila, A. Arola, E. Giannakaki, V. Amiridis, A. Kazantzidis, **Atmospheric Chemistry and Physics**, 9, 4593-4601, 2009.
21. Variability of cloud-free ultraviolet dose rates on global scale due to modeled scenarios of future ozone recovery, A. Kazantzidis, K. Tourpali, A. F. Bais, **Photochemistry and Photobiology**, 86(1), 117-122, 2010.
22. Reconstructing of erythemal radiation levels in Europe for the last 4 decades, den Outer, P. N., Slaper, H., Kaurola, J., Lindfors, A., Kazantzidis, A., Bais, A. F., Feister, U., Junk, J., Janouch, M., Josefsson, W., **Journal of Geophysical Research**, 115, D10102, 2010
23. Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects, A. F. Bais, K. Tourpali, A. Kazantzidis, H. Akiyoshi, S. Bekki, P. Braesicke, M. P. Chipperfield, M. Dameris, V. Eyring, H. Garny, D. Iachetti, P. Jöckel, A. Kubin, U. Langematz, E. Mancini, M. Michou, O. Morgenstern, T. Nakamura, P. A. Newman, G. Pitari, D. A. Plummer, E. Rozanov, T. G. Shepherd, K. Shibata, W. Tian, and Y. Yamashita, **Atmospheric Chemistry and Physics**, 11, 7533-7545, 2011.
24. Effects of cirrus cloudiness on solar irradiance in four spectral bands, A. Kazantzidis, K. Eleftheratos, C.S. Zerefos, **Atmospheric Research**, 102, 452-459, 2011.
25. Cloud detection and classification with the use of whole-sky ground-based images, A. Kazantzidis, P. Tzoumanikas, A.F. Bais. S. Fotopoulos, G. Economou, **Atmospheric Research**, 113, 80-88, 2012.
26. Skin cancer risks avoided by the Montreal Protocol-worldwide modeling integrating coupled climate-chemistry models with a risk model for UV, A. van Dijk, H. Slaper. P.N. den Outer, O. Morgenstern, P. Braesicke, J.A. Pyle, H. Garny, A. Stenke, M. Dameris, A. Kazantzidis, K. Tourpali, A.F. Bais, **Photochemistry and Photobiology**, in press, doi: 10.1111/j.1751-1097.2012.01223.x, 2012.
27. On the differences of ultraviolet and visible irradiance calculations in the Mediterranean basin due to model- and satellite-derived climatologies of aerosol optical properties, E. Nikitidou and A. Kazantzidis, **International Journal of Climatology**, doi:10.1002/joc.3638, 2012.
28. The aerosol forcing efficiency in the UV region and the estimation of single scattering albedo at a typical West European site, E. Nikitidou, A. Kazantzidis, V. De Bock, H. De Backer, **Atmospheric Environment**, 69, 313-320, doi:10.1016/j.atmosenv.2012.12.035, 2013.
29. Determination of measuring sites of solar irradiance, based on cluster analysis of satellite-derived cloud estimations, A. Zagouras, A. Kazantzidis, E. Nikitidou, A.A. Argiriou, **Solar Energy**, 97, 1-11, 2013

30. Further evidence of important environmental information content in red-to-green ratios as depicted in paintings by great masters, C.S. Zerefos, P. Tetsis, A. Kazantzidis, V. Amiridis, S.C. Zerefos, J. Luterbacher, K. Eleftheratos, E. Gerasopoulos, S. Kazadzis, A. Papayannis, **Atmospheric Chemistry and Physics**, 14, 2987-3-15, 2014.
31. The aerosol effect on direct normal irradiance in Europe under clear skies, E. Nikitidou, A. Kazantzidis, V. Salamalikis, **Renewable Energy**, 68, 475-484, 2014.
32. Estimation of direct normal irradiance from measured global and corrected diffuse horizontal irradiance, M.C. Kotti, A.A. Argiriou, A. Kazantzidis, **Energy**, 70, 382-392, 2014.
33. Accuracy of ground surface broadband shortwave radiation monitoring, L. Vuilleumier, M. Hauser, C. Félix, F. Vignola, P. Blanc, A. Kazantzidis, B. Calpini, **Journal of Geophysical Research**, 10.1002/2014JD022335, 2014.
34. Cloud observations in Switzerland using hemispherical sky cameras, S. Wacker, J. Groebner, C. Zysset, L. Diener, P. Tzoumanikas, A. Kazantzidis, L. Vuilleumier, R. Stockli, S. Nyeki, N. Kampfer, **Journal of Geophysical Research**, 120(2), 695-707, 10.1002/2014JD022643, 2015
35. A modelling approach to determine how much UV radiation is available across UK and Ireland for health risk and benefit studies, A. Kazantzidis, A. Smedley, R. Kift, J. Rimmer, J.L. Berry, L.E. Rhodes, A.R. Webb, **Photochem. Photobiol. Sci.**, 14, 1073-1081, 2015.
36. An Integrated Predictive Model of Population Serum 25-Hydroxyvitamin D for Application in Strategy Development for Vitamin D Deficiency Prevention, K. D. Cashman, A. Kazantzidis, A.R. Webb, and M. Kiely, **The Journal of Nutrition**, doi: 10.3945/jn.115.217968, 2015.
37. Retrieval of surface solar irradiance, based on satellite-derived cloud information, in Greece, E. Nikitidou, A. Kazantzidis, P.Tzoumanikas, V. Salamalikis, A.F. Bais, **Energy**, 90, 776-783, 2015
38. High resolution WRF ensemble forecasting for irrigation: multi-variable evaluation, I. Kioutsioukis, A. de Meij, H. Jakobs, E. Katragkou, J.F. Vinuesa, A. Kazantzidis, **Atmospheric Research**, 167, 156-174, 2016.
39. Evaluation of WRF shortwave radiation parameterizations in predicting Global Horizontal Irradiance in Greece, M.M. Zempila, T.M. Giannaros, A.F. Bais, D. Melas. A. Kazantzidis, **Renewable Energy**, 86, 831-840, 2016.
40. Lightning activities and aerosols in the Mediterranean region, E. Proestakis, S. Kazadzis, K. Lagouvardos, V. Kotroni, A. Kazantzidis, **Atmospheric Research**, 170, 66-75, 2016.
41. *The effect of clouds on surface solar irradiance, based on data from an all-sky imaging system*, P. Tzoumanikas, E. Nikitidou, A.F. Bais, A. Kazantzidis, **Renewable Energy**, 95, 314-322, 2016.

42. *Aerosol and lightning activity: the effect of vertical profile and aerosol type*, E. Proestakis, S. Kazadzis, K. Lagouvardos, V. Kotroni, V. Amiridis, E. Marinou, C. Price, A. Kazantzidis, **Atmospheric Research**, 182, 243-255, 2016.
43. *Seasonal Changes in Vitamin D-Effective UVB availability in Europe and associations with population serum 25-hydrovitamin D*, CM O'Neill, A. Kazantzidis, MJ Ryan, N. Barber, CT Sempos, RA Durazo-Arvizu, R. Jorde, G. Grimmes, G. Eiriksdottir, V. Gudnason, MF Cotch, M. Kiely, AR Webb, KD Kashman, **Nutrients**, 8, 533, 2016.
44. *A predictive model of serum 25-hydroxyvitamin D in UK white as well as black and Asian minority ethnic population groups for application in food fortification strategy development towards vitamin D deficiency prevention*, C.M O' Neill, A. Kazantzidis, M. Kiely, I. Cox, S. Meadows, G. Goldberg, A. Prentice, R. Kift, AR Webb, K.D. Cashman, **Journal of Steroid Biochemistry & Molecular Biology**, <http://dx.doi.org/10.1016/j.jsbmb.2016.09.010>, 2016.
45. *New challenges in solar resource and forecasting in Greece*, A. Kazantzidis, E. Nikitidou, V. Salamalikis, P. Tzoumanikas, A. Zagouras, **International Journal of Sustainable Energy**, <http://dx.doi.org/10.1080/14786451.2017.1280495>, 2017
46. *Measurements and model simulations of solar radiation at tilted planes, towards the maximization of energy capture*, P.I. Raptis, S. Kazadzis, B. Psiloglou, N. Kouremeti, P. Kosmopoulos, A. Kazantzidis, **Energy**, 130, 570-580, 2017.

Citation Index

Database	Number of citations	Non-self citations	h index
ISI Web of Science	788	732	18
Google Scholar	1338	---	23

CONFERENCE PRESENTATIONS (with or without proceedings)

1. *Comparison of model calculations with spectral UV measurements during the SUSPEN campaign: The effect of aerosols*, Kazantzidis, A., D. S. Balis, A. F. Bais, S. Kazadzis, E. Galani, E. Kosmidis, M. Blumthaler, **European Conference on Atmospheric UV Radiation**, Helsinki, Finland, 29 June - 2 July, 1998.
2. *Synthesis of global UV spectra from Brewer discrete measurements*, Kazantzidis A., A. Bais, **5th Biennial Brewer workshop on operation, calibration and data reporting and concurrent instrument activities**, Halkidiki, Greece, 12-18 September 1998.
3. *UV transmittance under variable aerosol conditions*, Kazantzidis A., D. S. Balis, C. Meleti, A. F. Bais, F. Cappellani and A. Redondas Marero, **XXIV General**

Assembly of the European Geophysical Society, The Hague, The Netherlands, 19-23 April 1999

4. *Laboratory investigation of the spectral and angular responses of erythral broadband detectors*, Bais, A.F., C. Topaloglou, S. Kazadzis, A. Kazantzidis, C. Meleti, **XXIV General Assembly of the European Geophysical Society**, The Hague, The Netherlands, 19-23 April 1999.
5. *Model calculations of UV spectra at the ground and comparisons with measurements at Ispra*, A. Kazantzidis, C. Meleti, A.F. Bais and F. Cappellani, **European Geophysical Society, 25th General Assembly**, Nice, France, 25-29 April 2000.
6. *Comparisons of radiance spectral measurements with model calculations under different atmospheric conditions*, A.F. Bais, A. Kazantzidis, C. Topaloglou, S. Kazadzis, **International Radiation Symposium (IRS 2000)**, St Petersburg State University, St. Petersburg, Russia. 24-29 July 2000.
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PROJECT EVALUATIONS

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