

**ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ**

**ΤΟΥ**

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## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

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## **B. ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΕΝΩΣΕΙΣ ΚΑΙ ΕΠΙΤΡΟΠΕΣ**

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3. Μέλος της Environmental Division της European Physical Society
4. Μέλος της American Geophysical Union
5. Εκλεγμένο Μέλος του ΔΣ του European Aerosol Research Lidar Network (EARLINET) (2004-2007)
6. Εκλεγμένο μέλος της Διεθνούς Επιτροπής Όζοντος – International Ozone Commission (2004-2012)
7. Εθνικός εκπρόσωπος στο GMES (Global Monitoring of the Environment and Security) Advisory Council (2006-2009)
8. Μέλος της διεθνούς επιτροπής Integrated Global Atmospheric Chemistry Observations for Ozone (IGACO-O3) (2006-)
9. Μέλος της Ελληνικής Εταιρείας Αερολυμάτων
10. Εκλεγμένο μέλος του ICLAS- International Coordination group for Laser Atmospheric Studies (2015-)

## **Γ. ΔΗΜΟΣΙΕΥΣΕΙΣ**

### **Γ1. ΜΟΝΟΓΡΑΦΙΕΣ**

**Διδακτορική διατριβή:** Συμβολή στη μελέτη διάδοσης της υπεριώδους ηλιακής ακτινοβολίας παρουσία όζοντος και αιωρούμενων σωματιδίων. Μετρήσεις με τη μέθοδο Lidar. 1997

### **Γ2. ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ (127)**

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## **Γ5. ΔΗΜΟΣΙΕΥΣΕΙΣ-ΠΑΡΟΥΣΙΑΣΕΙΣ ΣΕ ΕΛΛΗΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΚΑΙ ΣΥΝΕΔΡΙΑ (31)**

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#### **Δ. ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ**

**Ως επιστημονικώς υπεύθυνος**

1. Πρόγραμμα " PHOENICS - Particles of human origin extinguishing natural solar radiation in climate systems". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) , άρχισε το 2002 και ολοκληρώθηκε το 2004.
2. Πρόγραμμα "Development of algorithms for retrieval of GOME total ozone column (TOGOMI)". Το πρόγραμμα επιχορηγήθηκε από τη Μετεωρολογική υπηρεσία της Ολλανδίας (KNMI), άρχισε και ολοκληρώθηκε το 2003,
3. Πρόγραμμα "On the extended development and implementation of certain activities of a EUMETSAT Satellite application facility on ozone monitoring". Το πρόγραμμα επιχορηγήθηκε από την EUMETSAT , άρχισε το 2003 και ολοκληρώθηκε το 2007.
4. Πρόγραμμα «Νέος αλγόριθμος όζοντος του GOME και επανεκτίμηση» . Το πρόγραμμα επιχορηγήθηκε από την European Space Agency μέσω της German Aerospace Agency (DLR) , άρχισε και ολοκληρώθηκε το 2004.
5. Πρόγραμμα «Χαρτογράφηση ολικού όζοντος για το βόρειο ημισφαίριο σε πραγματικό χρόνο στο πλαίσιο του Global Atmosphere Watch». Το πρόγραμμα επιχορηγήθηκε από τη ΓΓΕΤ, άρχισε το 2005 και ολοκληρώθηκε το 2007
6. Πρόγραμμα «Παρακολούθηση πρωτοκόλλων για το GMES (PROMOTE)». Το πρόγραμμα επιχορηγήθηκε από την European Space Agency μέσω της Μετεωρολογικής Υπηρεσίας της Ολλανδίας (KNMI) , άρχισε το 2005 και ολοκληρώθηκε το 2006.
7. Πρόγραμμα «Αναβάθμιση των δεδομένων του GOME". Το πρόγραμμα επιχορηγήθηκε από την European Space Agency μέσω της German Aerospace Agency (DLR) , άρχισε και ολοκληρώθηκε το 2006.
8. Πρόγραμμα «Ευρωπαϊκό Ερευνητικό Δίκτυο Lidar για τα αιωρούμενα σωματίδια. (EARLINET ASOS)». Το πρόγραμμα επιχορηγείται από την Ε.Ε., άρχισε το 2006 και θα ολοκληρωθεί το 2011
9. Πρόγραμμα «Παρακολούθηση και πρόγνωση της αέριας ρύπανσης στη Κίνα». Το πρόγραμμα επιχορηγείται από την Ε.Ε., άρχισε το 2007 και ολοκληρώθηκε το 2009
10. Πρόγραμμα «Παρακολούθηση πρωτοκόλλων για το GMES-2 (PROMOTE Phase 2)». Το πρόγραμμα επιχορηγείται από την European Space Agency μέσω της German Aerospace Agency (DLR) , άρχισε το 2007 και ολοκληρώθηκε το 2009.
11. Πρόγραμμα «GDP5.0 Αναβάθμιση των δεδομένων L1 και L2 του GOME». Το πρόγραμμα επιχορηγείται από την European Space Agency μέσω της German Aerospace Agency (DLR) , άρχισε το 2007 και θα ολοκληρωθεί το 2010.
12. Πρόγραμμα «Προηγμένες τεχνικές τηλεπισκόπησης για την παρακολούθηση και προστασία δασικών και άλλων χερσαίων Οικοσυστημάτων». Το πρόγραμμα επιχορηγείται από τη ΓΓΕΤ, άρχισε το 2007 ολοκληρώθηκε το 2008
13. Πρόγραμμα «Αιωρούμενα Σωματίδια και Νέφη». Το πρόγραμμα επιχορηγήθηκε από τον ΕΟΔ, άρχισε το 2008 και ολοκληρώθηκε το 2010.
14. Πρόγραμμα «Δορυφορική υπηρεσία όζοντος και ατμοσφαιρικής χημείας. (EUMETSAT)». Το πρόγραμμα επιχορηγείται από τη EUMETSAT μέσω της Φινλανδικής Μετεωρολογικής Υπηρεσίας (FMI), άρχισε το 2007 και ολοκληρώθηκε το 2012.
15. Πρόγραμμα «Space-based applications at the service of European Society -Preoperational validation of GMES services and products -Stimulating the development of downstream services (PASODOBLE). Το πρόγραμμα επιχορηγείται από την Ε.Ε. στα πλαίσια του FP7, άρχισε το 2010 και ολοκληρώθηκε το 2013.
16. Πρόγραμμα «Building consolidated climate-relevant ozone data sets in the framework of the ESA's Climate Change Initiative (CCI)». Το πρόγραμμα επιχορηγείται από την European Space Agency άρχισε το 2010 και ολοκληρώθηκε το 2013.

- 17.Πρόγραμμα «Αξιολόγηση δορυφορικών δεδομένων ολικού όζοντος επιπέδου 3», Το πρόγραμμα επιχορηγείται από την European Space Agency μέσω της German Aerospace Agency (DLR) , άρχισε το 2011 και ολοκληρώθηκε το 2012.
- 18.Πρόγραμμα «Δορυφορική Υπηρεσία Όζοντος και Ατμοσφαιρικής Χημείας της EUMETSAT - Φάση Β». Το πρόγραμμα επιχορηγήθηκε από τη EUMETSAT, άρχισε το 2012 και θα ολοκληρωθεί το 2017
- 19.Πρόγραμμα «Ανάπτυξη συστήματος παρακολούθησης της ηφαιστειακής τέφρας». Το πρόγραμμα επιχορηγείται από την European Space Agency άρχισε το 2012 και ολοκληρώθηκε το 2014.
20. Πρόγραμμα «Ανάπτυξη εκπαιδευτικού υλικού για το δορυφόρο GOME», Το πρόγραμμα επιχορηγείται από την European Space Agency άρχισε το 2014 και ολοκληρώθηκε το 2015
21. Πρόγραμμα «Επιχειρησιακή Πρόγνωση της Ποιότητας του Αέρα στην Ελλάδα και στη Γερμανία», Πρόγραμμα προώθησης των ανταλλαγών και της επιστημονικής συνεργασίας Ελλάδας – Γερμανίας, IKYDA 2014, άρχισε το 2014 και ολοκληρώθηκε το 2015
- 22.Πρόγραμμα «Συνεργασία Κίνας-Ευρωπαϊκής Ένωσης για την αξιολόγηση και παρακολούθηση της αέριας ρύπανσης στη Κίνα με τη χρήση δορυφορικών δεδομένων», Το πρόγραμμα επιχορηγείται από την Ε.Ε. στα πλαίσια του FP7, άρχισε το 2014 και θα ολοκληρωθεί το 2016.
- 23.Πρόγραμμα «Building consolidated climate-relevant ozone data sets in the framework of the ESA's Climate Change Initiative (CCI)- Phase II». Το πρόγραμμα επιχορηγείται από την European Space Agency άρχισε το 2014 και θα ολοκληρωθεί το 2017.

#### **Ως ερευνητής**

- 24.Πρόγραμμα με τίτλο "Προκαταρκτική μελέτη της αέριας ρύπανσης από διοξείδιο του θείου και αιωρούμενα σωματίδια στην κοιλάδα της Πτολεμαΐδας". Το πρόγραμμα επιχορηγήθηκε από τη Νομαρχία Κοζάνης και ολοκληρώθηκε το 1991
- 25.Πρόγραμμα με τίτλο "European Arctic Stratospheric Ozone Experiment". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ο.Κ. (STEP), άρχισε το 1991 και ολοκληρώθηκε το 1992. (ερευνητής)
- 26.Πρόγραμμα STEP-PL 900269, με τίτλο "Determination of standards for a UVB monitoring network". Το πρόγραμμα επιχορηγήθηκε από την ΓΓΕΤ, άρχισε το 1992 και ολοκληρώθηκε το 1993.
- 27.Πρόγραμμα STRIDE HELLAS 326 με τίτλο "Modelling of UV solar radiation transfer through rural and urban atmospheres and development of a National Network in Greece". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ο.Κ. (STRIDE), άρχισε το 1992 και ολοκληρώθηκε το 1994.
- 28.Πρόγραμμα "Συνεχής παρακολούθηση και εκτίμηση της επίπτωσης της δραστηριότητας της ΔΕΗ στην αέρια ρύπανση, στις λεκάνες Αμυνταίου-Πτολεμαΐδας-Κοζάνης". Το πρόγραμμα επιχορηγήθηκε από τη ΔΕΗ, άρχισε το 1992 και ολοκληρώθηκε το 1997.
- 29.Πρόγραμμα με τίτλο "Second European Stratospheric Arctic and Middle Latitudes Experiment". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ο.Κ. (ENVIRONMENT), άρχισε το 1994 και ολοκληρώθηκε το 1995
- 30.Πρόγραμμα ΠΕΝΕΔ με τίτλο "Σύστημα υπολογισμού της διασποράς αερίων ρύπων από βιομηχανικές καμινάδες, σε συνθήκες πραγματικού χρόνου". Το πρόγραμμα επιχορηγήθηκε από τη Γ.Γ.Ε.Τ., άρχισε το 1992 και ολοκληρώθηκε το 1995.

- 31.Πρόγραμμα "Mediterranean Campaign of Photochemical Tracers-Transport and Chemical Evolution (MEDCAPHOT-TRACE)". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (ENVIRONMENT), άρχισε το 1994 και ολοκληρώθηκε το 1996.
- 32.Πρόγραμμα B4-3040/94/000142/MAR/B3 με τίτλο "Study of a model for the quality of air concerning non-reactive pollutants in selected European cities". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXI), άρχισε το 1994 και ολοκληρώθηκε το 1995.
- 33.Πρόγραμμα "Μελέτες διάχυσης και διασποράς των αερίων ρύπων από τις υπάρχουσες και προγραμματιζόμενες μονάδες ΑΣΠ Θήρας, Μήλου, Καρπάθου, Καλύμνου. Το πρόγραμμα επιχορηγήθηκε από τη ΔΕΗ, άρχισε το 1994 και ολοκληρώθηκε το 1995.
- 34.Πρόγραμμα "Photochemical Activity and Ultraviolet Radiation". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII), άρχισε το 1996 και ολοκληρώθηκε το 1998.
- 35.Πρόγραμμα ENV4-CT95-0036 "Mediterranean Dust Experiment (MEDUSE)". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII), άρχισε το 1996 και ολοκληρώθηκε το 1998.
- 36.Πρόγραμμα ΠΕΝΕΔ "Αναβάθμιση κινητού σταθμού τηλεπισκόπησης LIDAR για τη μέτρηση και απεικόνιση της ατμοσφαιρικής ρύπανσης αστικών και βιομηχανικών περιοχών. Εφαρμογή στο ατμοσφαιρικό όζον". Το πρόγραμμα επιχορηγήθηκε από την ΓΓΕΤ, άρχισε το 1996 και ολοκληρώθηκε το 1998.
- 37.Πρόγραμμα ΠΕΝΕΔ "Μέτρηση της κατακόρυφης κατανομής του όζοντος με την Μέθοδο Umkehr.". Το πρόγραμμα επιχορηγήθηκε από την ΓΓΕΤ, άρχισε τον Απρίλιο του 1996 και ολοκληρώθηκε το 1998.
- 38.Πρόγραμμα ΠΕΝΕΔ "Μετρήσεις επιλεγμένων αερίων ρύπων σε οδική χαράδρα και σύγκριση με μαθηματικό πρότυπο". Το πρόγραμμα επιχορηγήθηκε από την ΓΓΕΤ, άρχισε τον Απρίλιο του 1996 και ολοκληρώθηκε το 1998.
- 39.Πρόγραμμα "A diagnostic simulation of UAM in a large urban canopy". Το πρόγραμμα επιχορηγήθηκε από την ISPRA-JRC-EU, άρχισε και ολοκληρώθηκε το 1996.
- 40.Πρόγραμμα STAAARTE 1996 "DIAL ozone measurements onboard ARAT aircraft". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII).
- 41.Πρόγραμμα "Air Quality Monitoring program at Mesogia Plain around the Airport of Spata". Το πρόγραμμα επιχορηγήθηκε από τη εταιρεία Hochtief, άρχισε το 1997 και ολοκληρώθηκε το 1998.
- 42.Πρόγραμμα "Πρόβλεψη της ατμοσφαιρικής ρύπανσης της Αθήνας για το έτος 2004". Το πρόγραμμα επιχορηγήθηκε από τον "Οργανισμό Αθήνα 2004", το 1997.
- 43.Πρόγραμμα "ESMOS/Arctic II". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII), άρχισε το 1996 και ολοκληρώθηκε το 1999.
- 44.Πρόγραμμα "Photochemical modeling using UAM-4 model within AUT-OIL2 program". Το πρόγραμμα επιχορηγήθηκε από την ISPRA-JRC-EU, άρχισε και ολοκληρώθηκε το 1999.
- 45.Πρόγραμμα "Photochemical Activity and Ultraviolet Radiation modulation factors". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII), άρχισε το 1998 ολοκληρώθηκε το 2000.
- 46.Πρόγραμμα "Concerted Actions on Scientific Strategy in the Stratosphere". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DG XII), άρχισε το 1998 και ολοκληρώθηκε το 2000.
- 47.Πρόγραμμα, "Small Scale structure Early Warning & Monitoring in Atmospheric Ozone & Related Exposure to UV-B radiation (STREAMER)", ). Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) άρχισε το 1998 και ολοκληρώθηκε το 2001.
- 48.Πρόγραμμα "Development of an Ozone Satellite Application Facility". Το πρόγραμμα επιχορηγήθηκε από την EUMETSAT, άρχισε το 1997 και ολοκληρώθηκε το 2002.

- 49.Πρόγραμμα "Liquid hydrogen fuelled aircraft -system analysis (CRYOPLANE)". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) , άρχισε το 2000 και ολοκληρώθηκε το 2002.
- 50.Πρόγραμμα "Aircraft emissions: Contribution of different climate components to change in radiative forcing - Trade off to reduce atmospheric impact", Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) , άρχισε το 2000 και ολοκληρώθηκε το 2003.
- 51.Πρόγραμμα "European aerosol research Lidar network to establish an aerosols climatology.(EARLINET)". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) , άρχισε το 2000 και ολοκληρώθηκε το 2003.
- 52.Πρόγραμμα "GOME assimilated and validated ozone and nitrogen dioxide fields for scientific users and for model validations". Το πρόγραμμα επιχορηγήθηκε από την Ε.Ε. (DGXII) , άρχισε το 2001 και ολοκληρώθηκε το 2003.
- 53.Πρόγραμμα "Quantitative Understanding of Ozone losses by Bipolar Investigations". Το πρόγραμμα επιχορηγείται από την Ε.Ε. (DGXII) , άρχισε το 2002 και ολοκληρώθηκε το 2004.
- 54.Πρόγραμμα «Προηγμένες Τεχνικές Περιβαλλοντικών Μετρήσεων Και Προγνώσεων (ΠΡΟΤΕΠΕ)». Το πρόγραμμα επιχορηγήθηκε από τη ΓΓΕΤ, άρχισε το 2004 και ολοκληρώθηκε το 2005.
- 55.Πρόγραμμα ΠΥΘΑΓΟΡΑΣ «Περιβαλλοντικές Επιδράσεις των Μεταφερόμενων Αιωρούμενων Σωματιδίων». Το πρόγραμμα επιχορηγήθηκε από το ΥΠΕΠΘ, άρχισε το 2004 και ολοκληρώθηκε το 2006
- 56.Πρόγραμμα «Μεταβολές της υπεριώδους ακτινοβολίας υπό συνθήκες διαφορετικών τύπων αερολυμάτων από επίγειες και δορυφορικές παρατηρήσεις». Το πρόγραμμα επιχορηγήθηκε από τη ΓΓΕΤ, άρχισε το 2006 και ολοκληρώθηκε το 2008.
- 57.Πρόγραμμα ΠΕΝΕΔ «Μελέτη των ατμοσφαιρικών διεργασιών μεταφοράς αιωρούμενων σωματιδίων με την συνδυαστική χρήση δορυφορικών και επίγειων μετρήσεων καθώς και τη χρήση υπολογιστικών μοντέλων». Το πρόγραμμα επιχορηγήθηκε από τη ΓΓΕΤ, άρχισε το 2005 ολοκληρώθηκε το 2008.
- 58.Πρόγραμμα «Stratosphere-Climate Links With Emphasis On The UTLS-SCOUT-O3». Το πρόγραμμα επιχορηγήθηκε από τη Ε.Ε (FP6) , άρχισε το 2004 και ολοκληρώθηκε το 2009.
- 59.Πρόγραμμα «Building Infrastructure for the validation of satellite derived atmospheric parameters (PHAETHON)». Το πρόγραμμα επιχορηγείται από τον ΕΟΔ, άρχισε το 2009 και ολοκληρώθηκε το 2011
- 60.Πρόγραμμα «Aerosols, Clouds, and Trace gases Research Infrastructure Network» ACTRIS. Το πρόγραμμα επιχορηγείται από την Ε.Ε στα πλαίσια του FP7. Η εκτέλεση του προγράμματος ξεκίνησε το 2011 και ολοκληρώθηκε το 2015. (associated partner)
- 61.Πρόγραμμα «Βελτιστοποίηση και επέκταση επίγειας υποδομής για την πιστοποίηση μετρήσεων ατμοσφαιρικών συστατικών από δορυφορικά όργανα», ΕΣΠΑ 2007-2013, ΑΡΙΣΤΕΙΑ Ι. Η εκτέλεση του προγράμματος ξεκίνησε το 2012 και ολοκληρώθηκε το 2015.
- 62.Πρόγραμμα «Σύστημα διασφάλισης ποιότητας βασικών κλιματικών μεταβλητών-Q4ECV». Το πρόγραμμα επιχορηγείται από την Ε.Ε. στα πλαίσια του FP7, άρχισε το 2014 και θα ολοκληρωθεί το 2017.
- 63.Πρόγραμμα «Aerosols, Clouds, and Trace gases Research Infrastructure Network-Phase II». Το πρόγραμμα επιχορηγείται από την Ε.Ε στα πλαίσια του FP7. Η εκτέλεση του προγράμματος ξεκίνησε το 2015 και θα ολοκληρωθεί το 2018 (associated partner).

Έχω συμμετάσχει σε δεκάδες πολυήμερες συναντήσεις προόδου και ομάδων εργασίας στο εξωτερικό στα πλαίσια των ερευνητικών προγραμμάτων και των διεθνών συνεργασιών που έχουν αναπτυχθεί (δεν παρουσιάζονται αναλυτικά). Επίσης έχω συμμετάσχει στη συγγραφή των αντίστοιχων τελικών εκθέσεων προς τους φορείς χρηματοδότησης (δεν παρουσιάζονται αναλυτικά).

## Ε. ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1994       | Διδασκαλία στο 1ο ΙΕΚ Θεσσαλονίκης του μαθήματος "Εργαστήριο Φυσικής της Ατμόσφαιρας"                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1998-1999: | Φροντιστηριακές ασκήσεις του μαθήματος «Εισαγωγή στη Φυσική της Ατμόσφαιρας», του Φυσικού Τμήματος του Α.Π.Θ.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1999-2001  | Συνδιδασκαλία του μαθήματος «Εργαστηριακές ασκήσεις πεδίου», του Μεταπτυχιακού Προγράμματος Σπουδών Φυσικής Περιβάλλοντος, του Φυσικού Τμήματος του Α.Π.Θ.                                                                                                                                                                                                                                                                                                                                                                        |
| 2001-2008: | Συνδιδασκαλία του μαθήματος επιλογής «Εφαρμογές Πληροφορικής στο Περιβάλλον» (1 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)<br>Συνδιδασκαλία των μαθημάτων «Εργαστηριακές Ασκήσεις και μετρήσεις πεδίου Ι και ΙΙ» (3 <sup>ο</sup> και 4 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)                                                                                                                                                                                                           |
| 2001-:     | Συνδιδασκαλία του μαθήματος επιλογής «Ατμοσφαιρική Τεχνολογία» (8 <sup>ο</sup> εξάμηνο, Τμήμα Φυσικής, ΑΠΘ)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2001-2015: | Συνδιδασκαλία του μαθήματος επιλογής «Φυσική της Ατμόσφαιρας» (8 <sup>ο</sup> εξάμηνο, Τμήμα Φυσικής, ΑΠΘ)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2001-:     | Διδασκαλία του μαθήματος «Μελέτες Περιβαλλοντικών Επιπτώσεων» (3 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2002-:     | Συνδιδασκαλία του του μαθήματος «Εισαγωγή στη Φυσική της Ατμόσφαιρας», του Φυσικού Τμήματος του Α.Π.Θ.(3 <sup>ο</sup> εξάμηνο, Τμήμα Φυσικής, ΑΠΘ)                                                                                                                                                                                                                                                                                                                                                                                |
| 2008-:     | Διδασκαλία του μαθήματος «Ατμοσφαιρικά Αιωρήματα», (3 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)<br>Συνδιδασκαλία του μαθήματος «Διαχείριση Περιβάλλοντος», (3 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)<br>Συνδιδασκαλία του μαθήματος «Τεχνικές Μέτρησης Ατμοσφαιρικών Παραμέτρων, (2 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ)<br>Συνδιδασκαλία του μαθήματος «Ανάλυση Περιβαλλοντικών Μετρήσεων», (1 <sup>ο</sup> εξάμηνο Μεταπτυχιακό Φυσικής Περιβάλλοντος, ΑΠΘ) |
| 2016-:     | Συνδιδασκαλία του μαθήματος επιλογής «Παγκόσμιες Περιβαλλοντικές Μεταβολές» (8 <sup>ο</sup> εξάμηνο, Τμήμα Φυσικής, ΑΠΘ)                                                                                                                                                                                                                                                                                                                                                                                                          |

Επίβλεψη πάνω από 40 πτυχιακών εργασιών σε προπτυχιακό επίπεδο στα πλαίσια της κατεύθυνσης «Φυσική της Ατμόσφαιρας και Περιβάλλον» και περίπου 30 διπλωματικών

εργασιών στα πλαίσια του Μεταπτυχιακού Προγράμματος Σπουδών «Φυσική του Περιβάλλοντος»,

#### **ΣΤ. ΕΠΙΒΛΕΨΗ ΔΙΑΤΡΙΒΩΝ**

Επιβλέπων καθηγητής σε δύο περατωθείσες διδακτορικές διατριβές στα πλαίσια του Μεταπτυχιακού Φυσικής Περιβάλλοντος (Ε. Γιαννακάκη, Ε. Ζυριχίδου)

Επιβλέπων καθηγητής σε τρεις υπό εκπόνηση διδακτορικές διατριβές στα πλαίσια του Μεταπτυχιακού Φυσικής Περιβάλλοντος (Ε. Μαρίνου, Ν. Σιώμος, Κ. Βουδούρη)

Μέλος της τριμελούς επιτροπής στις υπό εκπόνηση διδακτορικές διατριβές των Χ. Γιάνναρου, Θ. Δρόσγλου, Α. Νάτση στα πλαίσια του Μεταπτυχιακού Φυσικής Περιβάλλοντος.

Μέλος της εξεταστικής επιτροπής σε 3 διδακτορικές διατριβές σε πανεπιστήμια του εξωτερικού University of Basilicata, Italy και University of Granada, Spain (Ι. Binetoglou, Maria Munoz Granados, Ν. Παργιαννoulou)

Μέλος της επταμελούς εξεταστικής επιτροπής σε 23 διδακτορικές διατριβές (Π. Συμεωνίδη, Σ. Καραθανάσης, Χ. Τοπάλογλου, Ι. Κιουτσιούκης, Α. Καζαντζίδης, Α. Βασάρας, Α. Καραφυλλίδης, Ε. Γαλάνη, Β. Αμοιρίδης, Α. Πούπκου, Α. Γκαρσάνε, Δ. Παπαναστασίου, κ. Ελευθεράτος, Κ. Μαρκάκη, Ε. Δερμιτζάκη, Η. Λυσαρίδης, Κ. Κελετσόγλου, Α. Γεωργούλιας, Ν. Κουρεμέτη, Γ. Αλεξανδρή, Θ. Γιάνναρος, Μ. Ζεμπίλα, Κ. Φράγκος)

#### **Ζ. ΣΥΓΓΡΑΦΗ ΣΗΜΕΙΩΣΕΩΝ**

1. Μελάς Δ., Πασχαλίδης Σ., Μπαλής Δ., Μελέτη Χ. και Καραούζα Β., "Εργαστήρια Φυσικής Ατμοσφαιρικού Περιβάλλοντος", Σημειώσεις για το 1ο κρατικό ΙΕΚ Θεσσαλονίκης, τμήμα "Τεχνικοί ελέγχου εργασιακού και βιομηχανικού περιβάλλοντος", 1994
2. Μελάς Δ., Κ. Ελευθεριάδης, Κ. Κουρτίδης και Δ. Μπαλής, Σημειώσεις του μαθήματος "Ρύπανση του αέρα", 1ο Κρατικό ΙΕΚ Θεσσαλονίκης, 73 σελ., 1996
3. Α. Μπάης, Δ. Μελάς, Δ. Μπαλής, Σημειώσεις του μαθήματος Ατμοσφαιρική Τεχνολογία, 8ο εξάμηνο, σ115, ΑΠΘ, 2003.
4. Δ. Μπαλής, Α. Μπάης, Σημειώσεις του μαθήματος Φυσική της Ατμόσφαιρας, 8ο εξάμηνο, σ143, ΑΠΘ, 2003
5. Α. Μπάης, Δ. Μελάς, Δ. Μπαλής, Ατμοσφαιρική Τεχνολογία, ΚΑΛΛΙΠΟΣ, 2016

#### **Η. ΔΙΑΛΕΞΕΙΣ-ΣΕΜΙΝΑΡΙΑ-ΠΡΟΣΚΕΚΛΗΜΕΝΕΣ ΟΜΙΛΙΕΣ**

1. Μπαλής Δ., «Επίγειες και δορυφορικές μετρήσεις του περιβάλλοντος», Βαφοπούλειο Πνευματικό Κέντρο Δήμου Θεσσαλονίκης, Θεσσαλονίκη, 18 Μαρτίου 1998
2. Balis D., "Remote sensing of the atmosphere using the Lidar technique" An international seminar on current issues of astronomical and planetary environmental concern, British Council and AUTH, Thessaloniki, Greece, 6-7 April 1998

3. Balis D., "Ozone Evolution at mid and high latitudes, 5<sup>th</sup> European Symposium on Stratospheric Ozone, 27 Sep-1 Oct 1999, Saint Jean De Luz, France
4. Balis D., "Ozone monitoring and Research, 3<sup>rd</sup> Global Monitoring of the Environment and Security Forum, Athens, 5-6 June 2003
5. Balis D. "Evolution of the ozone extreme departures over the polar regions", International Geosphere Biosphere Program, Athens, 31-3-2004
6. Μπαλής Δ. Τεχνικές Περιβαλλοντικής Τηλεπισκόπησης, Δίκτυο ΠΡΟΤΕΠΕ-ΓΓΕΤ, Φεβρουάριος 2004
7. Μπαλής Δ., Μελέτη της Ατμοσφαιρικής ρύπανσης στα Βαλκάνια με τη χρήση δορυφορικών παρατηρήσεων, Δίκτυο ΠΡΟΤΗΠΑ-ΓΓΕΤ, Αθήνα, 6-10-2008
8. Μπαλής Δ., Προοπτικές για την παρακολούθηση της αέριας ρύπανσης από δορυφόρους, Δίκτυο ΠΡΟΤΗΠΑ-ΓΓΕΤ, Θεσσαλονίκη, 15-10-2008
9. Balis D., "Forest fire aerosols, Optical and microphysical observations from EARLINET observations, 1<sup>st</sup> GAW Aerosol Lidar Observation Network (GALION) Workshop, Geneva 20-9-2010

## **Θ. ΚΡΙΤΗΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ**

### Κριτής στα περιοδικά:

1. Journal of Geophysical Research
2. Geophysical Research Letters
3. Atmospheric Chemistry and Physics
4. Atmospheric Measurement Techniques
5. Journal of Atmospheric and Solar-Terrestrial Physics
6. Atmospheric Research
7. Applied Optics
8. Annales Geophysicae
9. Atmospheric Environment
10. Atmospheric Research
11. Tellus
12. International Journal of Remote Sensing
13. Natural Hazards
14. Journal of Atmospheric and Oceanic Technology
15. Science of the Total Environment
16. Meteorology and Atmospheric Physics
17. Remote Sensing of the Environment
18. Water, Air and Soil Pollution
19. Lasers in Engineering

## **Ι. ΕΠΙΤΡΟΠΕΣ ΑΞΙΟΛΟΓΗΣΗΣ**

1. Επιτροπή αξιολόγησης « Global Change, Climate and Biodiversity under the Programme Energy, Environment and Sustainable Development, FP5
2. Επιτροπή αξιολόγησης για «Marie Curie Fellowships, Advanced Study Courses and René Descartes Prize within FP5»

3. Αξιολόγηση προτάσεων της Επιτροπής Ερευνών του Πανεπιστημίου Κρήτης
4. Αξιολόγηση προτάσεων της Ακαδημίας Επιστημών της Δημοκρατίας της Τσεχίας
5. Αξιολόγηση προτάσεων του Εθνικού Κέντρου Επιστημών της Δημοκρατίας της Πολωνίας
6. Αξιολόγηση προτάσεων του National Science Foundation, USA

## **ΙΑ. ΠΕΙΡΑΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ**

1. Μετρήσεις αιωρούμενων σωματιδίων και όζοντος με τη διάταξη lidar (Light Detection and Ranging)
2. Μετρήσεις της κατακόρυφης κατανομής του όζοντος με τη χρήση οζοντοβολίδων
3. Μετρήσεις αέριων ρύπων με τη μέθοδο Differential Optical Absorption Spectroscopy (DOAS)
4. Μετεωρολογικές μετρήσεις με δέσμιο αερόστατο.
5. Μετρήσεις αέριων ρύπων με συμβατικούς αναλυτές
6. Μετρήσεις οπτικού βάθους με το φωτόμετρο ορατού CIMEL

## **ΙΒ. ΔΙΟΡΓΑΝΩΣΗ ΣΥΝΕΔΡΙΩΝ-WORKSHOPS**

1. Τοπικός οργανωτής του «SAF Ozone monitoring training workshop», Halkidiki, Greece, 21-23 May 2001,
2. Μέλος της επιστημονικής επιτροπής του 20<sup>ου</sup> Παγκόσμιου Συνεδρίου Όζοντος, Κως, Ελλάδα, 1-8 Ιουνίου 2004.
3. Διοργάνωση workshop του δικτύου EARLINET, Θεσσαλονίκη, Φεβρουάριος 2008
4. Μέλος της επιστημονικής επιτροπής του Συμποσίου για την 20<sup>η</sup> Επέτειο του Πρωτοκόλλου του Μόντρεαλ, Αθήνα, 23-26 Σεπτεμβρίου 2007.
5. Τοπικός οργανωτής του « Ozone SAF User and algorithm Forum», Halkidiki, Greece, 2-4 June 2009
6. Μέλος της οργανωτικής και επιστημονικής Επιτροπής του International Laser Radar Conference, Port-Heli, Greece, 2012.
7. Μέλος της επιστημονικής επιτροπής του 22<sup>ου</sup> Παγκόσμιου Συνεδρίου Όζοντος, Toronto, Canada, 2012.
8. Μέλος της επιστημονικής Επιτροπής του ESA living planet, Edinburgh, UK, 2013
9. Μέλος της επιστημονικής Επιτροπής του International Conference on Meteorology, Climatology and Atmospheric Physics, Heraklion, Greece, 2014
10. Μέλος της επιστημονικής Επιτροπής του ESA Atmospheric Science, Conference, 2015
11. Μέλος της επιστημονικής Επιτροπής του ESA living planet, Prague, Czech Republic 2016
12. Μέλος της επιστημονικής Επιτροπής του International Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece 2016

## **ΙΓ. ΔΙΑΚΡΙΣΕΙΣ**

2000: Βράβευση από τον Παγκόσμιο Μετεωρολογικό Οργανισμό και το Μαριολοπουλειο-Καναγκίνειο Ίδρυμα της εργασίας 12.

#### **ΙΑ. ΔΙΕΘΝΕΙΣ ΣΥΝΕΡΓΑΣΙΕΣ**

Στο πλαίσιο των ερευνητικών προγραμμάτων και δραστηριοτήτων έχουν αναπτυχθεί συνεργασίες με τα παρακάτω ιδρύματα-ιστιτούτα:

- Belgian Institute for Space Aeronomy (BIRA-IASB) (M. Van Roozendaal, J-C. Lambert)
- German Aerospace Center (DLR) (D. Loyola, P. Valks, M. Bittner, T, Ebertseder)
- Royal Netherlands Meteorological Institute (KNMI) (R. Van der A., H. Eskes, M. Kroon)
- University of Bremen (IUP) (A. Richter)
- University of Cambridge (UCAM) (N. Harris)
- Finnish Meteorological Institute (FMI) (P.Taalas, J. Kujanpaa)
- Royal Meteorological Institute of Belgium (KMI-IRM) (H. de Backer, A. Delcloo))
- Danish Meteorological Institute (DMI)
- German Weather Service (DWD) (H. Claude, L. Kins, W. Thomas)
- World Meteorological Organizations (WMO) (R. Bojkov, G. Braatehn)
- National Aeronautics and Space Administration (NASA) (R. McPeters, G. Labow)
- Environment Canada (V. Fioletov)
- Max Planck Institute for Meterology, Hamburg (S. Kinne)
- Institute for Tropospheric Research, Leipzig, Germany (A. Ansmann)
- University of Granada, Spain (L.A. Arboledas)
- Ludwig-Maximilians-Universität, Meteorological Institute, München, Germany (M. Wiegner)
- RIVM - National Institute for Public Health and the Environment, Netherlands (A. Apituely)
- Consiglio Nazionale delle Ricerche - Istituto di Metodologie per l'Analisi Ambientale (CNR-IMAA)(G. Pappalardo)
- National Institute of R&D for Optoelectronics, Romania (D. Nicolae)
- University Politecnica de Catalunya, Spain (Adolfo Cameron)
- Università Degli Studi dell'Aquila (V. Rizi)
- University of Oslo, Institute of Geophysics, (I. Isaksen)
- Norwegian Instiute for Air Research (NILU), (G. Hansen)
- European Space Agency, ESRI, Frascati, Italy (C. Zehner)

**Πίνακας αναφορών σε δημοσιευμένες εργασίες σε περιοδικά (πηγές: WOS, SCOPUS)**

| <b>Αριθμός<br/>εργασίας</b> | <b>Αριθμός<br/>αναφορών<br/>Scopus</b> | <b>Αριθμός<br/>αναφορών<br/>WOS</b> | <b>Αριθμός<br/>εργασίας</b> | <b>Αριθμός<br/>αναφορών<br/>Scopus</b> | <b>Αριθμός<br/>αναφορών<br/>WOS</b> |
|-----------------------------|----------------------------------------|-------------------------------------|-----------------------------|----------------------------------------|-------------------------------------|
| <b>1</b>                    | -                                      | 82                                  | <b>42</b>                   | 40                                     | 46                                  |
| <b>2</b>                    | -                                      | 8                                   | <b>43</b>                   | 14                                     | 17                                  |
| <b>3</b>                    | 0                                      | 0                                   | <b>44</b>                   | 109                                    | 101                                 |
| <b>4</b>                    | 46                                     | -                                   | <b>45</b>                   | 58                                     | 45                                  |
| <b>5</b>                    | 18                                     | 21                                  | <b>46</b>                   | 86                                     | 83                                  |
| <b>6</b>                    | 51                                     | 51                                  | <b>47</b>                   | 153                                    | 128                                 |
| <b>7</b>                    | 8                                      | 7                                   | <b>48</b>                   | 37                                     | 32                                  |
| <b>8</b>                    | -                                      | 71                                  | <b>49</b>                   | 74                                     | 64                                  |
| <b>9</b>                    | 79                                     | -                                   | <b>50</b>                   | 94                                     | 83                                  |
| <b>10</b>                   | 6                                      | -                                   | <b>51</b>                   | 11                                     | 11                                  |
| <b>11</b>                   | 40                                     | 41                                  | <b>52</b>                   | 48                                     | 42                                  |
| <b>12</b>                   | 9                                      | 10                                  | <b>53</b>                   | 49                                     | 49                                  |
| <b>13</b>                   | 52                                     | 51                                  | <b>54</b>                   | 5                                      | 6                                   |
| <b>14</b>                   | 56                                     | 55                                  | <b>55</b>                   | 42                                     | 40                                  |
| <b>15</b>                   | 49                                     | 51                                  | <b>56</b>                   | 101                                    | 111                                 |
| <b>16</b>                   | 88                                     | -                                   | <b>57</b>                   | 7                                      | 8                                   |
| <b>17</b>                   | 0                                      | 0                                   | <b>58</b>                   | 15                                     | 15                                  |
| <b>18</b>                   | 18                                     | 21                                  | <b>59</b>                   | 3                                      | -                                   |
| <b>19</b>                   | 62                                     | 60                                  | <b>60</b>                   | 81                                     | 78                                  |
| <b>20</b>                   | 25                                     | 22                                  | <b>61</b>                   | 13                                     | -                                   |
| <b>21</b>                   | 41                                     | 40                                  | <b>62</b>                   | 62                                     | 68                                  |
| <b>22</b>                   | 65                                     | 69                                  | <b>63</b>                   | 30                                     | 32                                  |
| <b>23</b>                   | 29                                     | 28                                  | <b>64</b>                   | 25                                     | 21                                  |
| <b>24</b>                   | 6                                      | 7                                   | <b>65</b>                   | -                                      | -                                   |
| <b>25</b>                   | 36                                     | 30                                  | <b>66</b>                   | 5                                      | -                                   |
| <b>26</b>                   | 117                                    | 108                                 | <b>67</b>                   | 37                                     | 42                                  |
| <b>27</b>                   | 46                                     | 47                                  | <b>68</b>                   | 64                                     | 58                                  |
| <b>28</b>                   | 25                                     | 24                                  | <b>69</b>                   | 10                                     | 10                                  |
| <b>29</b>                   | 2                                      | 9                                   | <b>70</b>                   | 12                                     | 10                                  |
| <b>30</b>                   | 25                                     | 27                                  | <b>71</b>                   | 20                                     | 15                                  |
| <b>31</b>                   | 40                                     | 43                                  | <b>72</b>                   | 19                                     | 26                                  |
| <b>32</b>                   | 19                                     | 15                                  | <b>73</b>                   | 67                                     | 82                                  |
| <b>33</b>                   | 1                                      | 1                                   | <b>74</b>                   | 24                                     | 24                                  |
| <b>34</b>                   | 22                                     | 21                                  | <b>75</b>                   | -                                      | 79                                  |
| <b>35</b>                   | 15                                     | 12                                  | <b>76</b>                   | 29                                     | 24                                  |
| <b>36</b>                   | 41                                     | 43                                  | <b>77</b>                   | 122                                    | 126                                 |
| <b>37</b>                   | 5                                      | 5                                   | <b>78</b>                   | 26                                     | 22                                  |
| <b>38</b>                   | 25                                     | 24                                  | <b>79</b>                   | 22                                     | 20                                  |
| <b>39</b>                   | 27                                     | 32                                  | <b>80</b>                   | 10                                     | 8                                   |
| <b>40</b>                   | 43                                     | 53                                  | <b>81</b>                   | 48                                     | 48                                  |
| <b>41</b>                   | 8                                      | 7                                   | <b>82</b>                   | 27                                     | -                                   |

|            |     |     |            |     |     |
|------------|-----|-----|------------|-----|-----|
| <b>83</b>  | 4   | -   | <b>106</b> | 12  | 11  |
| <b>84</b>  | 19  | 18  | <b>107</b> | 3   | 3   |
| <b>85</b>  | 20  | 19  | <b>108</b> | 107 | 110 |
| <b>86</b>  | 33  | 31  | <b>109</b> | -   | -   |
| <b>87</b>  | 20  | 20  | <b>110</b> | 10  | 10  |
| <b>88</b>  | 7   | 6   | <b>111</b> | 1   | -   |
| <b>89</b>  | 70  | 67  | <b>112</b> | 7   | 4   |
| <b>90</b>  | 23  | 23  | <b>113</b> | 1   | -   |
| <b>91</b>  | 1   | -   | <b>114</b> | 1   | 1   |
| <b>92</b>  | 23  | 21  | <b>115</b> | 1   | -   |
| <b>93</b>  | 26  | 23  | <b>116</b> | 1   | 1   |
| <b>94</b>  | 1   | -   | <b>117</b> | 2   | 1   |
| <b>95</b>  | 34  | 32  | <b>118</b> | 1   | 1   |
| <b>96</b>  | 4   | 4   | <b>119</b> | -   | -   |
| <b>97</b>  | 14  | 14  | <b>120</b> | -   | -   |
| <b>98</b>  | 18  | 20  | <b>121</b> | -   | -   |
| <b>99</b>  | 269 | 257 | <b>122</b> | -   | -   |
| <b>100</b> | 1   | -   | <b>123</b> | -   | -   |
| <b>101</b> | 17  | 14  | <b>124</b> | -   | -   |
| <b>102</b> | 5   | 5   | <b>125</b> | -   | -   |
| <b>103</b> | 9   | 10  | <b>126</b> | -   | -   |
| <b>104</b> | 13  | 12  | <b>127</b> | -   | -   |
| <b>105</b> | 12  | 12  |            |     |     |

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#### SCOPUS:

Σύνολο αναφορών=**3837**, h index = **37**, σύνολο χωρίς ετεροαναφορές= **3466**

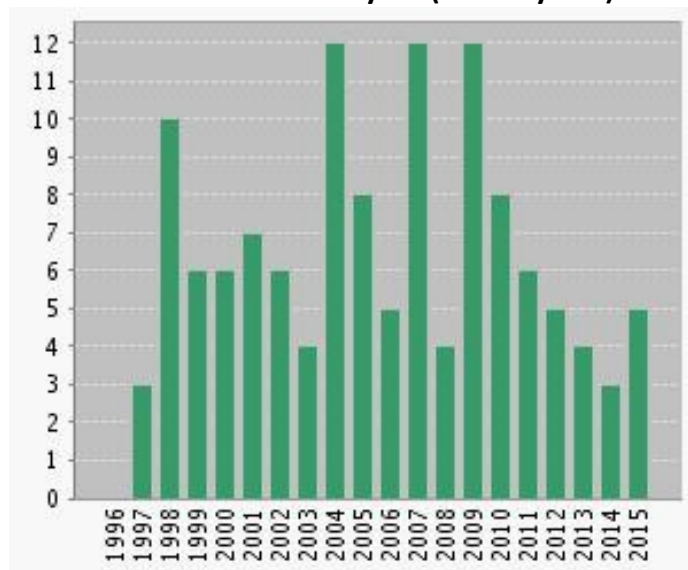
#### Google Scholar:

Σύνολο αναφορών=**3923**, h index = **34**

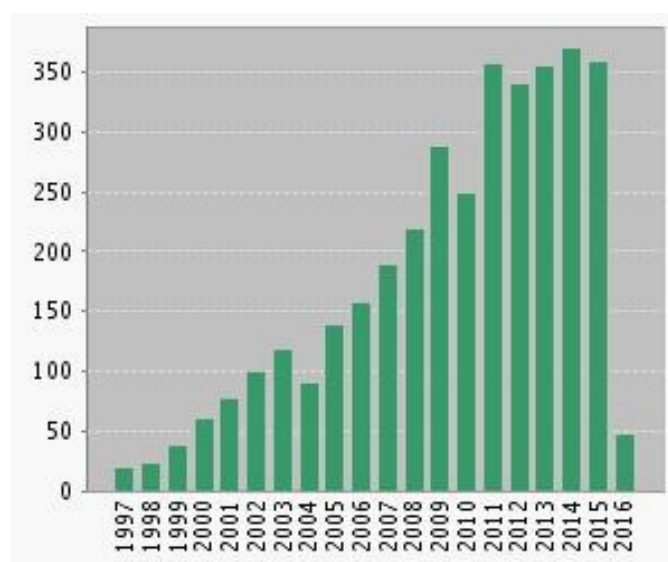
#### Research Gate:

Σύνολο αναφορών=**4740**, h index = **41**, χωρίς ετεροαναφορές: h=**38**, RG Score=**40.11**

**Publications in each year (last 20 years)**



**Citations in each year (last 20 years)**



Πηγή: Web of Science, Thomson Reuters

**Πίνακας περιοδικών και Impact factors (πηγή ISI Thomson)**

| <b>Περιοδικό</b>                               | <b>Αριθμός Δημοσιεύσεων</b> | <b>Impact Factor</b> |
|------------------------------------------------|-----------------------------|----------------------|
| Journal of Geophysical Research                | 25                          | 3.43                 |
| Atmospheric Chemistry and Physics              | 20                          | 5.05                 |
| Atmospheric Environment                        | 20                          | 3.28                 |
| Geophysical Research Letters                   | 9                           | 4.19                 |
| Atmospheric Measurements and Techniques        | 9                           | 2.93                 |
| International Journal of Remote Sensing        | 6                           | 1.65                 |
| Annales Geophysicae                            | 4                           | 1.71                 |
| Atmospheric Research                           | 3                           | 2.84                 |
| Applied Optics                                 | 3                           | 1.78                 |
| Advances in Space Research                     | 3                           | 1.36                 |
| Journal of Atmospheric Chemistry               | 2                           | 1.95                 |
| Physics and Chemistry of the Earth             | 2                           | 1.48                 |
| Atmosphere Ocean                               | 2                           | 1.39                 |
| Remote Sensing of the Environment              | 1                           | 6.39                 |
| Astroparticle Physics                          | 1                           | 3.58                 |
| International Journal of Climatology           | 1                           | 3.16                 |
| Journal of the Atmospheric Sciences            | 1                           | 3.14                 |
| Photochemistry and Photobiology                | 1                           | 2.26                 |
| Journal of Aerosol Science                     | 1                           | 2.24                 |
| Tellus B                                       | 1                           | 2.15                 |
| Theoretical and Applied Climatology            | 1                           | 2.02                 |
| Experimental Astronomy                         | 1                           | 1.99                 |
| Journal of Solar and Terrestrial Physics       | 1                           | 1.75                 |
| Remote Sensing Letters                         | 1                           | 1.57                 |
| Meteorology and Atmospheric Physics            | 1                           | 1.05                 |
| Annals of Geophysics                           | 1                           | 1.04                 |
| Terrestrial Atmospheric and Oceanic Sciences   | 1                           | 0.71                 |
| Nuovo Cimento della Societa Italiana de Fisica | 1                           | 0.49                 |
| Geomagnetism and Aeronomia                     | 1                           | 0.49                 |
| Fresenius Environmental Bulletin               | 1                           | 0.34                 |
| Beitrage zur Physik der Atmosphaere            | 1                           | -                    |
| Optica Pura y Aplicada                         | 1                           | -                    |

Weighted Impact Factor: **3.11**

## CURRICULUM VITAE

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**BIRTH PLACE:** Thessaloniki, Greece

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**STUDIES:** 1989 - BSc in Physics, Physics Department, AUTH, Greece  
(7.39/10)  
  
1998 - PhD in Physics, Physics Department, AUTH,  
Greece (Excellent)

**LANGUAGES:** Greek (native), English (excellent), German (excellent).

### A. WORK EXPERIENCE

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| 1989 :     | Greek Refineries, Environmental Monitoring Department              |
| 1989-1991: | Military Service                                                   |
| 1994:      | Teaching at Institute of Vocational Training, Thessaloniki, Greece |
| 1992-2000: | Research Fellow, Laboratory of Atmospheric Physics, AUTH, Greece   |
| 2000-2006  | Lecturer, Physics Department, AUTH, Greece                         |
| 2005-2009  | Assistant Professor, Physics Department, AUTH, Greece              |
| 2009-2011  | Assistant Professor (permanent), Physics Department, AUTH, Greece  |
| 2011-2017  | Associate Professor, Physics Department, AUTH, Greece              |
| 2017-      | Professor, Physics Department, AUTH, Greece                        |

### B. MEMBERSHIPS

1. Member of the Greek Physical Union Ενώσεως Ελλήνων Φυσικών.
2. Member of the European Geophysical Union
3. Member of the Environmental Division of the European Physical Society
4. Member of the American Geophysical Union
5. Elected member of the Council of the European Aerosol Research Lidar Network (EARLINET) (2004-2007)
6. Elected member of the International Ozone Commission (2004-2012)
7. National Representative to GMES (Global Monitoring of the Environment and Security) Advisory Council (2006-2009)
8. Member of the international committee "Integrated Global Atmospheric Chemistry Observations for Ozone (IGACO-O3)" (2006-)
9. Member of the Hellenic Association for Aerosol Research
10. Elected member of ICLAS- International Coordination group for Laser Atmospheric Studies (2015-)

## Γ. Publications

### Γ1. THESIS

**Doctoral Dissertation:** Study of the transmission of solar UV radiation in the presence of ozone and aerosols. Measurements with the lidar technique, AUTH 1997

### Γ2. PUBLICATIONS IN PEER-REVIEWED JOURNALS (127)

1. Bojkov R.D., C.S. Zerefos, D.S. Balis, I.C. Ziomas, A.F. Bais, "Record Low Total Ozone during Northern Winters 1992 and 1993", *Geophys. Res. Lett.*, 20, 13, 1351-1354 (1993).
2. Bais A.F., C.S. Zerefos, C. Meleti, I.C. Ziomas, K. Tourpali, V. Karaouza, D.S. Balis, "Variability of Solar UVB Radiation at high and middle latitudes during EASOE 91/92", *Geophys. Res. Lett.*, 21, 13, 1403-1406 (1994).
3. Bojkov, R.D., C.S. Zerefos, D.S. Balis, I.C. Ziomas, A.F. Bais, "Record ozone minimum over middle and high latitudes of the northern hemisphere during the winter-spring seasons 1991/92 and 1992/93", *Geomagnetism and Aeronomia*, 34, 97-104. (1994)
4. Ziomas, P. Suppan, B. Rappengluck, D. Balis, P. Tzoumaka, D. Melas, G. Jacobi, A. Papagiannis, P. Fabian and C. Zerefos, "A Contribution to the Study of Photochemical Smog in the Greater Athens Area", *Beitr. Phys. Atmosph.*, vol. 68, No. 3, 191-203 (1995)
5. Bojkov R.D., V. E. Fioletov, D. Balis, C.S. Zerefos, T. Kadygrova, A. Shalamjansky, "Further ozone decline during the northern hemisphere winter-spring 1994-1995 and the new record low ozone over Siberia", *Geophys. Res. Lett.*, 22, 20, 2729-2732, (1995).
6. Zerefos C.S., K. Tourpali, B.R. Bojkov, D. Balis, B. Rognerud and I. Isaksen, "Solar activity-total column ozone relationships: Observations and model studies with heterogeneous chemistry", *J. Geophys. Res.*, vol. 102, 1561-1569, (1997)
7. Ziomas I.C., P. Tzoumaka, D. Balis, A. Papayannis, D. Melas, A.F. Bais, C. S. Zerefos, "Atmospheric pollution measurements with the differential optical absorption spectroscopy method", *Fresenius Environmental Bulletin*, 320-324, (1997).

8. Zerefos C.S, D.S. Balis, A.F. Bais, D. Gillotay, P.C. Simon, B. Mayer and G. Seckmeyer, "Variability at UV-B wavelengths at four stations in Europe", **Geophys. Res. Lett.**, 24, 11, 1363-1366 (1997)
9. Marengo F. V. Santacesaria, A. Bais, D. Balis, A. Di Sarra, A. Papayannis and C.S. Zerefos, "Optical properties of tropospheric aerosols determined by lidar and spectrophotometric measurements (PAUR campaign)", **Applied Optics**, 36, 27, 6875-6886 (1997)
10. Hamonou E., P. Chazette, A. Papayannis, D. Balis, F. Marengo, V. Santacesaria and G. Ancellet, "Ground-based measurements of Saharan dust optical properties in the frame of the European MEDUSE Project", **J. Aeros. Sci.**, vol. 28, Suppl. 1, pp. S695-S696, (1997)
11. Papayannis A., D. Balis, A. Bais, H. van der Bergh, B. Calpini, E. Durieux, L. Fiorani, L. Jaquet, I. Ziomas and C.S. Zerefos, "The role of urban and suburban aerosols on solar UV radiation over Athens, Greece", **Atmospheric Environment**, Vol. 32, No. 12, 2193-2201 (1998).
12. Papayannis A. and D. Balis, "Study of the structure of the lower troposphere over Athens using a backscattering Lidar during the MEDCAPHOT-TRACE experiment: Measurements over a sub-urban area", **Atmospheric Environment**, Vol. 32, No. 12, 2161-2172 (1998).
13. Eleftheriadis K., D. Balis, I.C. Ziomas, I. Colbeck and N. Manalis, "Atmospheric aerosol and gaseous species in Athens, Greece", **Atmospheric Environment**, Vol. 32, No. 12, 2183-2191 (1998).
14. Klemm O., I. Ziomas, D. Balis, P. Suppan, J. Slemr, R. Romero and L.G. Vyras, "A 3-D summer air pollution study in Athens, Greece", **Atmospheric Environment**, Vol. 32, No. 12, 2071-2087 (1998).
15. Ziomas I.C., P. Tzoumaka, D. Balis, D. Melas and C.S. Zerefos and O. Klemm, "Ozone episodes in Athens, Greece. A modelling approach using data from the MEDCAPHOT-TRACE", **Atmospheric Environment**, Vol. 32, No. 12, 2313-2321 (1998).
16. Koepke P., A.F. Bais, D.S. Balis, M. Buchwitz, H. De Backer, X. de Cabo, P. Eckert, P. Ericksen, D. Gillotay, A. Heikkilä, T. Koskela, B. Lapeta, Z. Litynska, J. Lorente, B. Mayer, A. Renaud, A. Ruggaber, G. Schauburger, G. Seckmeyer, P. Seifert, A. Schmalwieser, H. Schwander, K. Vanicek and M. Weber, "Comparison of models used for UV index calculations", **Photochem and Photobiology**, 67, 657-662, (1998)
17. Balis D.S., K. Tourpali, C.S. Zerefos, C. Meleti, I.C. Ziomas, A.F. Bais, A. Papayannis and A. Paliatsos, "On the daily maximum UV-B doses during the significant ozone deficiencies in the transition seasons of 1992/93", **Advances in Space Research**, 22, 11, 1505-1508, (1998)
18. Santacesaria V., F. Marengo, D. Balis, A. Papayannis and C. Zerefos, "Lidar observations of the Planetary Boundary Layer above the city of Thessaloniki", **Nuovo Cimento della Societa Italiana de Fisica**, vol21, No6, 585-596 (1998).
19. Bais A.F, S. Kazadzis, D.S. Balis, C. S. Zerefos and M. Blumthaler, "Correcting global solar UV spectra recorded by a Brewer spectroradiometer for its angular response error", **Applied Optics**, 37, 27, 6339-6344 (1998)
20. Bojkov R.D., D.S. Balis and C.S. Zerefos, "Characteristics of the ozone decline in the Northern polar and middle latitudes during winter-spring", **Met. and Atmos. Phys.**, vol. 69, issue 1-2, 119-135 (1998).
21. Zerefos C.S, C. Meleti, D. Balis, K. Tourpali and A.F. Bais "Quasi-biennial and longer-term changes in clear sky UV-B solar irradiance", **Geophys. Res. Lett.**, 25,23, 4345-4348, (1998)
22. Rex, M., P. von der Gathen, G. O. Braathen, S. J. Reid, N. R. P. Harris, M. Chipperfield, E. Reimer, A. Beck, R. Alfier, R. Krüger-Carstensen, H. De Backer, D. Balis, C. Zerefos, F. O'Connor, H. Dier, V. Dorokhov, H. Fast, A. Gamma, M. Gil, E. Kyrö, M. Rummukainen, Z.

- Litynska, I. S. Mikkelsen, M. Molyneux, and G. Murphy, Chemical ozone loss in the Arctic winter 1994/95 as determined by the Match technique, *J. Atmos. Chem.*, 32, 35-59, (1999).
23. Uchino O., R.D. Bojkov, D.S. Balis, K. Akagi, M. Hayashi and R. Kajiwara, "Essential characteristics of the Antarctic-spring ozone decline", *Geophys. Res. Lett.*, Vol.26, No.10, pp.1377-1380 (1999)
  24. Papayannis, J. Porteneuve, D. Balis, C. Zerefos and E. Galani, Design of a new DIAL system for tropospheric and lower stratospheric ozone monitoring in Northern Greece, *Physics and Chemistry of the Earth*, 24,5, 439-442, (1999)
  25. Kourtidis K., I.C. Ziomas, B. Rappenglueck, A. Proyou and D.S. Balis, Evaporative traffic emissions, traffic CO and speciated hydrocarbon traffic emissions from the city of Athens, *Atmospheric Environment*, 33, 3831-3842 (1999).
  26. Hamonou E., P. Chazette, D. Balis, F. Dulac, X. Schneider, E. Galani, G. Ancellet and A. Papayannis, "Characterisation of the vertical structure of Saharan dust exports to the Mediterranean basin", *J. Geophys. Res.*, 104,D18, 22257-22270, (1999).
  27. Balis D., A. Papayannis, E. Galani, F. Marenco, V. Santacesaria, E. Hamonou, P. Chazette, I. Ziomas and C. Zerefos, Tropospheric LIDAR Aerosol Measurements and Sun Photometric Observations at Thessaloniki, Greece, *Atmospheric Environment*, 34, 925-932, (2000)
  28. Kazadzis S., A.F. Bais, D. Balis, C. Zerefos and M. Blumthaler, Retrieval of downwelling actinic flux densities using spectral measurements of global and direct solar UV irradiance, *J. Geophys. Res.*, 105, 4857-4864, (2000).
  29. Mantis H.T., C.C. Repapis, C.M. Philandras, A.G. Paliatsos, C.Z. Zerefos, A.F. Bais, C. Meleti and D.S. Balis, A five year climatology of the solar erythemal UV in Athens, Greece, *Int. Journal of Climatology*, 20, 1237-1247, (2000)
  30. Zerefos C.S, D.S. Balis, C. Meleti, A.F. Bais, K. Tourpali, K. Vanicek, F. Cappellani, U. Kaminski, T. Colombo, R. Stubi, P. Formenti and M.O. Andreae, Surface UV Solar Irradiance and Total Ozone during the Solar Eclipse of 11 August 1999, *J. of Geophys. Res.*, 105, 26463-26473 (2000)
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#### **Δ. PARTICIPATION IN RESEARCH PROJECTS**

##### **As Principal Investigator**

1. PHOENICS - Particles of human origin extinguishing natural solar radiation in climate systems, funded by EU (DGXII) ,2002-2004
2. "Development of algorithms for retrieval of GOME total ozone column (TOGOMI)" funded by KNMI, 2003.
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4. "New ozone algorithm for GOME and reprocessing", funded by the German Aerospace Agency (DLR), 2004.
5. "Real-time total ozone mapping for the Northern Hemisphere in the frame of GAW", funded by GSRT, 2005-2007
6. «Protocol Monitoring for GMES (PROMOTE)», funded by KNMI , 2005-2006
7. "Upgrade of GOME data", funded by ESA through the German Aerospace Agency (DLR), 2006.
8. «European Aerosol Research Lidar Network (EARLINET ASOS)», funded by EU, FP6, 2006-2011
9. "Air quality monitoring and forecasting in China", funded by EU, FP6, 2007-2009
10. Protocol Monitoring for GMES-2 (PROMOTE Phase 2), funded by ESA through the German Aerospace Agency (DLR), 2007- 2009.
- 11.«GDP5.0 Upgrade of L1 and L2 του GOME data», funded by the European Space Agency through the German Aerospace Agency (DLR), 2007-2010.
- 12.«Advanced remote sensing techniques for monitoring and protecting forests", funded by GSRT, 2007-2008
- 13."Aerosols and clouds", funded by ESA, 2008-2010
- 14."Ozone-SAF-CDOP-1", funded by EUMETSAT, 2007-2012
15. "Space-based applications at the service of European Society -Preoperational validation of GMES services and products -Stimulating the development of downstream services (PASODOBLE)", funded by EU-FP7, 2010-2013.
- 16.«Building consolidated climate-relevant ozone data sets in the framework of the ESA's Climate Change Initiative (CCI)», funded by ESA, 2010-2013.
17. «Evaluation of level-3 satellite total ozone data", funded by ESA, 2011-2012.
- 18."Ozone-SAF-CDOP-2", funded by EUMETSAT, 2012-2017
- 19."Monitoring of Volcanic Ash-SACS-2", funded by ESA, 2012-2014.
- 20.«Educational material for GOME satellite», funded by ESA, 2014-2015
- 21.«Operational Forecast of Air Quality for Greece and Germany", funded by IKYDA 2014, 2014-2015
22. «MARCOPOLLO-Collaboration between China and Europe", funded by EU-FP7, 2014-2016.
- 23.«Building consolidated climate-relevant ozone data sets in the framework of the ESA's Climate Change Initiative (CCI)- Phase II», funded by ESA, 2014-2017.

### **As Researcher**

During the period 1991-2002 I participated as researcher in 28 research projects funded by National and European Agencies. During the period 2003-2016 I participated as researcher in the following projects:

1. "GOME assimilated and validated ozone and nitrogen dioxide fields for scientific users and for model validations", funded by EU- (DGXII) , 2001-2003

2. "Quantitative Understanding of Ozone losses by Bipolar Investigations". , funded by EU-(DGXII) , 2002-2004
3. «Advanced Techniques for Environmental Monitoring and Forecasting», funded by GSRT, 2004-2005.
4. PYTHAGORAS-«Environmental Impact of transported aerosols», funded by the Ministry of Education, 2004-2006
5. «Variability of solar UV under different aerosol conditions using ground-based and satellite observations», funded by GSRT, 2006-2008.
6. PENED-«Study of atmospheric transport processes of aerosols with the synergy of satellite, ground based observations and models», funded by GSRT, 2005-2008.
7. «Stratosphere-Climate Links With Emphasis On The UTLS-SCOUT-O3», funded by EU-FP6, 2004-2009
8. «Building Infrastructure for the validation of satellite derived atmospheric parameters (PHAETHON)», funded by ESA, 2009-2011.
9. «Aerosols, Clouds, and Trace gases Research Infrastructure Network» ACTRIS., funded by EU-FP7, 2011-2015 (associated partner)
- 10.«Quality Assurance for Essential Climatic Variables», funded by EU-FP7, 2014-2017.
- 11.«Aerosols, Clouds, and Trace gases Research Infrastructure Network-Phase II», funded by EU-H2020, 2015-2018 (associated partner).

## E. TEACHING EXPERIENCE

|            |                                                                                                                                                                                                                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1999-2001  | Course: "Field Measurements", MSc Program: "Environmental Physics"-AUTH                                                                                                                                                                                                                                                                              |
| 2001-2008: | Course: «Computer Applications for Environmental Sciences», MSc Program: "Environmental Physics"-AUTH<br>Courses: "Field Measurements I and II", MSc Program: "Environmental Physics"-AUTH                                                                                                                                                           |
| 2001-:     | Course: "Atmospheric Technology", Phys. Dept. AUTH, 8 <sup>th</sup> semester                                                                                                                                                                                                                                                                         |
| 2001-2015: | Course: "Atmospheric Physics", Phys. Dept. AUTH, 8 <sup>th</sup> semester                                                                                                                                                                                                                                                                            |
| 2001-:     | Course: "Environmental Impact Assessments", MSc Program: "Environmental Physics"-AUTH                                                                                                                                                                                                                                                                |
| 2002-:     | Course: «Introduction to Atmospheric Physics», Phys. Dept. AUTH, 3 <sup>rd</sup> semester                                                                                                                                                                                                                                                            |
| 2008-:     | Course: "Atmospheric Aerosols", MSc Program: "Environmental Physics"-AUTH<br>Course: "Environmental Management", MSc Program: "Environmental Physics"-AUTH<br>Course: «Atmospheric Measurement Techniques», MSc Program: "Environmental Physics"-AUTH<br>Course: "Analysis of Environmental Measurements", MSc Program: "Environmental Physics"-AUTH |
| 2016-:     | Course: "Global Change", Phys. Dept. AUTH, 8 <sup>th</sup> semester                                                                                                                                                                                                                                                                                  |

I have supervised more than 40 degree theses and about 30 master thesis

## **ΣΤ. SUPERVISION OF PHD THESES**

Supervisor of two completed PhD theses and supervisor of three on-going PhD theses.

Member of the supervising committee in 3 ongoing PhD theses.

Reviewer of 23 completed PhD theses in Greek Universities

Reviewer in 3 PhD theses of Universities abroad (University of Basilicata, Italy and University of Granada, Spain)

## **Z. LECTURE NOTES (In Greek)**

1. Μελάς Δ., Πασχαλίδης Σ., Μπαλής Δ., Μελέτη Χ. και Καραούζα Β., "Εργαστήρια Φυσικής Ατμοσφαιρικού Περιβάλλοντος", Σημειώσεις για το 1ο κρατικό ΙΕΚ Θεσσαλονίκης, τμήμα "Τεχνικοί ελέγχου εργασιακού και βιομηχανικού περιβάλλοντος"., 1994
2. Μελάς Δ., Κ. Ελευθεριάδης, Κ. Κουρτίδης και Δ. Μπαλής, Σημειώσεις του μαθήματος "Ρύπανση του αέρα", 1ο Κρατικό ΙΕΚ Θεσσαλονίκης, 73 σελ., 1996
3. Α. Μπάης, Δ. Μελάς, Δ. Μπαλής, Σημειώσεις του μαθήματος Ατμοσφαιρική Τεχνολογία, 8ο εξάμηνο, σ115, ΑΠΘ, 2003.
4. Δ. Μπαλής, Α. Μπάης, Σημειώσεις του μαθήματος Φυσική της Ατμόσφαιρας, 8ο εξάμηνο, σ143, ΑΠΘ, 2003
5. Α. Μπάης, Δ. Μελάς, Δ. Μπαλής, Ατμοσφαιρική Τεχνολογία, ΚΑΛΛΙΠΟΣ, 2016

## **H. LECTURES-SEMINARS-INVITED TALKS**

1. Balis D., «Ground-based and satellite monitoring of the environment», Vafopouleio Cultural Centre of the Municipality of Thessaloniki, Thessaloniki, 1998
2. Balis D., "Remote sensing of the atmosphere using the Lidar technique" An international seminar on current issues of astronomical and planetary environmental concern, British Council and AUTH, Thessaloniki, Greece, 6-7 April 1998
3. Balis D., "Ozone Evolution at mid and high latitudes, 5<sup>th</sup> European Symposium on Stratospheric Ozone, 27 Sep-1 Oct 1999, Saint Jean De Luz, France
4. Balis D., "Ozone monitoring and Research, 3<sup>rd</sup> Global Monitoring of the Environment and Security Forum, Athens, 5-6 June 2003
5. Balis D. "Evolution of the ozone extreme departures over the polar regions", International Geosphere Biosphere Program, Athens, 31-3-2004
6. Balis D. "Remote sensing techniques for environmental monitoring, PROTEPE-GSRT network, Thessaloniki, February 2004
7. Balis D. "Air Quality over the Balkans using satellite measurements", PROTIPA GSRT network, Goulandri Foundation, Athens, October 2008

8. Balis D., “The potential of satellites in air quality monitoring”, Προοπτικές για την παρακολούθηση της αέριας ρύπανσης από δορυφόρους, PROTIPA GSRT network, Prefecture of Thessaloniki, October 2008
9. Balis D., “Forest fire aerosols, Optical and microphysical observations from EARLINET observations, 1<sup>st</sup> GAW Aerosol Lidar Observation Network (GALION) Workshop, Geneva 20-9-2010

## **Θ. REVIEWER IN SCIENTIFIC JOURNALS**

20. Journal of Geophysical Research
21. Geophysical Research Letters
22. Atmospheric Chemistry and Physics
23. Atmospheric Measurement Techniques
24. Journal of Atmospheric and Solar-Terrestrial Physics
25. Atmospheric Research
26. Applied Optics
27. Annales Geophysicae
28. Atmospheric Environment
29. Atmospheric Research
30. Tellus
31. International Journal of Remote Sensing
32. Natural Hazards
33. Journal of Atmospheric and Oceanic Technology
34. Science of the Total Environment
35. Meteorology and Atmospheric Physics
36. Remote Sensing of the Environment
37. Water, Air and Soil Pollution
38. Lasers in Engineering

## **I. EVALUATION COMMITTEES**

1. Evaluator for « Global Change, Climate and Biodiversity under the Programme Energy, Environment and Sustainable Development,FP5
2. Evaluator for «Marie Curie Fellowships, Advanced Study Courses and René Descartes Prize within FP5»
3. Evaluator for the Research Committee of the University of Crete
4. Evaluator for the Academy of Sciences of the Czech Republic
5. Evaluator for the National Research Centre of Poland
6. Evaluator for the National Science Foundation, USA

## **IA. EXPERIMENTAL EXPERIENCE ΠΕΙΡΑΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ**

1. Measurements of the vertical distribution of aerosol and ozone with lidars
2. Measurements of the vertical distribution of ozone with ozonesondes
3. Trace gas monitoring with Differential Optical Absorption Spectroscopy (DOAS)
4. Meteorological measurements with a tethered balloon
5. Air pollution monitoring with conventional analyzers
6. Aerosol optical depth measurements with sun photometers (CIMEL)

## **IB. CONFERENCE-WORKSHOP ORGANIZATION**

1. Local Organizer of the SAF Ozone monitoring training workshop, Halkidiki, Greece, 21-23 May 2001,
2. Scientific Committee of the 20<sup>th</sup> Quadrennial Ozone Symposium, Kos, Greece, 1-8 June, 2004
3. Local Organizer of the EARLINET workshop, Thessaloniki, 2008
4. Scientific Committee of the Symposium for the 20<sup>th</sup> Anniversary of the Montreal Protocol, Athens, 23-26 September 2007
5. Local Organizer of the Ozone SAF User and algorithm Forum, Halkidiki, Greece, 2-4 June 2009
6. Co-Chair of the Organizing Committee of the 26<sup>th</sup> International Laser Radar Conference, Port-Heli, Greece, 2012.
7. Scientific Committee of the 22<sup>th</sup> Quadrennial Ozone Symposium, Toronto, Canada, 2012.
8. Scientific Committee of the ESA Living Planet Conference, Edinburgh, UK, 2013
9. Scientific Committee of the International Conference on Meteorology, Climatology and Atmospheric Physics, Heraklion, Greece, 2014
10. Scientific Committee of ESA Atmospheric Science, Conference, 2015
11. Scientific Committee of the ESA Living Planet Conference, Prague, Czech Republic 2016
12. Scientific Committee of the International Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece 2016

## **IF. HONORS**

2000: The publication Γ4.12 received the Mariolopoulos-Kanaginis Award of the World Meteorological Organization.

## **IA. INTERNATIONAL COLLABORATIONS**

In the frame of my research activities and research projects I have collaborated with the following institutes.

- Belgian Institute for Space Aeronomy (BIRA-IASB) (M. Van Roozendaal, J-C. Lambert)

- German Aerospace Center (DLR) (D. Loyola, P. Valks, M. Bittner, T. Ebertseder)
- Royal Netherlands Meteorological Institute (KNMI) (R. Van der A., H. Eskes, M. Kroon)
- University of Bremen (IUP) (A. Richter)
- University of Cambridge (UCAM) (N. Harris)
- Finnish Meteorological Institute (FMI) (J. Kujanpaa)
- Royal Meteorological Institute of Belgium (KMI-IRM) (H. de Backer, A. Delcloo)
- Danish Meteorological Institute (DMI)
- German Weather Service (DWD) (H. Claude, L. Kins, W. Thomas)
- World Meteorological Organization (WMO) (R. Bojkov, G. Braaten)
- National Aeronautics and Space Administration (NASA) (R. McPeters, G. Labow)
- Environment Canada (V. Fioletov)
- Max Planck Institute for Meteorology, Hamburg (S. Kinne)
- Institute for Tropospheric Research, Leipzig, Germany (A. Ansmann)
- University of Granada, Spain (L.A. Arboledas)
- Ludwig-Maximilians-Universität, Meteorological Institute, München, Germany (M. Wiegner)
- RIVM - National Institute for Public Health and the Environment, Netherlands (A. Apituley)
- Consiglio Nazionale delle Ricerche - Istituto di Metodologie per l'Analisi Ambientale (CNR-IMAA) (G. Pappalardo)
- National Institute of R&D for Optoelectronics, Romania (D. Nicolae)
- University Politecnica de Catalunya, Spain (Adolfo Cameron)
- Università Degli Studi dell'Aquila (V. Rizi)
- University of Oslo, Institute of Geophysics, (I. Isaksen)
- Norwegian Institute for Air Research (NILU), (G. Hansen)
- European Space Agency, ESRI, Frascati, Italy (C. Zehner)

**Citations per journal article (source: WOS, SCOPUS)**

| <b>Publication number</b> | <b>Citations in Scopus</b> | <b>Citations in WOS</b> | <b>Publication number</b> | <b>Citations in Scopus</b> | <b>Citations in WOS</b> |
|---------------------------|----------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>1</b>                  | -                          | 82                      | <b>42</b>                 | 40                         | 46                      |
| <b>2</b>                  | -                          | 8                       | <b>43</b>                 | 14                         | 17                      |
| <b>3</b>                  | 0                          | 0                       | <b>44</b>                 | 109                        | 101                     |
| <b>4</b>                  | 46                         | -                       | <b>45</b>                 | 58                         | 45                      |
| <b>5</b>                  | 18                         | 21                      | <b>46</b>                 | 86                         | 83                      |
| <b>6</b>                  | 51                         | 51                      | <b>47</b>                 | 153                        | 128                     |
| <b>7</b>                  | 8                          | 7                       | <b>48</b>                 | 37                         | 32                      |
| <b>8</b>                  | -                          | 71                      | <b>49</b>                 | 74                         | 64                      |
| <b>9</b>                  | 79                         | -                       | <b>50</b>                 | 94                         | 83                      |
| <b>10</b>                 | 6                          | -                       | <b>51</b>                 | 11                         | 11                      |
| <b>11</b>                 | 40                         | 41                      | <b>52</b>                 | 48                         | 42                      |
| <b>12</b>                 | 9                          | 10                      | <b>53</b>                 | 49                         | 49                      |
| <b>13</b>                 | 52                         | 51                      | <b>54</b>                 | 5                          | 6                       |
| <b>14</b>                 | 56                         | 55                      | <b>55</b>                 | 42                         | 40                      |
| <b>15</b>                 | 49                         | 51                      | <b>56</b>                 | 101                        | 111                     |
| <b>16</b>                 | 88                         | -                       | <b>57</b>                 | 7                          | 8                       |
| <b>17</b>                 | 0                          | 0                       | <b>58</b>                 | 15                         | 15                      |
| <b>18</b>                 | 18                         | 21                      | <b>59</b>                 | 3                          | -                       |
| <b>19</b>                 | 62                         | 60                      | <b>60</b>                 | 81                         | 78                      |
| <b>20</b>                 | 25                         | 22                      | <b>61</b>                 | 13                         | -                       |
| <b>21</b>                 | 41                         | 40                      | <b>62</b>                 | 62                         | 68                      |
| <b>22</b>                 | 65                         | 69                      | <b>63</b>                 | 30                         | 32                      |
| <b>23</b>                 | 29                         | 28                      | <b>64</b>                 | 25                         | 21                      |
| <b>24</b>                 | 6                          | 7                       | <b>65</b>                 | -                          | -                       |
| <b>25</b>                 | 36                         | 30                      | <b>66</b>                 | 5                          | -                       |
| <b>26</b>                 | 117                        | 108                     | <b>67</b>                 | 37                         | 42                      |
| <b>27</b>                 | 46                         | 47                      | <b>68</b>                 | 64                         | 58                      |
| <b>28</b>                 | 25                         | 24                      | <b>69</b>                 | 10                         | 10                      |
| <b>29</b>                 | 2                          | 9                       | <b>70</b>                 | 12                         | 10                      |
| <b>30</b>                 | 25                         | 27                      | <b>71</b>                 | 20                         | 15                      |
| <b>31</b>                 | 40                         | 43                      | <b>72</b>                 | 19                         | 26                      |
| <b>32</b>                 | 19                         | 15                      | <b>73</b>                 | 67                         | 82                      |
| <b>33</b>                 | 1                          | 1                       | <b>74</b>                 | 24                         | 24                      |
| <b>34</b>                 | 22                         | 21                      | <b>75</b>                 | -                          | 79                      |
| <b>35</b>                 | 15                         | 12                      | <b>76</b>                 | 29                         | 24                      |
| <b>36</b>                 | 41                         | 43                      | <b>77</b>                 | 122                        | 126                     |
| <b>37</b>                 | 5                          | 5                       | <b>78</b>                 | 26                         | 22                      |
| <b>38</b>                 | 25                         | 24                      | <b>79</b>                 | 22                         | 20                      |
| <b>39</b>                 | 27                         | 32                      | <b>80</b>                 | 10                         | 8                       |
| <b>40</b>                 | 43                         | 53                      | <b>81</b>                 | 48                         | 48                      |
| <b>41</b>                 | 8                          | 7                       | <b>82</b>                 | 27                         | -                       |

|            |     |     |            |     |     |
|------------|-----|-----|------------|-----|-----|
| <b>83</b>  | 4   | -   | <b>106</b> | 12  | 11  |
| <b>84</b>  | 19  | 18  | <b>107</b> | 3   | 3   |
| <b>85</b>  | 20  | 19  | <b>108</b> | 107 | 110 |
| <b>86</b>  | 33  | 31  | <b>109</b> | -   | -   |
| <b>87</b>  | 20  | 20  | <b>110</b> | 10  | 10  |
| <b>88</b>  | 7   | 6   | <b>111</b> | 1   | -   |
| <b>89</b>  | 70  | 67  | <b>112</b> | 7   | 4   |
| <b>90</b>  | 23  | 23  | <b>113</b> | 1   | -   |
| <b>91</b>  | 1   | -   | <b>114</b> | 1   | 1   |
| <b>92</b>  | 23  | 21  | <b>115</b> | 1   | -   |
| <b>93</b>  | 26  | 23  | <b>116</b> | 1   | 1   |
| <b>94</b>  | 1   | -   | <b>117</b> | 2   | 1   |
| <b>95</b>  | 34  | 32  | <b>118</b> | 1   | 1   |
| <b>96</b>  | 4   | 4   | <b>119</b> | -   | -   |
| <b>97</b>  | 14  | 14  | <b>120</b> | -   | -   |
| <b>98</b>  | 18  | 20  | <b>121</b> | -   | -   |
| <b>99</b>  | 269 | 257 | <b>122</b> | -   | -   |
| <b>100</b> | 1   | -   | <b>123</b> | -   | -   |
| <b>101</b> | 17  | 14  | <b>124</b> | -   | -   |
| <b>102</b> | 5   | 5   | <b>125</b> | -   | -   |
| <b>103</b> | 9   | 10  | <b>126</b> | -   | -   |
| <b>104</b> | 13  | 12  | <b>127</b> | -   | -   |
| <b>105</b> | 12  | 12  |            |     |     |

#### Web of Science, Thomson Reuters:

Total number of citations=**3654**, h index = **37**, without self-citations= **3339** (h=35)

#### SCOPUS:

Total number of citations =**3837**, h index = **37**, without self-citations = **3466**

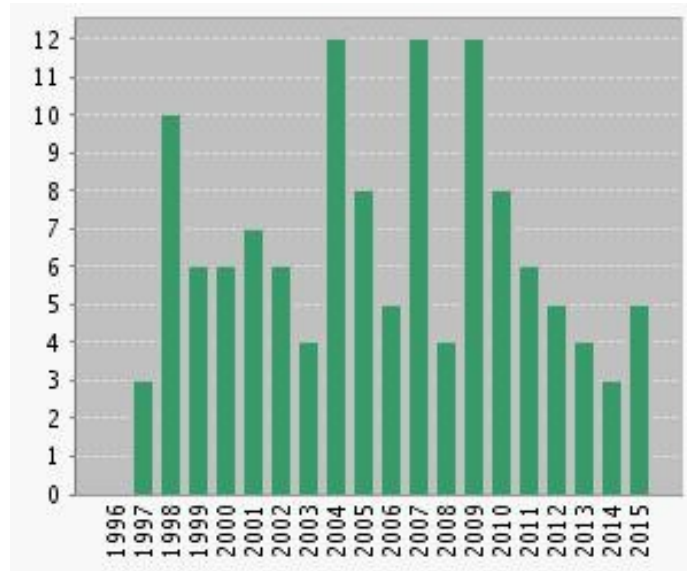
#### Google Scholar:

Total number of citations =**3923**, h index = **34**

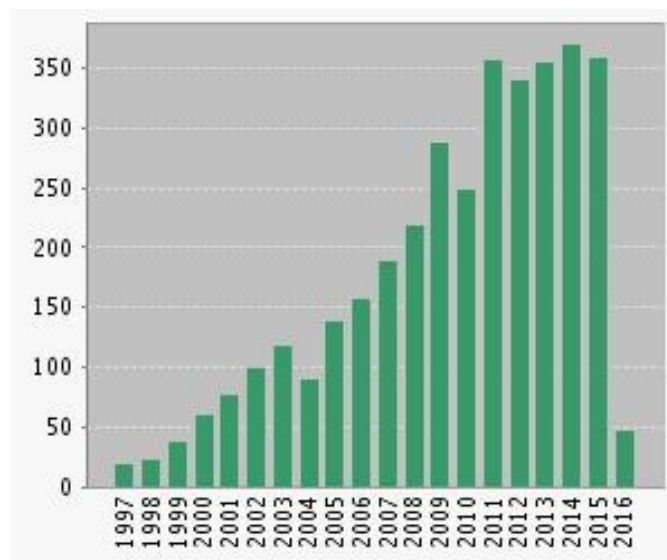
#### Research Gate:

Total number of citations =**4740**, h index = **41**, without self-citations: h=**38**,  
RG Score=**40.11**

**Publications in each year (last 20 years)**



**Citations in each year (last 20 years)**



Source: Web of Science, Thomson Reuters

**Number of publications per journal and related impact factors (Source: ISI Thomson)**

| <b>Journal</b>                                 | <b>No of publications</b> | <b>Impact Factor</b> |
|------------------------------------------------|---------------------------|----------------------|
| Journal of Geophysical Research                | 25                        | 3.43                 |
| Atmospheric Chemistry and Physics              | 20                        | 5.05                 |
| Atmospheric Environment                        | 20                        | 3.28                 |
| Geophysical Research Letters                   | 9                         | 4.19                 |
| Atmospheric Measurements and Techniques        | 9                         | 2.93                 |
| International Journal of Remote Sensing        | 6                         | 1.65                 |
| Annales Geophysicae                            | 4                         | 1.71                 |
| Atmospheric Research                           | 3                         | 2.84                 |
| Applied Optics                                 | 3                         | 1.78                 |
| Advances in Space Research                     | 3                         | 1.36                 |
| Journal of Atmospheric Chemistry               | 2                         | 1.95                 |
| Physics and Chemistry of the Earth             | 2                         | 1.48                 |
| Atmosphere Ocean                               | 2                         | 1.39                 |
| Remote Sensing of the Environment              | 1                         | 6.39                 |
| Astroparticle Physics                          | 1                         | 3.58                 |
| International Journal of Climatology           | 1                         | 3.16                 |
| Journal of the Atmospheric Sciences            | 1                         | 3.14                 |
| Photochemistry and Photobiology                | 1                         | 2.26                 |
| Journal of Aerosol Science                     | 1                         | 2.24                 |
| Tellus B                                       | 1                         | 2.15                 |
| Theoretical and Applied Climatology            | 1                         | 2.02                 |
| Experimental Astronomy                         | 1                         | 1.99                 |
| Journal of Solar and Terrestrial Physics       | 1                         | 1.75                 |
| Remote Sensing Letters                         | 1                         | 1.57                 |
| Meteorology and Atmospheric Physics            | 1                         | 1.05                 |
| Annals of Geophysics                           | 1                         | 1.04                 |
| Terrestrial Atmospheric and Oceanic Sciences   | 1                         | 0.71                 |
| Nuovo Cimento della Societa Italiana de Fisica | 1                         | 0.49                 |
| Geomagnetism and Aeronomia                     | 1                         | 0.49                 |
| Fresenius Environmental Bulletin               | 1                         | 0.34                 |
| Beitrage zur Physik der Atmosphaere            | 1                         | -                    |
| Optica Pura y Aplicada                         | 1                         | -                    |

**Weighted Impact Factor: 3.11**