

ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Ilias Fountoulakis



Λεωφ. Βασιλίσσης Σοφίας 79, 115 21, Αθήνα, Ελλάδα

+30 210 8832048 (int. 27)

ifountoulakis@Academyofathens.gr

Φύλο: Άρρεν | Ημερομηνία γέννησης: 11/07/1981 | Υπηκοότητα: Ελληνική, Αμερικανική
Έγγαμος, πατέρας δύο παιδιών

ΣΥΝΟΨΗ

Ο Ηλίας Φουντουλάκης (ΗΦ) σπούδασε στο Τμήμα Φυσικής του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης (ΑΠΘ), από όπου έλαβε το πτυχίο του το 2008. Το 2011 απέκτησε μεταπτυχιακό δίπλωμα στη Φυσική Περιβάλλοντος από το ίδιο Τμήμα. Το 2016 ολοκλήρωσε τη διδακτορική του διατριβή στην Ατμοσφαιρική Φυσική στο Εργαστήριο Φυσικής της Ατμόσφαιρας του ΑΠΘ. Τα κύρια επιστημονικά του ενδιαφέροντα είναι:

- Ηλιακή υπεριώδης ακτινοβολία και στρατοσφαιρικό όζον
- Ηλιακή ακτινοβολία και ηλιακή ενέργεια
- Επίγειες και δορυφορικές μέθοδοι τηλεπισκόπησης της ατμοσφαιρικής σύστασης
- Επίδρασεις των αερολυμάτων στην ηλιακή και γήινη ακτινοβολία

Από το 2010 έως το 2017 εργάστηκε ως ερευνητής στο Εργαστήριο Φυσικής της Ατμόσφαιρας του ΑΠΘ: ως μεταπτυχιακός φοιτητής την περίοδο 2010–2011, ως υποψήφιος διδάκτορας την περίοδο 2012–2016 και ως μεταδιδακτορικός ερευνητής το 2017. Η έρευνά του επικεντρώθηκε κυρίως στις μετρήσεις και την κλιματολογική ανάλυση της επιφανειακής ηλιακής υπεριώδους (UV) ακτινοβολίας και των ατμοσφαιρικών παραμέτρων που την επηρεάζουν, όπως το στρατοσφαιρικό όζον, τα αερολύματα και τα νέφη. Από τον Σεπτέμβριο έως τον Δεκέμβριο του 2017 εργάστηκε για σύντομο διάστημα στο Ατμοσφαιρικό Παρατηρητήριο της Izaña στην Τενερίφη της Ισπανίας και συνέβαλε στη σύνταξη της διαδικτυακής τεκμηρίωσης του Ευρωπαϊκού Δικτύου Brewer (EUBREWNET).

Από το 2018 έως το 2020 εργάστηκε ως ερευνητής στην Περιφερειακή Υπηρεσία Προστασίας Περιβάλλοντος της Κοιλάδας της Αόστα στην Ιταλία (ARPA VdA). Εκεί οργάνωσε και έθεσε σε λειτουργία ένα νέο οπτικό εργαστήριο, ενώ η έρευνά του επικεντρώθηκε και πάλι στις μετρήσεις και την κλιματολογική ανάλυση της επιφανειακής ηλιακής UV ακτινοβολίας. Κατά την περίοδο 2018–2019 συνέχισε επίσης τη στενή συνεργασία με το Εργαστήριο Φυσικής της Ατμόσφαιρας του ΑΠΘ, συμβάλλοντας στην έρευνα για την ανάκτηση και την κλιματολογική ανάλυση των οπτικών ιδιοτήτων των αερολυμάτων στην υπεριώδη περιοχή.

Από το 2020 έως το 2024 εργάστηκε ως ερευνητικός συνεργάτης στο Ινστιτούτο Αστρονομίας, Αστροφυσικής, Διαστημικών Εφαρμογών και Τηλεπισκόπησης (ΙΑΔΕΤ) του Εθνικού Αστεροσκοπείου Αθηνών (ΕΑΑ). Η έρευνά του επικεντρώθηκε στις μετρήσεις, τη μοντελοποίηση και την κλιματολογική ανάλυση της ηλιακής ακτινοβολίας και ενέργειας στην Ευρώπη και την ευρύτερη περιοχή της Ανατολικής Μεσογείου.

Από τον Ιανουάριο του 2023 ο ΗΦ είναι εντεταλμένος ερευνητής στο Κέντρο Ερεύνης Φυσικής της Ατμόσφαιρας και Κλιματολογίας της Ακαδημίας Αθηνών (ΚΕΦΑΚ). Στο ΚΕΦΑΚ η έρευνά του εστιάζει στην υπεριώδη ηλιακή ακτινοβολία και το στρατοσφαιρικό όζον, τις οπτικές ιδιότητες των αερολυμάτων και την επίδρασή τους στο ενεργειακό ισοζύγιο της Γης, την ηλιακή ενέργεια, και την παρακολούθηση γήινων και ατμοσφαιρικών παραμέτρων για την προσαρμογή στην κλιματική αλλαγή.

Το 2017 συνδιοργάνωσε και δίδαξε μάθημα υπολογιστικών μεθόδων για τις περιβαλλοντικές επιστήμες στο μεταπτυχιακό πρόγραμμα «Φυσική Περιβάλλοντος» του ΑΠΘ. Από τον Οκτώβριο

του 2021 έως τον Σεπτέμβριο του 2022 δίδαξε στο Τμήμα Μηχανικών Περιβάλλοντος του Πανεπιστημίου Πατρών μαθήματα σχετικά με τη φυσική της ατμόσφαιρας, την ατμοσφαιρική ρύπανση και το παγκόσμιο κλίμα. Σήμερα είναι μέλος της τριμελούς συμβουλευτικής επιτροπής δύο διδακτορικών διατριβών (κύριος επιβλέπων στη μία). Από τον Ιανουάριο του 2024 είναι μέλος της ακαδημαϊκής επιτροπής του διεπιστημονικού μεταπτυχιακού προγράμματος «Προστασία της Πολιτιστικής Κληρονομιάς και των Μνημείων της Φύσης από τις Επιπτώσεις της Κλιματικής Αλλαγής» του Ελληνικού Ανοικτού Πανεπιστημίου.

Ο ΗΦ (Scopus Author ID: 56568211800) έχει συνυπογράψει 52 άρθρα σε επιστημονικά περιοδικά με κριτές, στα 14 από τα οποία είναι πρώτος συγγραφέας. Τα άρθρα έχουν λάβει τουλάχιστον 1000 αναφορές (h-index = 22). Τουλάχιστον πέντε από αυτά έχουν δημοσιευθεί σε περιοδικά με συντελεστή απήχησης μεγαλύτερο από 10. Έχει επίσης συνυπογράψει περισσότερες από 200 περιλήψεις που έχουν δημοσιευθεί σε πρακτικά εθνικών και διεθνών συνεδρίων.

Από το 2010 έχει συμμετάσχει σε 25 εθνικά και διεθνή ερευνητικά έργα. Έχει επίσης συμμετάσχει σε εκστρατείες μετρήσεων πεδίου για τη φασματική ηλιακή UV ακτινοβολία και/ή το ολικό όζον, σε διεθνή θερινά σχολεία και σε δύο βραχυχρόνιες επιστημονικές αποστολές. Έχει διατελέσει ενεργός κριτής σε περισσότερα από 35 επιστημονικά περιοδικά.

ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

01/2023 – present Φορέας	Ερευνητής Γ΄ βαθμίδας Κέντρο Ερέυνης Φυσικής της Ατμόσφαιρας και Κλιματολογίας, Ακαδημία Αθηνών, Ελλάδα
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Μελέτη της μεταβλητότητας της ηλιακής UV ακτινοβολίας και του στρατοσφαιρικού όζοντος ▪ Μελέτη της μεταβλητότητας της ηλιακής ακτινοβολίας και της ηλιακής ενέργειας ▪ Μελέτη των οπτικών ιδιοτήτων των αερολυμάτων και των ακτινοβολιακών τους επιδράσεων ▪ Παρακολούθηση ατμοσφαιρικών και εδαφικών παραμέτρων για την προσαρμογή στην κλιματική αλλαγή
11/2020 – 12/2024 Φορέας	Ερευνητικός συνεργάτης Ινστιτούτο Αστρονομίας, Αστροφυσικής, Διαστημικών Εφαρμογών και Τηλεπισκόπησης, Εθνικό Αστεροσκοπείο Αθηνών, Ελλάδα
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Κλιματολογική ανάλυση της UV και της ολικής ηλιακής ακτινοβολίας και της ηλιακής ενέργειας στην Ευρώπη και την ευρύτερη περιοχή της Ανατολικής Μεσογείου ▪ Πρόγνωση της ηλιακής ακτινοβολίας και ενέργειας με χρήση δεδομένων παρατήρησης της Γης ▪ Μοντελοποίηση μεταφοράς ακτινοβολίας για εφαρμογές ηλιακής ενέργειας
10/2021 – 09/2022 Φορέας	Εντεταλμένος διδάσκων Τμήμα Μηχανικών Περιβάλλοντος, Πανεπιστήμιο Πατρών, Αγρίνιο, Ελλάδα
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Διδασκαλία προπτυχιακών μαθημάτων Φυσικής της Ατμόσφαιρας, Ατμοσφαιρικής Ρύπανσης και Παγκόσμιου Κλίματος
01/2018 – 11/2020 Φορέας	Μεταδιδακτορικός ερευνητικός συνεργάτης Regional Environmental Protection Agency (ARPA) Valle d' Aosta, Saint Christophe, Aosta, Italy
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Μελέτη της μεταβλητότητας της UV ακτινοβολίας στην Ιταλία σε σχέση με τις τοπικές μετεωρολογικές και κλιματικές συνθήκες, το στρατοσφαιρικό όζον και την ποιότητα του αέρα ▪ Εγκατάσταση και θέση σε λειτουργία νέου οπτικού εργαστηρίου ▪ Calibration and characterization of a Bentham spectroradiometer for solar UV and visible (VIS) radiation monitoring ▪ Διασφάλιση και έλεγχος ποιότητας (QA/QC) φασματικών και ευρυζωνικών ραδιομετρικών μετρήσεων στις περιοχές UV και VIS ▪ Ανάπτυξη λογισμικού για την ανάλυση και αποθήκευση δεδομένων, κυρίως με Python και MATLAB
09/2017 – 12/2017 Φορέας	Μεταδιδακτορικός ερευνητικός συνεργάτης Izaña Atmospheric Observatory, Canary Islands, Tenerife, Spain
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Τεκμηρίωση της βάσης δεδομένων EUBREWNET ▪ Ανάπτυξη επιστημονικού λογισμικού για τη βάση δεδομένων EUBREWNET
01/2017 – 09/2019 Φορέας	Μεταδιδακτορικός ερευνητικός συνεργάτης Εργαστήριο Φυσικής της Ατμόσφαιρας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Ελλάδα
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Κλιματολογική ανάλυση των οπτικών ιδιοτήτων των αερολυμάτων στις περιοχές UV και VIS στη Θεσσαλονίκη ▪ Συντήρηση και βαθμονόμηση φασματοφωτομέτρων και ευρυζωνικών ραδιομέτρων για την παρακολούθηση της ηλιακής ακτινοβολίας και της ατμοσφαιρικής σύστασης ▪ Βελτιστοποίηση αλγορίθμων ανάκτησης των οπτικών ιδιοτήτων των αερολυμάτων στην UV περιοχή

01/2012 – 11/2016 Φορέας	Υποψήφιος διδάκτορας / ερευνητικός συνεργάτης Εργαστήριο Φυσικής της Ατμόσφαιρας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Ελλάδα
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Κλιματολογική μελέτη της φασματικής ηλιακής UV ακτινοβολίας και των βιολογικά ενεργών δόσεων UV σε περιφερειακή και παγκόσμια κλίμακα, με χρήση επίγειων μετρήσεων, προβολών κλιματικών μοντέλων και προσομοιώσεων μοντέλων μεταφοράς ακτινοβολίας ▪ Βαθμονόμηση και συντήρηση δύο φασματοραδιομέτρων Brewer ▪ Διασφάλιση και έλεγχος ποιότητας μετρήσεων της ηλιακής UV ακτινοβολίας και του ολικού όζοντος στήλης ▪ Συμμετοχή στην επικύρωση δορυφορικών προϊόντων, όπως το ολικό όζον και η ηλιακή UV ακτινοβολία ▪ Συμμετοχή στην εγκατάσταση, βαθμονόμηση και συντήρηση πυρανομέτρων και ραδιομέτρων σε σταθμούς των δικτύων UVNET (Εθνικό Δίκτυο Παρακολούθησης UV της Ελλάδας) και ΕΔΗΕ (Ελληνικό Δίκτυο Ηλιακής Ενέργειας)
04/2010 – 12/2011 Φορέας	Μεταπτυχιακός ερευνητικός συνεργάτης Εργαστήριο Φυσικής της Ατμόσφαιρας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Thessaloniki, Greece
Κύρια καθήκοντα	<ul style="list-style-type: none"> ▪ Βαθμονόμηση και συντήρηση των δύο φασματοραδιομέτρων Brewer που λειτουργούν στο Εργαστήριο Φυσικής της Ατμόσφαιρας του ΑΠΘ (LAP-AUTH). ▪ Διασφάλιση και έλεγχος ποιότητας (QA/QC) των μετρήσεων φασματικής υπεριώδους ακτινοβολίας, τόσο της ολικής όσο και της άμεσης, από τα φασματοραδιομέτρα Brewer. ▪ Συμμετοχή στην εγκατάσταση, βαθμονόμηση και συντήρηση πυρανομέτρων και ραδιομέτρων σε διάφορους σταθμούς των δικτύων UVNET και EDHE.

ΣΠΟΥΔΕΣ

01/2012 – 01/2017 Ίδρυμα Αντικείμενο Βαθμός	Διδακτορικό στη Φυσική (Ατμοσφαιρική Φυσική) Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Ελλάδα) Μακροχρόνιες τάσεις της φασματικής ηλιακής υπεριώδους ακτινοβολίας 100%	EQF level 8
09/2009 – 10/2011 Ίδρυμα Βαθμός	Μεταπτυχιακό δίπλωμα στη Φυσική Περιβάλλοντος Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Ελλάδα) 96.0%	EQF level 6
09/2001 – 07/2008 Ίδρυμα Βαθμός	Πτυχίο Φυσικής Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Ελλάδα) 78.4%	EQF level 5

ΞΕΝΕΣ ΓΛΩΣΣΕΣ

Μητρική γλώσσα Ελληνικά

Άλλες γλώσσες

ΚΑΤΑΝΟΗΣΗ		ΟΜΙΛΙΑ		ΓΡΑΠΤΟΣ ΛΟΓΟΣ
Κατανόηση	Κατανόηση γραπτού	Προφορική	Παραγωγή	

	προφορικού λόγου	λόγου	επικοινωνία	προφορικού λόγου	
Αγγλικά	B2	B2	B2	B2	B2
First Certificate in English του Πανεπιστημίου του Cambridge					
Ιταλικά	A2	A2	A2	A1	A1

Επίπεδα: A1/A2: Βασικός χρήστης – B1/B2: Ανεξάρτητος χρήστης – C1/C2: Έμπειρος χρήστης
Κοινό Ευρωπαϊκό Πλαίσιο Αναφοράς για τις Γλώσσες

ΔΗΜΟΣΙΕΥΣΕΙΣ

Δημοσιεύσεις σε επιστημονικά περιοδικά με κριτές

Έχει συνυπογράψει 52 επιστημονικά άρθρα σε περιοδικά με κριτές, στα 14 από τα οποία είναι πρώτος συγγραφέας. Αναλυτικός κατάλογος δημοσιεύσεων παρατίθεται στο Παράρτημα I.

Ανακοινώσεις σε συνέδρια

Έχει συνυπογράψει 36 εργασίες και 138 περιλήψεις που έχουν δημοσιευθεί σε πρακτικά εθνικών και διεθνών συνεδρίων. Αναλυτικοί κατάλογοι των εργασιών και των ανακοινώσεων παρατίθενται στα Παράρτηματα II και III, αντίστοιχα.

Προσκεκλημένες ομιλίες

- Fountoulakis I., «Decoding the sunset», café-NEO co-organized by the Πανεπιστήμιο Πατρών and the Navarino Environmental Observatory, Patras, 25 May 2026
- Fountoulakis I., «Decoding the solar spectrum using models and measurements», Career Days of the MSc Program «Environmental Physics and Global Climate Change» of the Physics department of Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 20 May 2026
- **Fountoulakis I.**, UV climatologies, Harmonia-COST WG3 meeting, Limassol, Cyprus, 16-17 June 2025
- **Fountoulakis I.**, Investigating the radiative effects of dust over the Mediterranean Basin in the context of the "Sky over Berlin" Harmonia school, Harmonia MC/WG meeting, Sarajevo, Bosnia and Herzegovina, 25-26 February 2025
- Fountoulakis I., Measurements and simulations of solar radiation: Research applications for climate, energy, and health, Research Seminars of the Physics Department of the Πανεπιστήμιο Πατρών, 26.11.2024
- **Fountoulakis I.**, Long-term variability of human health-related solar ultraviolet-B radiation doses from the 1980s to the end of the 21st century, IAMAS Early Career Scientist webinars, 30.11.2023
- **Fountoulakis I.**, and H. Diémoz: Monitoring of spectral UV irradiance in Aosta, Saint-Christophe, Italy: from measurements to data analysis. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019

Διπλωματικές και διδακτορική διατριβή

- **I. Fountoulakis**: “Long term trends of the spectral solar UV radiation” PhD Thesis, University of Thessaloniki, Physics Department, (2016)
- **I. Fountoulakis**: “Evaluation of the operation and the optical characteristics of the spectrophotometer Brewer with serial number 86” MSc Thesis, University of Thessaloniki, Physics Department, (2011)
- **I. Fountoulakis**: “Development and application of methodology for the use of the YES-UVB-1 actinometer as an instrument for the measurement of the UVB irradiance” BA degree Thesis, University of Thessaloniki, Physics Department, (2008)

Διεθνείς επιστημονικές εκθέσεις

- Quaas, J., Sovacool, B., Cantoni, R., Chiodo, G., Corry, O., **Fountoulakis, I.**, Geden, O., Grasso, M., Gupta, A., Heyward, C., Korhonen, H., Lohmann, U., Michaelowa, A., Oschlies, A., Rabitz, F., Russchenberg, H., Storelvmo, T., Sulyok, K., Tavoni, M., Tilmes, S.: **Scientific Advice Mechanism to the European Commission. (2024). Solar radiation modification: evidence review report (1.0).** SAPEA. <https://doi.org/10.5281/zenodo.14283096>

Άλλα έγγραφα

- **I. Fountoulakis** and C. Zerefos: **Uncertainties in Future Surface UV-B Doses in a Climatically Disturbed World: Chapter in book: 35th Anniversary Protecting the Ozone Layer**, UNEP, December, 2022
- <http://rbcce.aemet.es/dokuwiki/doku.php> (co-author of the online documentation of EUBREWNET)

Αναφορές

Scopus (Author ID: 56568211800): >1000 αναφορές (>750 χωρίς τις αυτοαναφορές), h-index = 22

ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ

Διδασκαλία μαθημάτων

- Κατά το ακαδημαϊκό έτος 2021–2022 διδασκε στο Τμήμα Μηχανικών Περιβάλλοντος του Πανεπιστημίου Πατρών. Ήταν υπεύθυνος για την προετοιμασία και διδασκαλία τριών προπτυχιακών μαθημάτων: «Φυσική της Ατμόσφαιρας», «Ατμοσφαιρική Ρύπανση» και «Φαινόμενο του Θερμοκηπίου και Κλιματικές Αλλαγές».
- Συνδιδασκαλία του μαθήματος «Υπολογιστικά Εργαλεία για την Περιβαλλοντική Έρευνα» στο μεταπτυχιακό πρόγραμμα «Φυσική Περιβάλλοντος» του ΑΠΘ (2017), με αντικείμενο την εισαγωγή στη χρήση του MATLAB για την ανάλυση και επεξεργασία επιστημονικών δεδομένων.
- Βοηθός διδασκαλίας στο μάθημα «Ατμοσφαιρική Τεχνολογία» του προπτυχιακού προγράμματος του Τμήματος Φυσικής του ΑΠΘ (2013–2015). Κύριο αντικείμενό του ήταν η παρουσίαση της μεθοδολογίας βαθμονόμησης ραδιομετρικών οργάνων για τη μέτρηση της ηλιακής ακτινοβολίας.
- Βοηθός διδασκαλίας στο μάθημα «Βασικές Αρχές Αστρονομίας» του προπτυχιακού προγράμματος του Τμήματος Φυσικής του ΑΠΘ (2006). Καθήκοντά του ήταν η υποστήριξη των φοιτητών και η διόρθωση και βαθμολόγηση ασκήσεων.

Επίβλεψη προπτυχιακών και μεταπτυχιακών εργασιών

- Συνεπίβλεψη της προπτυχιακής εργασίας της Μάιρα Παναγιωτάκη (Πανεπιστήμιο Πατρών). Title: «Investigating the variability and trends of solar power potential in Europe and North Africa using BSRN, CAMS, and MERRA-2 data», 2025 - 2026

Επίβλεψη φοιτητών σε πρακτική άσκηση

- Διερεύνηση του δυναμικού ηλιακής ηλεκτροπαραγωγής στην Ευρώπη με χρήση κλιματικών δεδομένων (Μαρία Παναγιωτάκη, Πανεπιστήμιο Πατρών, 2025).
- Ανάλυση των ενεργών δόσεων UV για την παραγωγή βιταμίνης D στο ανθρώπινο δέρμα (Θωμάς Πατάζογλου, Πανεπιστήμιο Θεσσαλίας, 2025).

Επίβλεψη διδακτορικών διατριβών

- Μέλος της τριμελούς συμβουλευτικής επιτροπής της διδακτορικής διατριβής της Θεοδώρας Σταύρακα (ΕΚΠΑ) με τίτλο: “Solar radiation Impacts on human health over Greece. Challenges and mitigation strategies in the era of climate change.”, 2025 – σε εξέλιξη
- Επίβλεψη της διδακτορικής διατριβής του Νικόλαος Παπαδημητρίου (Πανεπιστήμιο Πατρών) με τίτλο: “Measurements and modelling of the surface solar radiation: Applications in energy, health, and atmospheric composition monitoring”, 2023 – σε εξέλιξη

ΘΕΣΕΙΣ ΕΥΘΥΝΗΣ

Ελληνικό Ανοικτό Πανεπιστήμιο

Μέλος της Ακαδημαϊκής Επιτροπής του διεπιστημονικού μεταπτυχιακού προγράμματος «Προστασία της Πολιτιστικής Κληρονομιάς και των Μνημείων της Φύσης από τις Επιπτώσεις της Κλιματικής Αλλαγής» (2023–σήμερα)

Ευρωπαϊκός Μηχανισμός Επιστημονικών Συμβουλών

Μέλος της Ομάδας Εργασίας του SAPEA (Science Advice for Policy by European Academies) για την τροποποίηση της ηλιακής ακτινοβολίας (Solar Radiation Modification, SRM), στο πλαίσιο υποστήριξης του Ευρωπαϊκού Μηχανισμού Επιστημονικών Συμβουλών (SAM) (2023–2024)

International Science Council	Μέλος του παγκόσμιου μητρώου εμπειρογνομόνων του International Science Council (2024–σήμερα)
ΠΡΟΣΘΕΤΕΣ ΠΛΗΡΟΦΟΡΙΕΣ	
Κριτής σε επιστημονικά περιοδικά	Έχει διατελέσει κριτής σε 36 επιστημονικά περιοδικά (αναλυτικός κατάλογος των περιοδικών και των εκδότων τους παρατίθεται στο Παράρτημα IV).
Συντακτική και συμβουλευτική δραστηριότητα σε περιοδικά	<ul style="list-style-type: none"> Προσκεκλημένος επιμελητής του διαθεματικού ειδικού τεύχους των περιοδικών AMT/ACP της Copernicus Publications με τίτλο “Sun-photometric measurements of aerosols: harmonization, comparisons, synergies, effects, and applications” Μέλος της συμβουλευτικής επιτροπής του Preprints.org Μέλος της θεματικής συμβουλευτικής επιτροπής του περιοδικού Atmosphere (MDPI)
Κριτής διδακτορικής διατριβής	“Development of a novel sunphotometer for aerosol and dust characterization in the atmosphere”, Thesis of Agostino Tettamanti, Università Degli Studi di Milano, Dipartimento di Fisica, supervisor: : Prof. Marco Alberto Carlo Potenza, 2019, (link: https://air.unimi.it/handle/2434/694406)
Αξιολογητής ερευνητικών προτάσεων	<ul style="list-style-type: none"> Αξιολογητής ερευνητικών προτάσεων για το Horizon Europe Αξιολογητής ερευνητικών προτάσεων για το Ίδρυμα Κρατικών Υποτροφιών (IKY) Αξιολογητής ερευνητικών προτάσεων για το Ερευνητικό Συμβούλιο της Εσθονίας Αξιολογητής ερευνητικών προτάσεων για το Arctic Research Council Αξιολογητής ερευνητικών προτάσεων για το Research Council (TRC) του Σουλτανάτου του Ομάν
Διοργάνωση συναντήσεων και συνεδρίων	<ul style="list-style-type: none"> COST-Action HARMONIA Core Group meeting, Ακαδημία Αθηνών, Greece, 14 October 2024 COST-Action HARMONIA meeting με τίτλο: “Maximizing aerosol measurement use from ground based photometers”, Ακαδημία Αθηνών, Greece, 18 - 19 September 2023
Εκστρατείες μετρήσεων πεδίου	<ul style="list-style-type: none"> THE 20th INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE, “El Arenosillo” Atmospheric Sounding Station, INTA (Huelva, Spain) June 16th to 28th, 2025 THE 14th INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 28, 2019 THE XII INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAIGN - ATMOZ (Traceability of Atmospheric Total Ozone) Field demonstration campaign, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, May 29 – June 07, 2017 THE X INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAIGN, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, May 27 – June 05, 2015
Διεθνή σχολεία (ως εκπαιδευόμενος)	<ul style="list-style-type: none"> 17th WMO-GAW BREWER OPERATOR COURSE, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 21, 2019 14th WMO-GAW BREWER USERS GROUP MEETING, EUBREWNET & WMO GAW BREWER OPERATOR COURSE, State Meteorological Agency of Spain, Santa Cruz de Tenerife, Spain, 24th – 28th March 2014

Διεθνή σχολεία (ως εκπαιδευτής)

- Sky over Berlin, aerosol measurements workshop in the context of the EU Cost Action HARMONIA, Berlin, Lindenberg, Germany, April 8 -10, 2024

Διακρίσεις και βραβεία

- Co-author in the paper that gained the best Paper Award in the Special Session “Urban Climate Systems: Drivers, Impact and Response Strategies” at the 5th Mediterranean Geosciences Union (MedGU) meeting, that took place in Athens, Greece (10–12 November 2025)
- Co-author in the paper that gained the best Paper Award in the Session “ Environmental Earth Sciences” at the 4th Mediterranean Geosciences Union (MedGU) meeting, that took place in Barcelona, Spain (25–28 November 2024)
- Travelling grant for the participation at the conference of the Italian Regional Environmental Protection Agencies “VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019” as an invited speaker.
- IUGG travelling grant for the participation in 26th General Assembly of the International Union of Geodesy and Geophysics (IUGG), held in Prague, Czech Republic, June 22 – July 2, 2015.
- COST ACTION ES1207 travelling grant for the Short-Term Scientific Mission: “Correction of the Brewer measurements for the dead time effect” (COST-STSM-ES1207-21218), (September 28 – October 8, 2014)

Μέλη επιστημονικών ενώσεων

- Μέλος της European Geosciences Union (EGU) (2016–σήμερα)
- Μέλος της European Meteorological Society (EMS) (2024–σήμερα)
- Τακτικό μέλος της Sigma Xi, The Scientific Research Honor Society (2026–σήμερα)
- Μέλος της Ελληνικής Μετεωρολογικής Εταιρείας (EMTE) (2025–σήμερα)
- Μέλος της Ένωσης Ελλήνων Φυσικών (ΕΕΦ) (2025–σήμερα)

Ερευνητικά έργα

Έχει εργαστεί ως ερευνητής σε 27 εθνικά και διεθνή έργα (25 συμβασιολογημένα έργα και 2 δράσεις COST). Σε αυτά έχει αναλάβει ρόλο επικεφαλής Πακέτου Εργασίας (WP) σε 2 έργα, συν-επικεφαλής Ομάδας Εργασίας (WG) σε 1 δράση και Επιστημονικού Υπευθύνου (PI) σε 1 έργο. Αναλυτικός κατάλογος των έργων και του αντικειμένου εργασίας του παρατίθεται στο Παράρτημα V.

Annex I - List of peer reviewed papers

2026

- J1. Papadimitriou, N., **Fountoulakis, I.**, Gkikas, A., Papachristopoulou, K., Kazantzidis, A., Kazadzis, S., Pfenninger, S., Kapsomenakis, J., Eleftheratos, K., Argiriou, A. A., Doppler, L., and Zerefos, C. S.: **PV power modelling using solar radiation from ground-based measurements and CAMS: Assessing the diffuse component related uncertainties leveraging the Global Solar Energy Estimator (GSEE)**, Atmos. Meas. Tech., 19, 1227–1244, <https://doi.org/10.5194/amt-19-1227-2026>, 2026.
- J2. Gidarakou, M., Papayannis, A., Mylonaki, M., Kralli, E., Eleftheratos, K., **Fountoulakis, I.**, Zografou, O., Diapouli, E., Gini, M. I., Vratolis, S., Granakis, K., Eleftheriadis, K., Evangeliou, N., Groot Zwaafink, C., Giagka, E., Zagklis, M.-A., and Veselovskii, I.: **Exceptional wildfire smoke over Greece in summer 2023: a synergistic study of aerosol optical-microphysical and UVB radiative impacts**, Atmos. Chem. Phys., 26, 4313–4339, <https://doi.org/10.5194/acp-26-4313-2026>, 2026.

2025

- J3. Spyrou, C., **Fountoulakis, I.**, Solomos, S., Papadimitriou, N., Bais, A., Gröbner, J., Meloni, D., and Zerefos, C.: **Implications of dust minerals on radiative transfer at regional scale, using the METAL-WRF model**, Atmos. Meas. Tech., 18, 7717–7734, <https://doi.org/10.5194/amt-18-7717-2025>, 2025.
- J4. Proestakis, E., Papachristopoulou, K., Georgiou, T., Chatoutsidou, S. E., Lazaridis, M., Gkikas, A., **Fountoulakis, I.**, Tsikoudi, I., Petrakis, M. P., and Amiridis, V.: **Atmospheric dust and air quality over large-cities and megacities of the world**, Atmos. Chem. Phys., 25, 14777–14823, <https://doi.org/10.5194/acp-25-14777-2025>, 2025.
- J5. **Fountoulakis, I.**, Papachristopoulou, K., Kazadzis, S., Hülsen, G., Gröbner, J., Raptis, I.-P., Kouklaki, D., Masoom, A., Kouremeti, N., Kontoes, C., and Zerefos, C. S.: **Assessment of the accuracy in UV index modelling using the UVIOS2 system during the UVC-III campaign**, Geosci. Model Dev., 18, 7451–7473, <https://doi.org/10.5194/gmd-18-7451-2025>, 2025.
- J6. Hou, X., **Fountoulakis, I.**, Blanc, P., Aebi, C., Kazadzis, S.: «**Intrahour solar radiation forecasting based on sun visibility for different cloud types**», Solar Energy, 294, 113477, <https://doi.org/10.1016/j.solener.2025.113477>, 2025.
- J7. Kazadzis, S., **Fountoulakis, I.**, Damialis, A., Masoom, A., Papachristopoulou, K., Gilles, S., Coen, M.C., Tummon, F., Crouzy, B., Clot, B., Pat, Y., Brüggem, M.-C., Nyeki, S., Raptis, I.-P., Solomos, S., Gkikas, A., Moustaka, A., Kouremeti, N., Akdis, C.A.: «**Aerosol Measurements and Decadal Changes: The Role of Climatic Changes and How It Reflects in Respiratory Allergies and Asthma**», Allergy: European Journal of Allergy and Clinical Immunology, 80 (6), pp. 1613–1628. <https://doi.org/10.1111/all.16602>, 2025.

2024

- J8. Amiridis, V.; Kazadzis, S.; Gkikas, A.; Voudouri, K.A.; Kouklaki, D.; Koukouli, M.-E.; Garane, K.; Georgoulas, A.K.; Solomos, S.; Varlas, G.; et al. **Natural Aerosols, Gaseous Precursors and Their Impacts in Greece: A Review from the Remote Sensing Perspective**. Atmosphere, 15, 753. <https://doi.org/10.3390/atmos15070753>, 2024.
- J9. Fragkos, K.; **Fountoulakis, I.**; Charalampous, G.; Papachristopoulou, K.; Nisantzi, A.; Hadjimitsis, D.; Kazadzis, S.: **Twenty-Year Climatology of Solar UV and PAR in Cyprus: Integrating Satellite Earth Observations with Radiative Transfer Modeling**. Remote Sens., 16, 1878. <https://doi.org/10.3390/rs16111878>, 2024.
- J10. Moustaka, A.; Korras-Carraca, M.-B.; Papachristopoulou, K.; Stamatis, M.; **Fountoulakis, I.**; Kazadzis, S.; Proestakis, E.; Amiridis, V.; Tourpali, K.; Georgiou, T.; et al. **Assessing Lidar Ratio Impact on CALIPSO Retrievals Utilized for the Estimation of Aerosol SW Radiative Effects across North Africa, the Middle East, and Europe**. Remote Sens., 16, 1689. <https://doi.org/10.3390/rs16101689>, 2024.

J11. **Fountoulakis, I.**, Tsekeri, A., Kazadzis, S., Amiridis, V., Nersesian, A., Tschla, M., Proestakis, E., Gkikas, A., Papachristopoulou, K., Barlakas, V., Emde, C., and Mayer, B.: **A sensitivity study on radiative effects due to the parameterization of dust optical properties in models**, *Atmos. Chem. Phys.*, 24, 4915–4948, <https://doi.org/10.5194/acp-24-4915-2024>, 2024.

J12. Papachristopoulou, K., **Fountoulakis, I.**, Bais, A. F., Psiloglou, B. E., Papadimitriou, N., Raptis, I.-P., Kazantzidis, A., Kontoes, C., Hatzaki, M., and Kazadzis, S.: **Effects of clouds and aerosols on downwelling surface solar irradiance nowcasting and short-term forecasting**, *Atmos. Meas. Tech.*, 17, 1851–1877, <https://doi.org/10.5194/amt-17-1851-2024>, 2024.

2023

J13. Kouklaki, D.; Kazadzis, S.; Raptis, I.-P.; Papachristopoulou, K.; **Fountoulakis, I.**; Eleftheratos, K.: **Photovoltaic Spectral Responsivity and Efficiency under Different Aerosol Conditions**. *Energies*, 16, 6644. <https://doi.org/10.3390/en16186644>, 2023

J14. Masoom, A., **Fountoulakis, I.**, Kazadzis, S., Raptis, I.-P., Kampouri, A., Psiloglou, B. E., Kouklaki, D., Papachristopoulou, K., Marinou, E., Solomos, S., Gialitaki, A., Founda, D., Salamalikis, V., Kaskaoutis, D., Kouremeti, N., Mihalopoulos, N., Amiridis, V., Kazantzidis, A., Papayannis, A., Zerefos, C. S., and Eleftheratos, K.: **Investigation of the effects of the Greek extreme wildfires of August 2021 on air quality and spectral solar irradiance**, *Atmos. Chem. Phys.*, 23, 8487–8514, <https://doi.org/10.5194/acp-23-8487-2023>, 2023.

J15. Raptis, I.-P., Kazadzis, S., **Fountoulakis, I.**, Papachristopoulou, K., Kouklaki, D., Psiloglou, B.E., Kazantzidis, A., Benetatos, C., Papadimitriou, N., Eleftheratos, K.: **Evaluation of the Solar Energy Nowcasting System (SENSE) during a 12-Months Intensive Measurement Campaign in Athens, Greece**, *Energies*, 16, 5361. <https://doi.org/10.3390/en16145361>, 2023

J16. Zerefos, C., **Fountoulakis, I.**, Eleftheratos, K., and Kazantzidis, A.: **The long-term variability of human health related solar ultraviolet-B radiation doses from the 1980s to the end of 21st century**, *Physiological Reviews*, 103:3, 1789–1826, <https://doi.org/10.1152/physrev.00031.2022>, 2023

J17. Petkov, B. H., Vitale, V., Di Carlo, P., Drofa, O., Mastrangelo, D., Smedley, A. R. D., Diémoz, H., Siani, A.-M., **Fountoulakis, I.**, Webb, A. R., Bais, A., Kift, R., Rimmer, J., Casale, G.-R., Hansen, G. H., Svendby, T., Pazmiño, A., Werner, R., Atanassov, A. M., Láská, K., De Backer, H., Mangold, A., Köhler, U., Velazco, V. A., Stübi, S. Solomatnikova, A., Pavlova, K., Sobolewski, P. S., Johnsen, B., Goutail, F., Mišaga, O. Aruffo, E., Metelka, L., Tóth, Z., Fekete, D., Aculinin, A. A. Lupi, A., Mazzola, M., Zardi, F.: **An unprecedented Arctic ozone depletion event during spring 2020 and its impacts across Europe**. *Journal of Geophysical Research: Atmospheres*, 128, e2022JD037581. <https://doi.org/10.1029/2022JD037581>, 2023

2022

J18. Papachristopoulou, K., Raptis, I.-P., Gkikas, A., **Fountoulakis, I.**, Masoom, A., and Kazadzis, S.: **Aerosol optical depth regime over megacities of the world**, *Atmos. Chem. Phys.*, 22, 15703–15727, <https://doi.org/10.5194/acp-22-15703-2022>, 2022.

J19. Eleftheratos, K., Kapsomenakis, J., **Fountoulakis, I.**, Zerefos, C. S., Jöckel, P., Dameris, M., Bais, A. F., Bernhard, G., Kouklaki, D., Tourpali, K., Stierle, S., Liley, J. B., Brogniez, C., Auriol, F., Diémoz, H., Simic, S., Petropavlovskikh, I., Lakkala, K., and Douvis, K.: **Ozone, DNA-active UV radiation, and cloud changes for the near-global mean and at high latitudes due to enhanced greenhouse gas concentrations**, *Atmos. Chem. Phys.*, 22, 12827–12855, <https://doi.org/10.5194/acp-22-12827-2022>, 2022.

- J20. Papachristopoulou, K., **Fountoulakis, I.**, Gkikas, A., Kosmopoulos, P.G., Nastos, P.T., Hatzaki, M., Kazadzis, S.: **15-Year Analysis of Direct Effects of Total and Dust Aerosols in Solar Radiation/Energy over the Mediterranean Basin**, Remote Sensing, 14, 7, <https://doi.org/10.3390/rs14071535>, 2022
- J21. Karagkiozidis, D., Friedrich, M.M., Beirle, S., Bais, A., Hendrick, F., Voudouri, K.A., **Fountoulakis, I.**, Karanikolas, A., Tzoumaka, P., Van Roozendaal, M., Balis, D., Wagner, T.: **Retrieval of tropospheric aerosol, NO₂, and HCHO vertical profiles from MAX-DOAS observations over Thessaloniki, Greece: intercomparison and validation of two inversion algorithms**, Atmos. Meas. Tech., 15, 5, pp. 1269-1301, <https://doi.org/10.5194/amt-15-1269-2022>, 2022
- J22. **Fountoulakis, I.**, Papachristopoulou, K., Proestakis, E., Amiridis, V., Kontoes, C., Kazadzis, S.: **Effect of Aerosol Vertical Distribution on the Modeling of Solar Radiation**, Remote Sensing, 14, 5, <https://doi.org/10.3390/rs14051143>, 2022
- J23. Chatzimpaloglou, A., Christophoridis, C., Nika, M.-C., Aalizadeh, R., **Fountoulakis, I.**, Thomaidis, N. S., Bais, A. F., Fytianos, K.: **Degradation of antineoplastic drug etoposide in aqueous environment by photolysis and photocatalysis. Identification of photocatalytic transformation products and toxicity assessment**, Chemical Engineering Journal, 431, 2, <https://doi.org/10.1016/j.cej.2021.133969>, 2022.

2021

- J24. **Fountoulakis, I.**, Diémoz, H., Siani, A. M., di Sarra, A., Meloni, D., and Sferlazzo, D. M.: **Variability and trends in surface solar spectral ultraviolet irradiance in Italy: on the influence of geopotential height and lower-stratospheric ozone**, Atmos. Chem. Phys., 21, 18689–18705, <https://doi.org/10.5194/acp-21-18689-2021>, 2021.
- J25. Fasano, G., Diémoz, H., **Fountoulakis, I.**, Cassardo, C., Kudo, R., Siani, A.M., Ferrero, L.: **Vertical profile of the clear-sky aerosol direct radiative effect in an Alpine valley, by the synergy of ground-based measurements and radiative transfer simulations**. Bull. of Atmos. Sci. & Technol. 2, 11. <https://doi.org/10.1007/s42865-021-00041-w>. 2021
- J26. Petkov, B., Vitale, V., Di Carlo, P., Mazzola, M., Lupi, A., Diémoz, H., **Fountoulakis, I.**, Drofa, O., Mastrangelo, D., Casale, G.-R., and Siani, A.-M.: **The 2020 Arctic ozone depletion and signs of its effect on the ozone column at lower latitudes**. Bull. of Atmos. Sci. & Technol. 2, 8 (2021). <https://doi.org/10.1007/s42865-021-00040-x>, 2021
- J27. Kosmopoulos, P. G., Kazadzis, S., Schmalwieser, A. W., Raptis, P. I., Papachristopoulou, K., **Fountoulakis, I.**, Masoom, A., Bais, A. F., Bilbao, J., Blumthaler, M., Kreuter, A., Siani, A. M., Eleftheratos, K., Topaloglou, C., Gröbner, J., Johnsen, B., Svendby, T. M., Vilaplana, J. M., Doppler, L., Webb, A. R., Khazova, M., De Backer, H., Heikkilä, A., Lakkala, K., Jaroslowski, J., Meleti, C., Diémoz, H., Hülsen, G., Klotz, B., Rimmer, J., and Kontoes, C.: **Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment**, Atmos. Meas. Tech., 14, 5657–5699, <https://doi.org/10.5194/amt-14-5657-2021>, 2021.
- J28. **Fountoulakis, I.**, Kosmopoulos, P., Papachristopoulou, K., Raptis, I.-P., Mamouri, R.-E., Nisantzi, A., Gkikas, A., Witthuhn, J., Bley, S., Moustaka, A., Buehl, J., Seifert, P., Hadjimitsis, D.G., Kontoes, C., Kazadzis, S.: **Effects of Aerosols and Clouds on the Levels of Surface Solar Radiation and Solar Energy in Cyprus**. Remote Sens. 13, 2319, <https://doi.org/10.3390/rs13122319>, 2021.
- J29. Isaia, G., Diémoz, H., Maluta, F., **Fountoulakis, I.**, Ceccon, D., di Sarra, A., Facta, S., Fedele, F., Lorenzetto, G., Siani, A. M., and Isaia, G.: **Does solar ultraviolet radiation play a role in COVID-19 infection and deaths? An environmental ecological study in Italy**. Science of The Total Environment, 143757, <https://doi.org/10.1016/j.scitotenv.2020.143757>, 2020.
- J30. Chatzimpaloglou, A., Christophoridis, C., **Fountoulakis, I.**, Antonopoulou, M., Vlastos, D., Bais, A., and Fytianos, K.: **Photolytic and photocatalytic degradation of antineoplastic drug irinotecan. Kinetic study, identification of transformation products and toxicity evaluation**. Chemical Engineering Journal, 405, 126866,

<https://doi.org/10.1016/j.ccej.2020.126866>, 2021.

2020

- J31. Lakkala, K., Kujanpää, J., Brogniez, C., Henriot, N., Arola, A., Aun, M., Auriol, F., Bais, A. F., Bernhard, G., De Bock, V., Catalfamo, M., Deroo, C., Diémoz, H., Egli, L., Forestier, J.-B., **Fountoulakis, I.**, Garane, K., Garcia, R. D., Gröbner, J., Hassinen, S., Heikkilä, A., Henderson, S., Hülsen, G., Johnsen, B., Kalakoski, N., Karanikolas, A., Karppinen, T., Lamy, K., León-Luis, S. F., Lindfors, A. V., Metzger, J.-M., Minvielle, F., Muskatel, H. B., Portafaix, T., Redondas, A., Sanchez, R., Siani, A. M., Svendby, T., and Tamminen, J.: **Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product**. *Atmos. Meas. Tech.*, 13, 6999–7024, <https://doi.org/10.5194/amt-13-6999-2020>, 2020.
- J32. **Fountoulakis, I.**, Diémoz, H., Siani, A. M., Hülsen, G., and Gröbner, J.: **Monitoring of solar spectral ultraviolet irradiance in Aosta, Italy**, *Earth Syst. Sci. Data*, 12, 2787–2810, <https://doi.org/10.5194/essd-12-2787-2020>, 2020.
- J33. Vitt, R., Laschewski, G., Bais, A. F., Diémoz, H., **Fountoulakis, I.**, Siani, A.-M., and Matzarakis, A.: **UV-Index Climatology for Europe Based on Satellite Data**. *Atmosphere*, 11, <https://doi.org/10.3390/atmos11070727>, 2020.
- J34. Eleftheratos, K., Kapsomenakis, J., Zerefos, C.S., Bais, A.F., **Fountoulakis, I.**, Dameris, M., Jöckel, P., Haslerud, A.S., Godin-Beekmann, S., Steinbrecht, W., Petropavlovskikh, I., Brogniez, C., Leblanc, T., Liley, J.B., Querel, R., Swart, D.P.J.: **Possible Effects of Greenhouse Gases to Ozone Profiles and DNA Active UV-B Irradiance at Ground Level**. *Atmosphere*, 11, 228, <https://doi.org/10.3390/atmos11030228>, 2020.
- J35. Siomos, N.; **Fountoulakis, I.**; Natsis, A.; Drosoglou, T.; Bais, A. **Automated Aerosol Classification from Spectral UV Measurements Using Machine Learning Clustering**. *Remote Sens.* 12, 965, <https://doi.org/10.3390/atmos11030228>, 2020.
- J36. Hülsen, G., Gröbner, J., Bais, A., Blumthaler, M., Diémoz, H., Bolsee, D., Diaz Rodríguez, A., **Fountoulakis, I.**, Naranen, E., Schreder, J., Stefania, F., and Vilaplana Guerrero, J. M.: **Second solar ultraviolet radiometer comparison campaign UVC-II**. *Metrologia*, <http://iopscience.iop.org/10.1088/1681-7575/ab74e5>, 2020.
- J37. **Fountoulakis, I.**, Diémoz, H., Siani, A.-M., Laschewski, G., Filippa, G., Arola, A., Bais, A.F., De Backer, H., Lakkala, K., Webb, A.R., De Bock, V., Karppinen, T., Garane, K., Kapsomenakis, J., Koukouli, M.-E., Zerefos, C.S. **Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy**. *Environments* 7, 1, <https://doi.org/10.3390/environments7010001>, 2020.

2019

- J38. **Fountoulakis, I.**, Natsis, A., Siomos, N., Drosoglou, T., and Bais, F. A.: **Deriving Aerosol Absorption Properties from Solar Ultraviolet Radiation Spectral Measurements at Thessaloniki, Greece**. *Remote Sensing*, 11, <https://doi.org/10.3390/rs11182179>, 2019.

2018

- J39. Raptis, I.-P., Kazadzis, S., Eleftheratos, K., Amiridis, V., **Fountoulakis, I.**: **Single scattering albedo's spectral dependence effect on UV irradiance**. *Atmosphere*, 9, 364, <https://doi.org/10.3390/atmos9090364>, 2018
- J40. **Fountoulakis, I.**, Zerefos, C. S., Bais, A. F., Kapsomenakis, J., Koukouli, M.-E., Ohkawara, N., Fioletov, V., De Backer, H., Lakkala, K., Karppinen, T., and Webb, A. R.: **Twenty-five years of spectral UV-B measurements over Canada, Europe and Japan: Trends and effects from changes in ozone, aerosols, clouds, and surface reflectivity**. *Comptes Rendus Geoscience*, 350, 393–402, <https://doi.org/10.1016/j.crite.2018.07.011>, 2018.
- J41. Gkertsis F., A.F. Bais, N. Kouremeti, Th Drosoglou, **I. Fountoulakis**, K. Fragkos, **DOAS-based total column ozone retrieval from Phaethon system**. *Atmospheric Environment*, 180, 51–58, <https://doi.org/10.1016/j.atmosenv.2018.02.036>, 2018.

J42. Zempila M.M., **I. Fountoulakis**, M. Taylor, S. Kazadzis, A. Arola, M. E. Koukouli, A. Bais, C. Meleti, D. Balis: **Validation of OMI erythemal doses with multi-sensor ground-based measurements in Thessaloniki, Greece.** Atmospheric Environment, 183, 106-121, <https://doi.org/10.1016/j.atmosenv.2018.04.012>, 2018.

J43. Berjón, A., Redondas, A., Sildoja, M.-M., Nevas, S., Wilson, K., León-Luis, S. F., el Gawhary, O., and **Fountoulakis, I.**: **Sensitivity study of the instrumental temperature corrections on Brewer total ozone column measurements.** Atmos. Meas. Tech., 11, 3323-3337, <https://doi.org/10.5194/amt-11-3323-2018>, 2018.

2017

J44. **Fountoulakis, I.**, Redondas, A., Lakkala, K., Berjon, A., Bais, A. F., Doppler, L., Feister, U., Heikkila, A., Karppinen, T., Karhu, J. M., Koskela, T., Garane, K., Fragkos, K., and Savastiouk, V.: **Temperature dependence of the Brewer global UV measurements.** Atmos. Meas. Tech., 10, 4491-4505, <https://doi.org/10.5194/amt-10-4491-2017>, 2017.

J45. Zempila, M. M., Taylor, M., Koukouli, M. E., Lerot, C., Fragkos, K., **Fountoulakis, I.**, Bais, A., Balis, D., and van Roozendaal, M.: **NILU-UV multi-filter radiometer total ozone columns: Comparison with satellite observations over Thessaloniki, Greece.** Science of The Total Environment, 590-591, 92-106, <https://doi.org/10.1016/j.scitotenv.2017.02.174>, 2017.

J46. Zempila, M.-M., van Geffen, J. H. G. M., Taylor, M., **Fountoulakis, I.**, Koukouli, M.-E., van Weele, M., van der A, R. J., Bais, A., Meleti, C., and Balis, D.: **TEMIS UV product validation using NILU-UV ground-based measurements in Thessaloniki, Greece.** Atmos. Chem. Phys., 17, 7157-7174, <https://doi.org/10.5194/acp-17-7157-2017>, 2017.

2016

J47. Fragkos, K., Bais, A. F., **Fountoulakis, I.**, Balis, D., Tourpali, K., Meleti, C., and Zanis, P.: **Extreme total column ozone events and effects on UV solar radiation at Thessaloniki, Greece.** Theor Appl Climatol, 126, 505-517, <https://doi.org/10.1007/s00704-015-1562-3>, 2016.

J48. Zempila, M.-M., Koukouli, M.-E., Bais, A., **Fountoulakis, I.**, Arola, A., Kouremeti, N., and Balis, D.: **OMI/Aura UV product validation using NILU-UV ground-based measurements in Thessaloniki, Greece.** Atmospheric Environment, <https://dx.doi.org/10.1016/j.atmosenv.2016.06.009>, 140, 283-297, 2016.

J49. **Fountoulakis, I.**, A. Redondas, A. F. Bais, J. J. Rodriguez-Franco, K. Fragkos, and A. Cede: **Dead time effect on the Brewer measurements: correction and estimated uncertainties.** Atmos. Meas. Tech., 9(4), 1799-1816, <https://doi.org/10.5194/amt-9-1799-2016>, 2016.

J50. **Fountoulakis, I.**, A. F. Bais, K. Fragkos, C. Meleti, K. Tourpali, and M. M. Zempila, **Short- and long-term variability of spectral solar UV irradiance at Thessaloniki, Greece: effects of changes in aerosols, total ozone and clouds.** Atmos. Chem. Phys., 16(4), 2493-2505, <https://doi.org/10.5194/acp-16-2493-2016>, 2016.

2015

J51. **Fountoulakis, I.**, and A. F. Bais, **Projected changes in erythemal and vitamin D effective irradiance over northern-hemisphere high latitudes.** Photochemical & Photobiological Sciences, <https://doi.org/10.1039/c5pp00093a>, 2015.

2014

J52. **Fountoulakis, I.**, A. F. Bais, K. Tourpali, K. Fragkos, and S. Misios, **Projected changes in solar UV radiation in the Arctic and sub-Arctic Oceans: Effects from changes in reflectivity, ice transmittance, clouds, and ozone.** J. Geophys. Res. Atmos., 119, 8073-8090, <https://doi.org/10.1002/2014JD021918>, 2014.

Preprints (under review)

- R1. Pantazis, C., Solomos, S., Nastos, P., Maneas, G., Kairis, O., Centrito, M., Marino, G., Roggero, P. P., Mihail, J., **Fountoulakis, I.**, Kapsomenakis, J., Gkisakis, V., Kourgialas, N., Kalantzakis, G. S., Papamanolioudaki, A. G., Sergeantani, C. K., and Zerefos, C. S., «**Insights into the Effects of Climate Variability and Agricultural Practices on Olive Orchards in Messenia, Greece: A Field Experiment Study**», Available at SSRN: <http://dx.doi.org/10.2139/ssrn.5084155>, 2025.
- R2. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Papachristopoulou, K., Moustaka, A., Marengo, F., Derimian, Y., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: **Characterization of Dust Aerosol Source Types and Associated Shortwave Direct Radiative Effects Over Cyprus: A Seven-Year Study**, EGU sphere [preprint], <https://doi.org/10.5194/egusphere-2026-1775>, 2026.
- R3. Kouklaki, D., Charalampous, G., Moustaka, A., Papetta, A., Herrero del Barrio, C., Chadoulis, R.-T., Aslanoğlu, S. Y., Herrero-Anta, S., Mytilinaios, M., Papadimitriou, N., Anyfanti, K., Spyrou, C., Meloni, D., Fragkos, K., Derimian, Y., Di Iorio, T., Mamouri, R.-E., Amiridis, V., Solomos, S., Kazadzis, S., and **Fountoulakis, I.**: **Dust Radiative Effects and Impact on Energy Production over the Mediterranean Basin**, EGU sphere [preprint], <https://doi.org/10.5194/egusphere-2026-2775>, 2026.
- R4. Papetta, A., Herrero del Barrio, C., Aslanoğlu, S. Y., Chadoulis, R.-T., Charalampous, G., Herrero-Anta, S., Kouklaki, D., Mytilinaios, M., Moustaka, A., Proestakis, E., Amiridis, V., Spyrou, C., Gkikas, A., Pikridas, M., Kezoudi, M., Marengo, F., Sciare, J., Vandenbussche, S., Solomos, S., Kazadzis, S., and **Fountoulakis, I.**: **Source-Dependent Optical and Mineral Signatures of Dust Outbreaks over the Mediterranean**, EGU sphere [preprint], <https://doi.org/10.5194/egusphere-2026-1956>, 2026.

Summary of publications – journals

A/A	Journal	Publisher	Impact Factor (2022)	Number of publications
1	Atmospheric Measurement Techniques	Copernicus Publications	3.3	9
2	Atmospheric Chemistry and Physics	Copernicus Publications	5.1	9
3	Remote Sensing	MDPI	4.1	7
4	Atmosphere	MDPI	2.3	4
5	Atmospheric Environment	Elsevier	3.7	3
6	Chemical Engineering Journal	Elsevier	13.2	2
7	Science of the Total Environment	Elsevier	8.0	2
8	Bulletin of Atmospheric Science and Technology	Springer	-	2
9	Journal of Geophysical Research- Atmospheres	American Geophysical Union Publications	3.4	2
10	Energies	MDPI	3.2	2
9	Physiological Reviews	American Physiological Society	28.7	1
11	Earth System Science Data	Copernicus Publications	11.6	1
12	Allergy	Wiley	12.0	1
13	Photochemical & Photobiological Sciences	Royal Society of Chemistry	3.2	1
14	Theoretical and Applied Climatology	Springer	2.7	1
15	Metrologia	IOPscience	2.4	1
16	Comptes Rendus Geoscience	ScienceDirect	1.4	1
17	Solar Energy	Elsevier	6.6	1
18	Environments	MDPI	3.7	1

19	Geoscientific Model Development	Copernicus Publications	4.9	1
	Total		Average=4.9	52

Annex II - List of conference papers

2025

- CP1. Charalampous, G.; Fragkos, K.; **Fountoulakis, I.**; Papachristopoulou, K.; Nisantzi, A.; Mamouri, R.-E.; Hadjimitsis, D.; Kazadzis, S. Direct Radiative Effects of Dust Events over Limassol, Cyprus in 2024 Using Ground-Based Measurements and Modelling. Environ. Earth Sci. Proc. 2025, 35, 77. <https://doi.org/10.3390/eesp2025035077>
- CP2. P. Nastos, C. Pantazis, S. Solomos, **I. Fountoulakis**, C. S. Zerefos, "Evaluating soil erosion risk in olive orchards through drone-based monitoring and field experiments", Proc. SPIE 13816, Eleventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2025), 138160G (19 September 2025); <https://doi.org/10.1117/12.3075485>
- CP3. Georgia Charalampous, Konstantinos Fragkos, **Ilias Fountoulakis**, Diofantos Hadjimitsis, Stelios Kazadzis, "The Solar Radiation and Energy Laboratory (ESEL) at Limassol, Cyprus: infrastructure, QA/QC procedures, and first year of results", Proc. SPIE 13816, Eleventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2025), 1381615 (19 September 2025); <https://doi.org/10.1117/12.3075522>
- CP4. Kartsios, S.; Misios, S.; Patlakas, P.; Varotsos, K.; Mavropoulou, I.; Kourantos, T.; **Fountoulakis, I.**; Gkikas, A.; Solomos, S.; Kapsomenakis, I.; et al. ClimateHub: Seasonal to Decadal Predictions for National Renewable Energy Management. Environ. Earth Sci. Proc. 2025, 35, 28. <https://doi.org/10.3390/eesp2025035028>
- CP5. Charalampous, G., Fragkos, K., Nisantzi, A., **Fountoulakis, I.**, Papachristopoulou, K., Hadjimitsis, D., and Kazadzis, S.: «Preliminary Evaluation of The Cyprus Erythral Irradiance Forecasting System», IOP Conf. Ser.: Earth Environ. Sci., 1522(1), 012038, <https://doi.org/10.1088/1755-1315/1522/1/012038>, 2025.
- CP6. **Fountoulakis, I.**, K. Garane, K. Eleftheratos, D. Kouklaki, A. Kapoulas, A. Bais, N. Papadimitriou, K. Fragkos, K. Papachristopoulou, S. Kazadzis, H. Diémoz, V. Savastouk, V. Amiridis, A. Papayannis and C. S. Zerefos: «20-year trends and variability of the UV index over Athens and Thessaloniki, Greece from measured and reconstructed time series», IOP Conf. Ser.: Earth Environ. Sci. 1522 012036, <https://doi.org/10.1088/1755-1315/1522/1/012036>, 2025.
- CP7. Kouklaki, D., **I. Fountoulakis**, S. Kazadzis, I-P Raptis, A. Kazantzidis, A. Kapoulas, K. Papachristopoulou, N. Papadimitriou, V. Amiridis, C. S. Zerefos, and K. Eleftheratos: «The Effect of Atmospheric Variability in Measured Spectral Ultraviolet Radiation in Athens, Greece, During the ASPIRE Campaign», IOP Conf. Ser.: Earth Environ. Sci. 1522 012037, <https://doi.org/10.1088/1755-1315/1522/1/012037>, 2025.

2024

- CP8. K. Fragkos, G. Charalampous, **I. Fountoulakis**, K. Papachristopoulou, D. Hadjimitsis and S. Kazadzis, "Next-Day Solar Irradiance Forecasting: A Preliminary Study in Limassol" 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED), Limassol, Cyprus, 2024, pp. 1-5, <https://doi.org/10.1109/SyNERGYMED62435.2024.10799286>.
- CP9. Konstantinos Fragkos, **Ilias Fountoulakis**, Georgia Charalampous, Kyriakoula Papachristopoulou, Rodanthi-Elisavet Mamouri, Dragos Ene, Argyro Nisantzi, Albert Ansmann, Patric Seifert, Diofantos Hadjimitsis, Stelios Kazadzis, "An assessment of solar irradiance enhancement events during CyCARE campaign at Limassol, Cyprus" Proc. SPIE 13212, Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), 1321206 (13 September 2024); <https://doi.org/10.1117/12.3034290>
- CP10. Georgia Charalampous; Konstantinos Fragkos; Andreas Karpasitis; **Ilias Fountoulakis**; Argyro Nisantzi; Kyriakoula Papachristopoulou: "Cyprus Erythral Radiation Forecasting System (CERYFOS)" IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 2024, pp. 3668-3672, <https://doi.org/10.1109/IGARSS53475.2024.10642077>.
- CP11. Konstantinos Fragkos, **Ilias Fountoulakis**, Georgia Charalampous, Kyriakoula Papachristopoulou, Rodanthi-

- Elisavet Mamouri, Dragos Ene, Argyro Nisantzi, Albert Ansmann, Patric Seifert, Diofantos Hadjimitsis, Stelios Kazadzis, "An assessment of solar irradiance enhancement events during CyCARE campaign at Limassol, Cyprus", <https://doi.org/10.1117/12.3034290>, Proc. SPIE 13212, Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), 1321206, 13 September 2024.
- CP12. Katerina Garane, **Ilias Fountoulakis**, Angelos Karanikolas, Alkiviadis F. Bais, Charikleia Meleti; Thirty years of solar ultraviolet spectral irradiance measurements in Thessaloniki: Variability and trends. AIP Conf. Proc. 18 January 2024; 2988 (1): 090003. <https://doi.org/10.1063/5.0183293>
- CP13. Angelos Karanikolas, Athanasios Natsis, **Ilias Fountoulakis**, Dimitris Karagkiozidis, Charikleia Meleti, Kleareti Tourpali, Alkiviadis Bais; The UV index in the 21st century over Thessaloniki, Greece, from measurements and simulations in relation to the Montreal Protocol. AIP Conf. Proc. 18 January 2024; 2988 (1): 090001. <https://doi.org/10.1063/5.0182767>
- CP14. Kostas Eleftheratos, Ioannis-Panagiotis Raptis, Dimitra Kouklaki, Stelios Kazadzis, Dimitra Founda, Basil Psiloglou, Panagiotis Kosmopoulos, **Ilias Fountoulakis**, Charis Benetatos, Klaus Gierens, Andreas Kazantzidis, Andreas Richter, Christos Zerefos; Atmospheric parameters affecting spectral solar irradiance and solar energy (ASPIRE). AIP Conf. Proc. 18 January 2024; 2988 (1): 110002. <https://doi.org/10.1063/5.0183678>

2023

- CP15. Fragkos, K., Nisantzi, A., **Fountoulakis, I.**, Michaelides, S., Charalampous, G., Papachristopoulou, K., Kontoes, C., Hadjimitsis, D., and Kazadzis, S.: Introducing the Solar Radiation and Energy Laboratory of the Eratosthenes Centre of Excellence: Overview of Activities, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, <https://doi.org/10.3390/environsciproc2023026045>, 2023.
- CP16. **Fountoulakis, I.**, Siomos, N., Raptis, I.-P., Eleftheratos, K., Kouklaki, D., Psiloglou, B. E., Amiridis, V., and Kazadzis, S.: Using Radiometric Measurements to Separate Dust and Smoke Radiative Effects during a Combined Smoke-Dust Event, <https://doi.org/10.3390/environsciproc2023026026>, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.
- CP17. Papachristopoulou, K., Tsekeri, A., Kouklaki, D., Raptis, P. I., Marinou, E., Amiridis, V., **Fountoulakis, I.**, and Kazadzis, S.: Surface Shortwave Radiation Measurements and Modeling under Intense Desert Dust Conditions, <https://doi.org/10.3390/environsciproc2023026015>, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.
- CP18. Kouklaki, D., Papachristopoulou, K., **Fountoulakis, I.**, Tsekeri, A., Raptis, P.-I., Kazadzis, S., and Eleftheratos, K.: Impact of Aerosols on Surface Solar Radiation and Solar Energy in the Mediterranean Basin, <https://doi.org/10.3390/environsciproc2023026056>, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.
- CP19. Moustaka, A., Korras-Carraca, M.-B., Papachristopoulou, K., **Fountoulakis, I.**, Kazadzis, S., Proestakis, E., Amiridis, V., Tourpali, K., and Gkikas, A.: Assessment of Cloud-Aerosol Lidar with Orthogonal Polarization–Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations Retrievals towards Estimating the Aerosol Direct Impact on the Shortwave Radiation Budgets in North Africa, Europe, and the Middle East, <https://doi.org/10.3390/environsciproc2023026139>, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.
- CP20. Eleftheratos, K., Raptis, I.-P., Kouklaki, D., Kazadzis, S., **Fountoulakis, I.**, Psiloglou, B. E., Papachristopoulou, K., Founda, D., Benetatos, C., Kazantzidis, A., and Richter, A.: The ASPIRE Project: Atmospheric Parameters Affecting Solar Irradiance and Solar Energy in Athens, Greece: Overview and Results, <https://doi.org/10.3390/environsciproc2023026046>, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.
- CP21. K. Fragkos, A. Nisantzi, **I. Fountoulakis**, S. Michaelides, G. Charalampous, K. Papachristopoulou, C. Kontoes, D.

Hadjimitsis, and S. Kazadzis: The solar radiation and energy laboratory of Eratosthenes Centre of Excellence: establishment and research directions. Ninth International Conference on Remote Sensing and Geoinformation of Environment, Ayia Napa, Cyprus, 3-5 April, 2023

- CP22. G. Charalampous, K. Fragkos, A. Nisantzi, **I. Fountoulakis**, D. Hadjimitsis, S. Kazadzis, and K. Papachristopoulou: Satellite ozone and UV measurements over Cyprus. Ninth International Conference on Remote Sensing and Geoinformation of Environment, Ayia Napa, Cyprus, 3-5 April, 2023

2022

- CP23. Panagiotis Kosmopoulos, Marios Mechilis, **Ilias Fountoulakis**, Akriti Masoom and Stelios Kazadzis: Energy Autonomy Scenarios for the Island of Antikythera in Greece by Exploiting Solar Power Plant Technologies, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP24. **Ilias Fountoulakis**, Kyriakoula Papachristopoulou, Emmanouil Proestakis, Vassilis Amiridis, Charalampos Kontoes and Stelios Kazadzis: Effect of the vertical profile of aerosol extinction coefficient on the modelling of solar radiation in different spectral regions, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP25. Henri Diémoz, **Ilias Fountoulakis**, Gabriele Fasano, Annachiara Bellini, Anna Maria Siani, Monica Campanelli, Francesca Barnaba and Gian Paolo Gobbi: A multi-sensor research network for the advanced characterisation of solar radiation, aerosol properties and trace gases in the Alps, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP26. Gabriele Fasano, Henri Diémoz, Claudio Cassardo, **Ilias Fountoulakis**, Rei Kudo, Monica Campanelli and Victor Estellés: Vertical Profile of the Aerosol Direct Radiative Effect in an Alpine Valley, by the Synergy of Ground-based Measurements and Radiative Transfer Models, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP27. Kyriakoula Papachristopoulou, **Ilias Fountoulakis**, Antonis Gkikas, Panagiotis Kosmopoulos, Panagiotis Nastos, Maria Hatzaki and Stelios Kazadzis: Total Aerosols and Pure Dust Induced Perturbations on Downwelling Surface Solar Radiation over the Mediterranean Basin, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP28. Alexandra Tsekeri, Vassilis Amiridis, Maria Tsihla, **Ilias Fountoulakis**, Angelos Nersesian, Emmanouil Proestakis, Antonis Gkikas, Kyriakoula Papachristopoulou, Vasileios Barlakas and Stelios Kazadzis: The Effect of Large Dust Size on Solar Radiation Fluxes, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP29. Kostas Eleftheratos, Dimitra Kouklaki, **Ilias Fountoulakis**, Ioannis-Panagiotis Raptis, Dimitra Founda, Stelios Kazadzis, Basil Psiloglou, Vassilis Amiridis, Eleni Marinou and Christos Zerefos: Impact of Extreme Wildfires of August 2021 on Air Quality and Solar Irradiance in Greece, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP30. Panagiotis Kosmopoulos, Stelios Kazadzis, Alois Schmalwieser, Panagiotis Raptis, Kyriakoula Papachristopoulou, **Ilias Fountoulakis**, Akriti Masoom, Alkiviadis Bais, Julia Bilbao, Mario Blumthaler, Axel Kreuter, Anna Maria Siani, Kostas Eleftheratos, Chrysanthi Topaloglou, Julian Gröbner, Bjørn Johnsen, Tove Svendby, Jose Manuel Vilaplana, Lionel Doppler, Ann Webb, Marina Khazova, Hugo De Backer, Anu Heikkilä, Kaisa Lakkala, Janusz Jaroslowski, Charikleia Meleti, Henri Diémoz, Gregor Hülsen, Barbara Klotz, John Rimmer and Charalampos Kontoes: The Ultraviolet Index Operating System (UVIOS): Application Example and Validation in the European Region, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP31. Angelos Karanikolas, Athanasios Natsis, **Ilias Fountoulakis**, Dimitris Karagkiozidis, Charikleia Meleti, Kleareti Tourpali and Alkiviadis Bais: The UV Index in the 21st Century over Thessaloniki, Greece, from Measurements and Simulations in Relation to the Montreal Protocol, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

- CP32. Katerina Garane, **Ilias Fountoulakis**, Angelos Karanikolas, Alkiviadis F. Bais and Charikleia Meleti: Thirty years of solar ultraviolet spectral irradiance measurements in Thessaloniki: Variability and trends, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CP33. Nikolaos Siomos, Dimitris Karagkiozidis, **Ilias Fountoulakis**, Fani Gkertsis, Dimitris Nikolis, Kalliopi A. Voudouri, Konstantinos Michailidis, Katerina Garane, Angelos Karanikolas, Athanasios Natsis, Alkiviadis F. Bais and Dimitris Balis: Exploring the synergy of lidars and spectrophotometers and its potential to separate aerosol species and improve trace gas profiling, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

2019

- CP34. N. Siomos, D. Balis, A. Bais, M. Koukouli, K. Garane, K. A. Voudouri, F. Gkertsis, A. Natsis, D. Karagkiozidis, and **I. Fountoulakis**: Towards an algorithm for near real time profiling of aerosol species, trace gases, and clouds based on the synergy of remote sensing instruments, <https://doi.org/10.1051/epjconf/202023708023>, 29th International Laser Radar Conference (ILRC29), Hefei, China, June 24-28, 2019

2016

- CP35. Zempila M. M., Koukouli M. E., Bais, A., Arola A., **Fountoulakis I.**, Kouremeti N., Kazadzis S., Balis D.: Long-term comparisons of OMI surface UV irradiances with a NILU-UV multi-filter actinometer in Thessaloniki, Greece, ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016
- CP36. Zempila M. M., Taylor M., **Fountoulakis I.**, Koukouli M. E., Bais, A., Kouremeti, N., Kazadzis, S., Meleti, C., Balis, D.: CIE, Vitamin D and DNA damage: A synergetic study in Thessaloniki, Greece, ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016

Annex III - List of abstracts in conference proceedings

2026

- CA1. Papadimitriou, N., Douvis, K., Misios, S., Gkikas, A., Kazantzidis, A., Zerefos, C.S., and **Fountoulakis, I.**: [Projected variability of solar resources in the Eastern Mediterranean and Middle East](#), DPG Spring Meetings 2026, Dresden, Germany, 8-13 Mar 2026, 2026.
- CA2. Stavraka, T., **Fountoulakis, I.**, Eleftheratos, K., Nastos, P., Papazoi, T., Fragkos, K., Bais, A., Garane, K., Kazantzidis, A., Papayannis, A., Amiridis, V., and Zerefos, C.: [Assessing aerosol-related uncertainties in satellite-based retrievals of effective UV doses for the production of cutaneous vitamin D](#), EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-864, <https://doi.org/10.5194/egusphere-egu26-864>, 2026.
- CA3. Huerta Gómez, M., Bais, A., Redondas, A., Meloni, D., **Fountoulakis, I.**, di Sarra, A., Garane, K., Kazadzis, S., and Wild, M.: [Dust optical properties in the UV](#), EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-6009, <https://doi.org/10.5194/egusphere-egu26-6009>, 2026.
- CA4. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Papachristopoulou, K., Nisantzi, A., Hadjimitsis, D., and Kazadzis, S.: [Evaluation of the Cyprus UV Index \(UVI\) Forecasting System Over One Year of Observations: Assessing the Impact of Ozone and Aerosols](#), EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-14140, <https://doi.org/10.5194/egusphere-egu26-14140>, 2026.
- CA5. Poupkou, A., **Fountoulakis, I.**, Kalligeris, N., Kapsomenakis, J., Melis, N., Solomos, S., and Zerefos, C. and the Delos project team (including Papadimitriou, N.): [An Emblematic, Transdisciplinary, and Multi-Hazard Monitoring Infrastructure on Delos Island \(Greece\) for the Protection of UNESCO World Heritage Monuments from Climate Change](#), EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-18171, <https://doi.org/10.5194/egusphere-egu26-18171>, 2026.

2025

- CA6. **Fountoulakis, I.**, Eleftheratos, K., Gkikas, A., Kouklaki, D., Papadimitriou, N., Amoiridis, V., Papayannis, A., and Zerefos, C.S.: [Aerosol optical properties in the UV spectral region over Athens, Greece](#), MedGU-25, Athens, Greece, 10-12 Nov 2025, 2025.
- CA7. Stavraka, T., T. Papazoi, **I. Fountoulakis**, P. Nastos, K. Fragkos, K. Eleftheratos, E. Koniari, A. Stratigos, A. Kazantzidis, George. Chrousos and C. Zerefos: [Estimating optimal solar UV exposure times in Athens, Greece for vitamin D production using satellite-based UV products](#), 5th annual meeting of the Mediterranean Geoscience Union, MEDGU 2025, Athens, Greece, 10 – 12 November, 2025.
- CA8. Papadimitriou, N., K. Douvis, J. Kapsomenakis, S. Misios, S. Solomos, S. Kazadzis, A. Kazantzidis, C. Zerefos, and **I. Fountoulakis**: [Impact of cloudiness on future variability of PV power generation in the Eastern Mediterranean](#), 5th annual meeting of the Mediterranean Geoscience Union, MEDGU 2025, Athens, Greece, 10 – 12 November, 2025.
- CA9. Misios, S., Douvis, K., Stavraka, T., Kapsomenakis, J., Solomos, S., Gkikas, A., Spyrou, C., **Fountoulakis, I.**, Poupkou, A., Kalabokas, P. and Zerefos, C., 2025. “[Mediterranean amplification in the LESFMIP simulations](#)”. In: 17th International Conference on Meteorology, Climatology, and Atmospheric Physics (COMECAP2025), Nicosia, Cyprus, 29 September - 1 October 2025.
- CA10. Kapsomenakis, I., Misios, S., **Fountoulakis, I.**, Papadimitriou, N., Douvis, K., Pantazis, C., Stavraka, T., Gkikas, A., Logothetis, S.A., Solomos, S., Zerefos, C., [Investigating the potential effects of SRM employment on vegetation](#), 17th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2025), Nicosia, Cyprus, 29 Sept–01 Oct 2025.
- CA11. Kartsios, S., S. Misios, I. Mavropoulou, T. Kourantos, I. Kapsomenakis, **I. Fountoulakis**, A. Gkikas, S. Solomos, D. Kouklaki, P. Patlakas, K. Varotsos, E. Marinou, D. Bliziotis, N. Sergis, D. Vallianatos, S. Papatheochari, C. Giannakopoulos, P. Zanis, V. Amiridis, and C. Zerefos: «[ClimateHub: Seasonal to decadal](#)

- predictions for national renewable energy management», COMECAP 2025, 28 September – 1 October 2025, Nicosia, Cyprus, 2025.
- CA12. Papetta, A., C. Herrero-de-Aza, Y. Aslanoglu, R.T. Chadoulis, G. Charalambous, S. Herrero, D. Kouklaki, M. Mytilinaios, A. Moustaka, E. Proestakis, S. Vandenbussche, F. Marengo, M. Pikridas, A. Gkikas, **I. Fountoulakis**, S. Solomos and S. Kazadzis: «Variability of Dust Optical Properties during Severe Dust Events over the Mediterranean», European Aerosol Conference, EAC2025, 31 August – 5 September 2025, Lecce, Italy, 2025.
- CA13. Zerefos, C., Solomos, S., Kapsomenakis, J., Poupkou, A., **Fountoulakis, I.**, Douvis, K., Spyrou, C., Stavraka, T., Gkikas, A., Kalabokas, P., Synolakis, C., Kalligeris, N., Melis, N., Garlaoui, C., Lentas, K., Liadopoulos, E., Boukouras, K., Kalogeras, I., Athanasoulis, D., Vakoulis, T., Maris C., 2025. “The development of Delos environmental monitoring site”. International Conference on Computer Applications & Quantitative Methods in Archaeology 2025, Digital Horizons: Embracing heritage in an evolving world, Athens, Greece, 5-9 May 2025.
- CA14. **Fountoulakis, I.**, S. Misios, A. Gialitaki, A. Gkikas, V. Amiridis, A. Kampouri, D. Kouklaki, A. Kazantzidis, K. Eleftheratos, K. Kourtidis, S. Rémy, B. Mayer, and C. S. Zerefos: «Changes in the spectral composition of surface solar radiation under the presence of stratospheric aerosols: a case study for the Pinatubo eruption», EGU General Assembly 2025, Vienna, Austria, 27 April – 2 May 2025.
- CA15. **Fountoulakis, I.**, Melis, N. S., Solomos, S., Kapsomenakis, J., Poupkou, A., Maris, C., Synolakis, C., and Zerefos, C. S. and the Delos Observatory team: Establishment of a transdisciplinary monitoring facility in Delos, Greece for the protection of Natural Heritage from the impacts of Climate Change, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-13403, <https://doi.org/10.5194/egusphere-egu25-13403>, 2025.
- CA16. Papadimitriou, N., **Fountoulakis, I.**, Gkikas, A., Papachristopoulou, K., Kapsomenakis, J., Kazadzis, S., Kazantzidis, A., Zerefos, C. S.: Using the CAMS solar radiation time-series product to model solar PV power potential. Uncertainty evaluation under diverse atmospheric conditions using ground-based measurements, EGU General Assembly 2025, Vienna, Austria, EGU25-13836, <https://doi.org/10.5194/egusphere-egu25-13836>, 2025.
- CA17. Maneas, G., Pantazis, C., Solomos, S., **Fountoulakis, I.**, and Zerefos, C. S.: Leveraging a Living Lab Approach for Sustainable Olive Cultivation: Addressing Climate Challenges and Enhancing Agroecosystem Resilience, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-21253, <https://doi.org/10.5194/egusphere-egu25-21253>, 2025.
- CA18. Pantazis, C., Nastos, P., Solomos, S., **Fountoulakis, I.**, Konsolaki, A., and Zerefos, C.: High-Resolution Soil Erosion Assessment in Mediterranean Olive Orchards Using Drone-Based Digital Elevation Models and Surface Runoff Monitoring, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-12941, <https://doi.org/10.5194/egusphere-egu25-12941>, 2025.
- CA19. Misios, S., Douvis, K., Stavraka, T., Kapsomenakis, J., Solomos, S., Gkikas, A., Spyrou, C., **Fountoulakis, I.**, Poupkou, A., Kalabokas, P., and Zerefos, C.: Summer-time Mediterranean amplification to different climate drivers, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-8848, <https://doi.org/10.5194/egusphere-egu25-8848>, 2025.
- CA20. Zerefos, C., Melis, N., Solomos, S., **Fountoulakis, I.**, Kapsomenakis, J., Poupkou, A., Kalligeris, N., Maris C., Athanasoulis, D., Boukouras, K., Douvis, K., Garlaoui, C., Gkikas, A., Kalabokas, P., Kalogeras, I., Lentas, K., Liadopoulos, E., Papadimitriou, N., Spyrou, C., Stavraka, T., Synolakis, C. and Vakoulis, T., 2025. “Protecting Natural Heritage from Climate Change Impacts: The establishment of an emblematic transdisciplinary monitoring facility in Delos, Greece”. 4th International Conference TMM-CH, Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Addressing World Challenges, Athens, Greece, 7-9 April 2025.
- CA21. Aslanoglu, S. Yeşer, R.-T. Chadoulis, G. Charalampous, S. Herrero-Anta, C. H. del Barrio, D. Kouklaki, A. Moustaka, M. Mytilinaios, A. Papetta, N. Papadimitriou, S. Solomos, A. Gkikas, C. Spyrou, S.

Vandenbussche, M. Proestakis, **I. Fountoulakis**: «Intense dust events over the Mediterranean Basin and their impact on PV power potential», EGU General Assembly 2025, Vienna, Austria, 27 April – 2 May 2025.

2024

- CA22. C. Pantazis, S. Solomos, P. Nastos, G. Maneas, O. Kairis, M. Centritto, G. Marino, P.P. Roggero, J. Mihail, **I. Fountoulakis**, V. Gkisakis, N. Kourgialas, C. Zerefos: [Impact of Climate Variability and Agricultural Practices on Olive Orchards in Messenia: A Field Experiment Approach](#), 4th annual meeting of the Mediterranean Geosciences Union, Barcelona, Spain, 25 – 28 November 2024
- CA23. S. Vandenbussche, **I. Fountoulakis**, S. Solomos, S. Kazadzis, C. Toledano, L. Doppler, M. Campanelli, V. Estelles, R. Roman, A. Nemuc, P. Raptis, P. Dagsson-Waldhauserova, M. J. Costa, K. Papachristopoulou, A. Baretto, N. Kouremeti, A. Masoom: [HARMONIA, International network for harmonisation of atmospheric aerosol retrievals from ground based photometers](#), 23rd AeroCom / 12th AeroSat workshop, Lille, France, Oct 14-18, 2024
- CA24. Solomos, S., Kapsomenakis J., Poupkou A., **Fountoulakis I.**, Melis N., Athanasoulis D., Boukouras K., Douvis K., Garlaoui C., Gkikas A., Kalabokas P., Kalligeris N., Kalogeras I., Lentas K., Liadopoulos E., Maris C., Spyrou C., Stavraka T., Synolakis C., Zerefos C.: [Impacts of climate change on cultural heritage. The development of Delos environmental monitoring facility](#). 3rd International Inter-Athenian Conference “Man and his Creations, a Perpetual Metamorphosis” organized by “Athens Calls Athens” on 5-7 November 2024
- CA25. **Fountoulakis, I.**, Kapsomenakis, I., Melis N., Poupkou, A., Solomos, S., Athanasoulis, D., Boukouras, K., Douvis, K., Garlaouni, C., Gkikas, A., Kalabokas, P., Kalligeris, N., Kalogeras, I., Lentas, K., Liadopoulos, E., Maris, C., Spyrou, C., Stavraka, T., Synolakis, C. and Zerefos C., 2024. [An Integrated System for Monitoring the Effects of Climate Change on the Monuments of Delos](#). The use of Earth Observation for Natural and Cultural Heritage ESA/ESRIN, 5-16 October 2024, Frascati, Italy.
- CA26. Chadoulis, R.-T., Aslanoğlu, S. Y., Charalampous, G., Herrero-Anta, S., Herrero del Barrio, C., Kouklaki, D., Moustaka, A., Mytilinaios, M., Papetta, A., Solomos, S., Gkikas, A., Spyrou, C., Papadimitriou, N., Vandenbussche, S., and **Fountoulakis, I.**: [Desert dust outbreaks at the Mediterranean Basin: Optical properties and impact on surface solar radiation](#), EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-569, <https://doi.org/10.5194/ems2024-569>, 2024.
- CA27. Solomos, S., Spyrou, C., Bartsotas, N. S., Kalogeri, C., **Fountoulakis, I.**, Zerefos, C. S., Aslanoğlu, Y., Chadoulis, R.-T., Charalampous, G., Herrero-Anta, S., Herrero del Barrio, C., Kouklaki, D., Moustaka, A., Mytilinaios, M., and Papetta, A.: [Development of METAL-WRF model for the description of mineral dust processes in the atmosphere based on NASA's EMIT satellite retrievals](#), EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-176, <https://doi.org/10.5194/ems2024-176>, 2024.
- CA28. Mytilinaios, M., Amodeo, A., De Rosa, B., Papagiannopoulos, N., Papanikolaou, C.-A., Aslanoglu, Y., Chadoulis, R.-T., Charalampous, G., **Fountoulakis, I.**, Kouklaki, D., Moustaka, A., Papetta, A., Solomos, S., and Mona, L.: [Study of optical and microphysical properties of atmospheric desert dust observed over the Italian peninsula by remote sensing techniques](#), EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-899, <https://doi.org/10.5194/ems2024-899>, 2024.
- CA29. Pantazis, C., Solomos, S., Maneas, G., Centritto, M., Marino, G., Roggero, P. P., Mihail, J., **Fountoulakis, I.**, Kapsomenakis, J., Gkisakis, V., Nastos, P., Kourgialas, N., and Zerefos, C. S.: [Agrometeorological assessment of olive cultivation practices in Messenia, Peloponnese, under climate change](#), EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-107, <https://doi.org/10.5194/ems2024-107>, 2024.

- CA30. Kazadzis, S. and the **COST action Harmonia Core group**: Harmonia COST Action: Overview of aerosol optical depth calibration and homogenization activities, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-69, <https://doi.org/10.5194/ems2024-69>, 2024.
- CA31. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Marengo, F., Derimian, Y., Karpasitis, A., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: Assessment of Dust Impact on Shortwave Surface Irradiance: A Seven-Year Study at Agia Marina Xyliatou, Cyprus, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-610, <https://doi.org/10.5194/ems2024-610>, 2024.
- CA32. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Marengo, F., Derimian, Y., Karpasitis, A., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: Assessment of Dust Impact on Shortwave Surface Irradiance: A Seven-Year Study at Agia Marina Xyliatou, Cyprus, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-610, <https://doi.org/10.5194/ems2024-610>, 2024.
- CA33. Papadimitriou, N., **Fountoulakis, I.**, Papachristopoulou, K., Gkikas, A., Kazadzis, S., Kapsomenakis, J., and Zerefos, C.: Parameterization of the direct and diffuse surface solar radiation components in the Global Solar Energy Estimator (GSEE) and related uncertainties in the energy production simulations, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-518, <https://doi.org/10.5194/ems2024-518>, 2024.
- CA34. Eleftheratos, K., Zerefos, C., Kapsomenakis, J., Gkikas, A., **Fountoulakis, I.**, Joeckel, P., Dameris, M., Misios, S.: Impact of peculiar years 2020, 2021, 2022 in the Antarctic ozone hole trends, Quadrennial Ozone Symposium, Boulder, Colorado, 15–19 July 2024.
- CA35. **Fountoulakis, I.**, Eleftheratos, K., Kapoulas, A., Kouklaki, D., Papadimitriou, N., Gkikas, A., Zerefos, C.: Twenty years of total ozone and spectral UV measurements by a Brewer spectroradiometer in Athens, Greece, Quadrennial Ozone Symposium, Boulder, Colorado, 15–19 July 2024.
- CA36. Papachristopoulou, K., **Fountoulakis, I.**, Hülsen, G., Gröner, J., Kouklaki, D., Masoom, A., Raptis, I.-P., Zerefos, C.S., Kazadzis, S.: Solar UV Radiation Nowcasting and Short-term Forecasting System Based on Earth Observation Data: Evaluation during the UVCIII Campaign, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024.
- CA37. Moustaka, A., Korras-Carraca, M.-B., Papachristopoulou, K., Stamatis, M., **Fountoulakis, I.**, Kazadzis, S., Proestakis, E., Amiridis, V., Tourpali, K., Zerefos, C., and Gkikas, A.: Assessment of Lidar Ratio Impact on CALIPSO Retrievals and on the Estimated Aerosol SW Radiative Effects Across North Africa, Middle East and Europe, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024.
- CA38. Kontoes, C., Papadopoulou, T., Kazadzis, S., Koutalieris, G., Stathopoulos, C., Salta, F., Patlakas, P., Papachristopoulou, K., Fountoulakis, I., Bartsotas, N., Delkos, A., Symeonidis, S., Sinnis, V.: Destination Renewable Energy: A Renewable Energy application based on Destination Earth Initiative data and platforms, IEEE International Geoscience and Remote Sensing Symposium (IGARSS), July 7 – 12, 2024.
- CA39. Charalampous, G., Fragkos, K., Karpasitis, A., Fountoulakis, I., Nisantzi, A., Papachristopoulou, K., Hadjimitsis, D., Kazadzis, S., Cyprus Erythemal Radiation Forecasting System (CERYFOS), IEEE International Geoscience and Remote Sensing Symposium (IGARSS), July 7 – 12, 2024.
- CA40. **Fountoulakis, I.**, Garane, K., Kapoulas, A., Kouklaki, D., Papadimitriou, N., Bais, A., Eleftheratos, K., Kazadzis, S., Papachristopoulou, K., Fragkos, K., Amiridis, V., Papayannis, A., and Zerefos, C.S.: Trends and Variability of the UV

Index over Athens and Thessaloniki, Greece from Measured and Reconstructed Time Series, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024

- CA41. Kouklaki, D., Kapoulas, A., **Fountoulakis, I.**, Kazadzis, S., Raptis, I-P, Papadimitriou, N., Papachristopoulou, K., Kazantzidis, A., Amiridis, V., Zerefos, C. S., and Eleftheratos, K.: *The Effect of Atmospheric Variability in Measured Spectral Ultraviolet Radiation in Athens, Greece, during the ASPIRE Campaign*, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024
- CA42. Charalampous, G., Fragkos, K., Nisantzi, A., **Fountoulakis, I.**, Papachristopoulou, K., Hadjimitsis, D., and Kazadzis, S.: *Preliminary Evaluation of the Cyprus Erythral Irradiance Forecasting System*, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024
- CA43. N. Παπαδημητρίου, **Η. Φουντουλάκης**, I. Καψομενάκης, Α. Γκίκας, Σ. Καζαντζής, Χ. Σπύρου, Χ. Ζερεφός: *Παρελθοντική και μελλοντική μεταβλητότητα της ηλιακής ακτινοβολίας και ενέργειας στην Ανατολική Μεσόγειο*. 13th National conference on soft energy technologies, Athens, Greece, May 15 – 17, 2024.
- CA44. Masoom, A., **Fountoulakis, I.**, Papachristopoulou, K., Marinou, E., Amiridis, V., Kazadzis, S.: *Effect of wildfires on aerosol optical and microphysical properties, transport and ageing*, ACTRIS Science Conference 2024, Rennes, France, May 13 - 16, 2024.
- CA45. Papadimitriou, N., **Fountoulakis, I.**, Kapsomenakis, J., Gkikas, A., Kazadzis, S., Spyrou, C., Papachristopoulou, K., and Zerefos, C. S.: *Variability in solar based power generation at the Eastern Mediterranean*, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-18880, <https://doi.org/10.5194/egusphere-egu24-18880>, 2024.
- CA46. Moustaka, A., Korras-Carraca, M.-B., Papachristopoulou, K., Stamatis, M., Proestakis, E., **Fountoulakis, I.**, Kazadzis, S., Amiridis, V., Tourpali, K., Solomos, S., Spyrou, C., Zerefos, C., and Gkikas, A.: *Assessing lidar ratio impact on CALIPSO retrievals utilized for estimating aerosol shortwave direct radiative effects over the NAMEE domain*, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-16988, <https://doi.org/10.5194/egusphere-egu24-16988>, 2024.
- CA47. Kontoes, C., Papadopoulos, D., Bartsotas, N. S., Kazadzis, S., Koutalieris, G., Stathopoulos, C., Salta, F. N., Patlakas, P., Papachristopoulou, K., **Fountoulakis, I.**, Delkos, A., Symeonidis, S., and Sinnis, V.: *The development of a Hybrid Renewable Energy Forecasting System under the Destination Earth initiative.*, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-18891, <https://doi.org/10.5194/egusphere-egu24-18891>, 2024.

2023

- CA48. Zerefos C., Kalabokas, P., **Fountoulakis, I.**, Gkikas, A., Kapsomenakis, I., Poupkou, A., Solomos, S., Spyrou, C., Douvis, K., Stavra, T., Luterbacher, J., Xoplaki, E., Eleftheratos, K., Gazerian, S.: *Stratospheric ozone and solar UV radiation*. UN Climate Change Conference (COP28) - United Arab Emirates, 30 Nov - 12 Dec 2023.
- CA49. Zerefos C., Kalabokas, P., **Fountoulakis, I.**, Gkikas, A., Kapsomenakis, I., Poupkou, A., Solomos, S., Spyrou, C., Douvis, K., Stavra, T., Luterbacher, J., Xoplaki, E., Eleftheratos, K., Gazerian, S.: *Warming in the broader Mediterranean region and its urban areas: Present day and future projections*. UN Climate Change Conference (COP28) - United Arab Emirates, 30 Nov - 12 Dec 2023.
- CA50. A. Moustaka, M.-B. Korras-Carraca, K. Papachristopoulou, **I. Fountoulakis**, S. Kazadzis, E. Proestakis, V. Amiridis, K. Tourpali and A. Gkikas: *Tropospheric aerosols direct impact on the shortwave radiation budget in North Africa, Europe and Middle East*. Meteorological Satellite Conference 2023, Malmo, Sweden, September 11 – 15, 2023.
- CA51. K. Papachristopoulou, **I. Fountoulakis**, D. Kouklaki, C. Kontoes, and S. Kazadzis: *Assessing aerosol related uncertainties in the NextSENSE2 system*. EMS Annual Meeting 2023, Bratislava, Slovakia & Online, 3–8 Sep 2023.

- CA52. K. Fragkos, R-E. Mamouri, **I. Fountoulakis**, A. Nisantzi, D. Ene, G. Charalampous, K. Papachristopoulou, A. Ansmann, J. Buhl, P. Seifert, D. Hadjimitsis, and S. Kazadzis: [The capacity of Eratosthenes Centre of Excellence to estimate cloud radiative effects: the CyCARE campaign](#). EMS Annual Meeting 2023, Bratislava, Slovakia & Online, 3–8 Sep 2023.
- CA53. S. Kazadzis, N. Kouremeti, A. Masoom, J. Groebner and the **Harmonia Core group Team**: [Aerosol sun photometry state of the art and progress and the COST action Harmonia](#). EMS Annual Meeting 2023, Bratislava, Slovakia & Online, 3–8 Sep 2023.
- CA54. K. Papachristopoulou, I-P. Raptis, A. Gkikas, **I. Fountoulakis**, A. Masoom, and S. Kazadzis: [Are Aerosol Optical Depth trends related with population changes? A worldwide assessment over megacities](#). IUGG, General Assembly, Berlin, Germany, 11-20 July 2023.
- CA55. **I. Fountoulakis**, K. Fragkos, K. Papachristopoulou, A. Nisantzi, A. Gkikas, D. Hadjimitsis, and S. Kazadzis: [Evolution of biologically active ultraviolet doses in Cyprus](#). EGU, General Assembly, Vienna, 24-28 April 2023.
- CA56. K. Fragkos, **I. Fountoulakis**, A. Nisantzi, K. Papachristopoulou, D. Hadjimitsis, and S. Kazadzis: [Modelled-based Photosynthetically Active Radiation climatology for Cyprus: Validation with measurements and trends](#). EGU, General Assembly, Vienna, 24-28 April 2023.
- CA57. K. Papachristopoulou, **I. Fountoulakis**, A. F Bais, B. E Psiloglou, C. Kontoes, M. Hatzaki, and S. Kazadzis: [Improvements and validation of nextSENSE solar energy nowcasting and short-term forecasting system](#). EGU, General Assembly, Vienna, 24-28 April 2023.
- CA58. D., Kouklaki, I-P. Raptis, S. Kazadzis, **I. Fountoulakis**, K. Papachristopoulou, and K. Eleftheratos: [The Aspire campaign: Assessing the effects of aerosols on solar radiation and energy in SE Europe](#). EGU, General Assembly, Vienna, 24-28 April 2023.

2022

- CA59. A.M. Siani, F. Frasca, H. Diémoz, **I. Fountoulakis**, M. Pedone, G.R. Casale, and A. Colosimo: [A Comparative Study Among Different Empirical Approaches for the Short-Term Prediction of the UV Index](#). European Conference on Solar UV Monitoring and Personal UV Exposure, Vienna, Austria, 14. - 16. September 2022.
- CA60. Gabriele Fasano, Henri Diémoz, Claudio Cassardo, **Ilias Fountoulakis**, Rei Kudo, Monica Campanelli, and Victor Estellés: [Vertical profile of the Aerosol Direct Radiative Effect in an Alpine valley, by the synergy of ground-based measurements and Radiative Transfer Models](#). European Conference on Solar UV Monitoring and Personal UV Exposure, Vienna, Austria, 14. - 16. September 2022.
- CA61. Henri Diémoz, **I. Fountoulakis**, A. M. Siani, O. Pisani, G. Fasano, and G. Hülsen: [Monitoring of solar spectral and broadband ultraviolet irradiance in Aosta, Italy: recent advances](#). European Conference on Solar UV Monitoring and Personal UV Exposure, Vienna, Austria, 14. - 16. September 2022.
- CA62. **Fountoulakis I.**, Diémoz H., Siani A. M., di Sarra A., Meloni D., and Sferlazzo D.M.: [Variability and trends of the surface solar spectral ultraviolet irradiance in Italy](#). European Conference on Solar UV Monitoring and Personal UV Exposure, Vienna, Austria, 14. - 16. September 2022.
- CA63. Raptis Ioannis-Panagiotis, **Fountoulakis Ilias**, Eleftheratos Kostas, Kosmopoulos Panagiotis, Kouklaki Dimitra, and Kazadzis Stelios: [UV erythemal and vitamin D retrieval from surface-based and satellite measurements and UVIOS model](#). European Conference on Solar UV Monitoring and Personal UV Exposure, Vienna, Austria, 14. - 16. September 2022.
- CA64. **Fountoulakis, Ilias** ; Papachristopoulou, Kyriakoula ; Kosmopoulos, Panagiotis ; Raptis, Ioannis-Panagiotis ; Gkikas, Antonios ; Mamouri, Rodanthi-Elisavet ; Nisantzi, Argyro ; Witthuhn, Jonas ; Kontoes, Charalampos ; Hadzimitsis, Diofantos ; and Kazadzis, Stelios: [Exploitation of Earth Observation information for solar energy modelling](#):

- applications in energy, health and agriculture. 44th COSPAR Scientific Assembly. Held 16-24 July, 2022. Online at <https://www.cosparathens2022.org/>. Abstract A0.3-0001-22.
- CA65. Kouklaki, D., Papachristopoulou, K., **Fountoulakis, I.**, Raptis, I.-P., Kazadzis, S., and Eleftheratos, K.: Direct effect of Aerosols on Surface Solar Radiation (GHI and DNI) for Solar Energy: sensitivity study using CAMS, satellite-based and ground-based measurements, EMS Annual Meeting 2022, Bonn, Germany, 5–9 Sep 2022, EMS2022-400, <https://doi.org/10.5194/ems2022-400>, 2022.
- CA66. Eleftheratos, K., Raptis, I.-P., Kouklaki, D., Kazadzis, S., Psiloglou, B., Founda, D., Kosmopoulos, P., **Fountoulakis, I.**, Benetatos, C., Gierens, K., Kazantzidis, A., and Richter, A.: Atmospheric parameters affecting Spectral solar Irradiance and solar Energy (ASPIRE), EMS Annual Meeting 2022, Bonn, Germany, 5–9 Sep 2022, EMS2022-526, <https://doi.org/10.5194/ems2022-526>, 2022
- CA67. Raptis, I.-P., Eleftheratos, K., Kazadzis, S., Kosmopoulos, P., Gierens, K., **Fountoulakis, I.**, Papachristopoulou, K., Kouklaki, D., Kazantzidis, A., Benetatos, C., and Psiloglou, V.: Evaluation of the Solar Energy Nowcasting System (SENSE) using Multiple Ground Based Measurements, EMS Annual Meeting 2022, Bonn, Germany, 5–9 Sep 2022, EMS2022-204, <https://doi.org/10.5194/ems2022-204>, 2022
- CA68. **Ilias Fountoulakis**, Henri Diémoz, Anna Maria Siani, Alcide di Sarra, Daniela Meloni and Damiano M. Sferlazzo: Surface Solar Spectral ultraviolet Irradiance in Italy: The Influence of Geopotential Height and Lower-Stratospheric Ozone, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.
- CA69. K. Eleftheratos, D. Kouklaki, **I. Fountoulakis**, I. Kapsomenakis, C. Zerefos, P. Jöckel, M. Dameris: Αλλαγές στον όζον και στη βλαβερή για το DNA υπεριώδη-B ακτινοβολία λόγω της αύξησης των θερμοκηπτικών αερίων. 1st conference for climate crisis, Athens, Greece, 15 – 17 June, 2022
- CA70. **I. Fountoulakis**, I.P. Raptis, D. Kouklaki, P. Kosmopoulos, B. Psiloglou, K. Eleftheratos, and S. Kazadzis: Spectral optical properties of aerosols in Athens, Greece during the August 2021 wildfires and their effects on surface solar radiation (No. EGU22-2721). EGU, General Assembly, Vienna, 23-27 May 2022.
- 2021**
- CA71. K. A. Voudouri, N. Siomos, K. Michailidis, A. Chatzopoulou, A. Natsis, **I. Fountoulakis**, A. Karanikolas, G. Kouvarakis, K. Garane, A. Bais and D. Balis: Aerosol typing from remote sensing techniques and in situ data over Thessaloniki, Greece, European Lidar Conference 2021, Granada, Spain, 16 – 18 November 2021
- CA72. N. Siomos, **I. Fountoulakis**, F. Gkertsis, K. A. Voudouri, K. Michailidis, K. Garane, D. Karagkiozidis, A. Karanikolas, A. Natsis, A. F. Bais and D. Balis: Presenting ASSA: an Aerosol Species Separation Algorithm based on the synergy of lidars and spectrophotometers, European Lidar Conference 2021, Granada, Spain, 16 – 18 November 2021
- CA73. **I. Fountoulakis**, H. Diémoz, A.-M. Siani, A. di Sarra, and D. Meloni: Variability of the spectral ultraviolet irradiance and total ozone in Italy: the role of atmospheric dynamics, Quadrennial Ozone Symposium 2021, Seoul, South Korea, 3-9 October 2021
- CA74. G. Fasano, H. Diémoz, A.-M. Siani, L. Scacchi, M. Depaoli, M. Zublena, **I. Fountoulakis**: The SOUVENIR project (Solar UV Extensive Network for Information and Reporting), Quadrennial Ozone Symposium 2021, Seoul, South Korea, 3-9 October 2021
- CA75. K. Eleftheratos, J. Kapsomenakis, C. Zerefos, **I. Fountoulakis**, P. Joeckel, M. Dameris: Total ozone and DNA UV changes in the future due to greenhouse gases, Quadrennial Ozone Symposium 2021, Seoul, South Korea, 3-9 October 2021
- CA76. I.-P. Raptis, D. Kouklaki, K. Eleftheratos, **I. Fountoulakis**, S. Kazadzis: Comparison of Total Ozone Column and UVI retrieved from Brewer, PANDORA and OMI at Athens, Greece during 2018-2021, Quadrennial Ozone Symposium 2021, Seoul, South Korea, 3-9 October 2021

- CA77. **I. Fountoulakis**, P. Kosmopoulos, K. Papachristopoulou, P.-I. Raptis, K. Eleftheratos, K. Garane, A. Bais, C. Kontoes, S. Kazadzis: A satellite-based UV and VIS climatology for biological and agricultural applications for Greece and Cyprus: preliminary results and validation, Quadrennial Ozone Symposium 2021, Seoul, South Korea, 3-9 October 2021
- CA78. Siomos N., **Fountoulakis I.**, Gkertsis F., Voudouri K. A., Michailidis K., Garane K., Karagiozidis D., Karanikolas A., Natsis A., Koukouli M. E., Bais A.F., Balis D.: A technique to retrieve vertical concentration profiles of individual aerosol species based on the synergy of lidar and spectrophotometer measurements. 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece, September 26-29, 2021
- CA79. K. A Voudouri, N. Siomos, K. Michailidis, **I. Fountoulakis**, A. Natsis, A. Karanikolas, K. Garane, A. Bais, D. Balis: Synergy of Remote Sensing Techniques for Aerosol Typing over Thessaloniki. 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece, September 26-29, 2021
- CA80. Papachristopoulou, K., **Fountoulakis, I.**, Kosmopoulos, P., Raptis, P. I., Mamouri, R.-E., Nisantzi, A., Witthuhn, J., Bühl, J., Gkikas, A., Hadjimitsis, D. G., Kontoes, C., and Kazadzis, S.: Clouds and aerosol effects on solar energy in Cyprus, EMS Annual Meeting 2021, online, 6–10 Sep 2021, EMS2021-314, <https://doi.org/10.5194/ems2021-314>, 2021.
- CA81. Papachristopoulou K., **Fountoulakis I.**, Kosmopoulos P., Kouroutsidis D., Raptis I.-P., Kontoes C., Hatzaki M., Kazadzis S.: Assessment of a newly developed short-term forecasting system (nextSENSE) of Downwelling Surface Solar Irradiance (DSSI) and validation with ground-based measurements, EGU, General Assembly, Vienna 19-30 April, 2021.
- CA82. **Fountoulakis I.**, Papachristopoulou K., Proestakis E., Gkikas A., Raptis I.-P., Siomos N., Kontoes C., Kazadzis S.: Effect of aerosol vertical distribution on the transfer of solar radiation through the atmosphere, EGU, General Assembly, Vienna 19-30 April, 2021
- CA83. Diémoz H., Fasano G., Scacchi L., Depaoli M., Siani A.M., Zublena M., Magri T., **Fountoulakis I.**: The SOUVENIR project - Solar UV Extensive Network for Information and Reporting. Annual Nordic Ozone and UV Group (NOG) meeting, Oslo, Norway, 20 – 21 April 2021
- CA84. Petkov B. H., Vitale V., Di Carlo P., Mazzola M., Lupi A., Diémoz H., **Fountoulakis I.**, Drofa O., Mastrangelo D., Siani A.M., Casale G. R.: Deplezione dell'ozono artico e suo impatto sulle medie latitudini. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021
- CA85. H. Diémoz, L. Scacchi, M. Depaoli, A.M. Siani, M. Zublena, T. Magri, **I. Fountoulakis**: The SOUVENIR project - Solar UV Extensive Network for Information and Reporting. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021
- CA86. G. Fasano, H. Diémoz, **I. Fountoulakis**, C. Cassardo, R. Kudo: Profilo verticale dell'effetto radiativo diretto dell'aerosol in un contesto alpino, dalla sinergia tra misure da terra e modelli di trasferimento radiativo. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021

2020

- CA87. N. Siomos, K. –A. Voudouri, A. Karanikolas, **I. Fountoulakis**, K. Michailidis, K. Garane, A. Natsis, A. Bais, and D. Balis: Investigating variations in the aerosol load over Thessaloniki during the COVID-19 lock-down period in Greece using the remote sensing infrastructure of PANACEA. Second scientific conference PANACEA, web conference, 29 September – 1 October 2020
- CA88. K. –A. Voudouri, N. Siomos, A. Karanikolas, A. Natsis, **I. Fountoulakis**, G. Kouvarakis, K. Michailidis, K. Garane, A. Bais, and D. Balis: Overview of the two PANACEA campaigns for Thessaloniki station: Aerosol typing from remote sensing techniques and in situ data. Second scientific conference PANACEA, web conference, 29 September – 1 October 2020

2019

- CA89. **Fountoulakis I.**, H. Diémoz, A.M. Siani, G. R. Casale, T. Magri, and G. Filippa: A comparative study between the variability of spectral solar UV irradiance at Rome and Aosta, Italy: the role of total ozone, air quality and meteorological conditions. 2o Congresso Nazionale AISAM, Naples, 24-26 September 2019
- CA90. T. Drosoglou, N. Siomos, **I. Fountoulakis**, A. Natsis, and A. Bais: Vertical distribution of ozone in the lower troposphere from MAX-DOAS measurements over Thessaloniki, Greece. First scientific conference PANACEA, Heraklion, Greece, 23 – 24 September 2019
- CA91. N. Siomos, D. Balis, A. Bais, M.E. Koukouli, K. Garane, K. A. Voudouri, F. Gkertsis, A. Natsis, D. Karagkiozidis, M. Mermigkas, and **I. Fountoulakis**: Towards an Algorithm for near real-time profiling of Aerosol Species, Trace Gases, and Clouds based on the synergy of Remote Sensing Instruments. First scientific conference PANACEA, Heraklion, Greece, 23 – 24 September 2019
- CA92. **Fountoulakis I.**, H. Diémoz, A.M. Siani, T. Magri, and G. Filippa: A comparative study between the variability of spectral solar UV irradiance at the low altitude urban site of Rome and the alpine site of Aosta, Italy: the role of total ozone and meteorological conditions. 35th International Conference on Alpine Meteorology (ICAM), Riva del Garda, Italy, 2 - 6 September 2019
- CA93. A. Natsis, **I. Fountoulakis**, N. Siomos, D. Karagkiozidis, T. Drosoglou, C. Meleti, and A. Bais: Retrieval of Aerosol Optical Depth in the UV from a single- and a double-monochromator Brewer spectrophotometer in Thessaloniki, Greece. European Aerosol Conference 2019, Gothenburg, Sweden, 25-30 Aug 2019
- CA94. N. Siomos, **I. Fountoulakis**, A. Natsis, T. Drosoglou, and A. Bais: Temporal Variations of the Predominant Aerosol Types during a 19-year Period in Thessaloniki, Greece. European Aerosol Conference 2019, Gothenburg, Sweden, 25-30 Aug 2019
- CA95. C. Zerefos, K. Eleftheratos, J. Kapsomenakis, A. Bais, and **I. Fountoulakis**: A note on the decadal evolution of ozone profiles and erythemal doses at ground level. 27th IUGG general assembly, Toronto, Canada, July 8 – 18, 2019
- CA96. **Fountoulakis I.**, and H. Diémoz: Monitoring of spectral UV irradiance in Aosta, Saint-Christophe, Italy: from measurements to data analysis. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019
- CA97. **Fountoulakis I.**, H. Diémoz, A.M. Siani, C.S. Zerefos, A.F. Bais, J. Kapsomenakis, M.E. Koukouli, H. De Backer, K. Lakkala, T. Karppinen, A. R. Webb, and A. Arola: Solar UV irradiance: trends and effects from atmospheric and meteo-climatic changes. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019
- CA98. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, T. Natsis, I. Logothetis, and A. Bais: [Projected changes of the erythemal solar radiation](#): Effects from changes in surface reflectivity, ozone, aerosols, and clouds, EGU, General Assembly, Vienna 7-12 April, 2019.
- CA99. K. Lakkala, J. Kujanpää, N. Kalakoski, A. Bais, **I. Fountoulakis**, B. Johnsen, T. Svendby, S. Hassinen, A. Heikkilä, and J. Hovila: Validation of AC SAF UV record product, NOG meeting, Chilton, UK, 26 – 27 March, 2019
- CA100. C. Zerefos K. Eleftheratos, J. Kapsomenakis, A. Bais, **I. Fountoulakis**, A. Sovde Haslerud, S. Godin-Beekmann, W. Steinbrecht, and I. Petropavlovskikh: A note on possible effects of the unexpected increase in global CFC-11 to ozone profiles and erythemal doses at ground level, International Symposium On: The Unexpected Increase in Emissions of Ozone-Depleting CFC-11, Vienna, Austria, March 25-27, 2019

2018

- CA101. H. Diémoz, **I. Fountoulakis**, and A.M. Siani: 12 years of solar UV monitoring in the Aosta Valley, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018

- CA102. J. Gröbner, A. Redondas, K. Lakkala, A. Serrano, J.M. Vilaplana, S.F. León-Luis, T. Karppinen, and **I. Fountoulakis**, G. Hülsen, L. Egli, and J. Rimmer: Spectral UV measurements within EUBREWNET, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
- CA103. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, T. Natsis, I. Logothetis, A. Bais, K. Lakkala, and V. De Bock: Global projections of the solar erythmal UV radiation in the 21st century, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
- CA104. D. Karagkiozidis, **I. Fountoulakis**, A.F. Bais, K. Garane, T. Drosoglou, and A. Natsis: Optimization of the AOD retrieval from direct sun spectral UV measurements by a Brewer spectrophotometer, in Thessaloniki, Greece, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
- CA105. A.M., Siani Casale G.R., H. Diémoz, **I. Fountoulakis**, M. Pedone, and A. Colosimo: Analysis of the Reconstructed Daily UVI Time-Series from the COST-726 data at Two Different Italian Sites, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
- CA106. F. Gkertsis, A. Bais, N. Kouremeti, T.Drosoglou, **I. Fountoulakis** and K. Fragkos: Total ozone column retrieval from three Phaethon DOAS systems in Thessaloniki, Greece, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA107. N. Siomos, **I. Fountoulakis**, A. Natsis, D. Karagkiozidis, T. Drosoglou, K. A. Voudouri, A. Bais and D. Balis: Aerosol classification based on the synergy of Brewer spectrophotometer and sunphotometer measurements, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA108. T. Drosoglou, N.Siomos, **I. Fountoulakis**, K. A. Voudouri, D. Karagkiozidis, A. Natsis, F. Hendrick, D. Balis, A. F. Bais, E. Marinou, V. Amiridis and M. Van Roozendaal: Aerosol profile retrievals from O4 MAX-DOAS observations in Thessaloniki, Greece, and comparison with data from co-located lidar, Brewer and CIMEL, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA109. A. Natsis, **I. Fountoulakis**, N. Siomos, T. Drosoglou and A. Bais: Twenty years of UV aerosol optical depth measurements by a Brewer spectrophotometer over Thessaloniki, Greece, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA110. **I. Fountoulakis**, A. Natsis, N. Siomos, T. Drosoglou, A. Bais, D. Balis and S. Kazadzis: Measurements of the aerosol single scattering albedo in the UV over Thessaloniki, Greece, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA111. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, A. Natsis, I. Logothetis and A. Bais: Global Projections of the solar erythmal UV radiation in the 21st century, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
- CA112. T. Drosoglou, N. Siomos, **I. Fountoulakis**, A. Natsis, and A.F. Bais: MAX-DOAS aerosol retrievals with the aid of co-located lidar profiles and comparisons with aerosol optical depth from Brewer spectrophotometer and CIMEL sun photometer, EGU, General Assembly, Vienna 8-13 April, 2018.
- CA113. K. Fragkos, I. Petropavlovskikh, M. Dotsas, A. Bais, M. Taylor, D. Hurtmans, **I. Fountoulakis**, M. E. Koukouli, D. Balis, and M. Stanek: Umkehr ozone profiles over Thessaloniki and comparison with satellite overpasses, EGU, General Assembly, Vienna 8-13 April, 2018.

2016

- CA114. M. M. Zempila, M. Taylor, M. E. Koukouli, C. Lerot, A. Bais, K. Fragkos, **I. Fountoulakis**, D. Balis, M. van Roozendaal, N. Kouremeti, and S. Kazadzis: Evaluation of Satellite Total Ozone Observations with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P, Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016
- CA115. M. M. Zempila, M. Taylor, M. E. Koukouli, **I. Fountoulakis**, A. Bais, A. Arola, J. van Geffen, M. van Weele, R. van der A, C. Meleti, D. Balis, N. Kouremeti, and S. Kazadzis: Evaluation of Satellite Photobiological Effective Dose Products with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P, Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016
- CA116. M. M. Zempila, M. E. Koukouli, A. Bais, A. Arola, **I. Fountoulakis**, N. Kouremeti, S. Kazadzis, and D. Balis: Evaluation of OMI Surface UV Irradiances against NILU-UV Measurements: in preparation for TROPOMI/S5P, Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016
- CA117. N. Peinado-Galan, O. Garcia, X. Calbet, E. Lopez-Baeza, E. Sepulveda, M. Koukouli, I. Zyrichidou, **I. Fountoulakis**, D. Balis, A. Bais, A. Redondas, T. Karppinen, J. López-Solano, and B. Hernández-Cruz: Comparison of IASI/MetopA and OMI/Aura ozone column amounts with eubrewnet ground-based measurements, EUMETSAT Conference 2016, Darmstadt, Germany, 26 - 30 September 2016
- CA118. F. Gkertsis, A. Bais, T. Drosoglou, K. Fragos and **I. Fountoulakis**: Total ozone data retrieval from the Phaethon DOAS system, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
- CA119. M. Zempila, M. Taylor, A. Bais, **I. Fountoulakis**, S. Kazadzis and K. Fragkos: Introducing a cloud screening detector using global horizontal irradiances in UV and PAR in Thessaloniki, Greece, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
- CA120. K. Fragkos, M. Taylor, A. Bais, **I. Fountoulakis**, K. Tourpali, C. Meleti and M. M. Zempila: Multi-decadal trend analysis of total columnar ozone over Thessaloniki, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
- CA121. **I. Fountoulakis**, A.F. Bais, K. Fragkos, C. Meleti, K. Tourpali, M.M. Zempila, and K. Garane : Effects of changes in aerosols, total ozone and clouds on the short- and long-term variability of the spectral solar UV irradiance over Thessaloniki, Greece, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA122. B. Hernández-Cruz, A. Redondas, M. Rodríguez Valido, J. López-Solano, S. F. León-Luis, V. Carreño, A. Berjón, D. Santana-Díaz, J. Rimmer, J. Gröbner, **I. Fountoulakis**, T. Karppinen, and H. Diémoz: A European Brewer Network: Web Tools for Ozone Data Process and Configuration Interface, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA123. M. E. Koukouli, C. Lerot, K. Fragkos, **I. Fountoulakis**, M. M. Zempila, M. Taylor, D. Balis, A. Bais, and M. van Roozendaal: Validation of the long term ESA Ozone-CCI GODFIT_v3 Total Ozone Record using three different ground-based instruments at a Northern mid-latitude station, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA124. K. Fragkos, I. Petropavlovskikh, A.F. Bais, **I. Fountoulakis**, and M. Stanek: Umkehr ozone profiles in Thessaloniki and comparison with MLS overpasses, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA125. **I. Fountoulakis**, A. Redondas, A.F. Bais, J.J. Rodriguez-Franco, K. Fragkos, and A. Cede: Dead time effect on the Brewer measurements of spectral UV irradiance and TOC: correction and estimated uncertainties, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

- CA126. **I. Fountoulakis**, A.F. Bais, K. Lakkala, Z. Toth, V. De Bock, H. Diémoz, L. Doppler, U. Feister, K. Fragkos, J. Gröbner, A. Heikkilä, T. Karppinen, T. Koskela, J.M. San Atanasio, A.M. Siani, and A.R.D. Smedley: Temperature dependence of the Brewer spectral UV and total ozone column measurements, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA127. M.M. Zempila, M. Taylor, M.E. Koukouli, A. Bais, C. Lerot, K. Fragkos, **I. Fountoulakis**, T. Drosoglou, F. Gkerts, S. Kazadzis, D. Balis, and M. van Roozendaal: High frequency retrieval of total ozone from a ground-based NILU-UV radiometer using a neural network model: validation of the model and evaluation of satellite observations, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
- CA128. N. Peinado-Galán, X. Calbet, O.E. García, E. López-Baeza, A. Redondas, E. Sepúlveda, M. E. Koukouli, I. Zyrichidou, **I. Fountoulakis**, D. Balis, A. Bais, T. Karppinen, J. López-Solano, B. Hernández-Cruz, and M. E. Sanromá: Quality assessment of IASI/Metop-A and OMI/Aura ozone column amounts by using EUBREWNET ground-based measurements, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

2015

- CA129. A. Kazantzidis, A.Smedley, R. Kift, J. Rimmer, J. Berry, **I. Fountoulakis**, T. Koskela, L. E. Rhodes, and A. R. Webb: A database of solar UV availability across Europe, European Society of Photobiology 2015 Congress, Aveiro, Portugal, 31 August - 4 September, 2015
- CA130. K. Fragkos, A.F. Bais, **I. Fountoulakis**, D.S. Balis, K. Tourpali, and C. Meleti: Effects of extreme total column ozone events on UV solar radiation in an urban environment, 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015
- CA131. **I. Fountoulakis**, A.F. Bais, K. Tourpali, and S. Misios: Projected changes in solar UV radiation over the high latitudes of the southern and the northern hemisphere, 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015

2014

- CA132. Bais A., Kazantzidis A., Giannaros T., Kazadzis S., Nikitidou E., Zempila M.M., Tzoumanikas P., Salamalikis V., Melas D., Zerefos C., Fragkos K., **Fountoulakis I.**, Drosoglou T. and Kotti M.C.: The Greek Solar Energy Network, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
- CA133. Zempila M.M., Bais A., Kouremeti N., Meleti C. and **Fountoulakis I.**: Measurements of UV Solar Radiation and Estimated Products in Thessaloniki from a NILU-UV multichannel radiometer, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
- CA134. Fragkos K., Bais A.F., Meleti C., **Fountoulakis I.**, Tourpali K., Balis D. and Zerefos C.S.: Variability of a thirty-year record of total ozone derived from a Brewer spectrophotometer at Thessaloniki and the SBUV version 8.6, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
- CA135. **Fountoulakis I.**, Bais A.F., Fragkos K., Meleti C., Zempila M.M., Kouremeti N., and Tourpali K.: Long-term trends and climatology of spectral surface UV irradiance at Thessaloniki, Greece, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

2013

- CA136. Bais A.F., Giannaros T.M., Kazantzidis A., Melas D., Fragkos K., **Fountoulakis I.** and Nikitidou E., The helenic network of solar energy: evaluation of short term predictions in comparison to measurements, 13th International Conference on Environmental Science and Technology (CEST), 5-7 September, 2013, Athens, Greece

- CA137. **I. Fountoulakis**, A. F. Bais, K. Fragkos, S. Misios, and K. Tourpali, Projections of UV irradiation over an Arctic Ocean region using ozone and surface reflectivity from five Earth System Models, DACA 2013, Davos, 8 – 12 July 2013

2012

- CA138. A.F. Bais, A. Kazantzidis, P. Tzoumanikas, E. Nikitidou, T. Giannaros, D. Melas, C. Meleti, H. Kambezidis, V. Salamalikis, K. Fragkos, and **I. Fountoulakis**, Estimation of solar irradiance from satellite data and numerical weather predictions over Greece, International Radiation Symposium 2012, Dahlem Cube, Berlin, Germany, 6 – 10 August 2012

Annex IV - List of Journals for which IF has been a reviewer

- Acta Geophysica (Springer)
- African Journal of Environmental Science and Technology (AJ)
- Annales Geophysicae (Copernicus)
- Applied Sciences (MDPI)
- Atmosphere (MDPI)
- Atmospheric Chemistry and Physics (Copernicus)
- Atmospheric Environment (Elsevier)
- Atmospheric Measurement Techniques (Copernicus)
- Earth and Space Science (Wiley)
- Earth System Science Data (Copernicus)
- Energies (MDPI)
- Engineering Applications of Artificial Intelligence (Elsevier)
- Environmental Science and Pollution Research (Springer)
- Environment, Development and Sustainability (Springer Nature)
- Indian Journal of Science & Technology (ISEE)
- International Journal of Digital Earth (Taylor & Francis)
- International Journal of Sustainable Energy (Taylor & Francis)
- Journal of Arid Environments (Elsevier)
- Journal of King Saud University – Science (Elsevier)
- Journal of Quantitative Spectroscopy and Radiative Transfer (Elsevier)
- Measurement: Digitalization (Elsevier)
- Measurement Science and Technology (IOP science)
- Metrologia (IOP science)
- Nature Communications (Springer)
- Nature Scientific Reports (Springer)
- Photochemical & Photobiological Sciences (Springer)
- Photochemistry and Photobiology (Wiley)
- Optoelectronics and Advanced Materials-Rapid Communications (National Institute of Optoelectronics)
- Remote Sensing (MDPI)
- Remote Sensing of Environment (Elsevier)
- Rendiconti Lincei - scienze fisiche e naturali (Elsevier)
- Science of the Total Environment (Elsevier)
- Sensors (MDPI)
- Stochastic Environmental Research and Risk Assessment (Springer Nature)
- Sustainability (MDPI)
- The European Physical Journal Plus (Springer)
- Theoretical and Applied Climatology (Springer)

Annex V - List of research projects

Working period	Role	Project	Source	Project period
06/2026 - present	Advisor	SHIPAIR	Hellenic Foundation For Research & Innovation	2026 - 2028
06/2026 - present	Researcher, WP leader	The Climate Observatory of Peloponnese	European Regional Development Fund (Project Call reference PEL 62).	2026 - 2029
06/2025 – present	Researcher, PI	ReEnergy-MED	European Centre for Medium-Range Weather Forecasts (ECMWF)	2025 - 2027
03/2026 – 06/2026	Researcher	“CACTUS: Copernicus Atmospheric Composition Training and User Guidance Service” – EUMETSAT	EUMESTAT	2025 - 2027
09/2025 – 12/2025	Researcher	CARMINE	Horizon Europe	2024 - 2028
10/2024 – 07/2025	Researcher	OLIVE-ALARM	Ministry of Rural development and food	2022 - 2025
01/2025 - present	Researcher	C3S National Collaboration Programme (C3S-NCP)	European Centre for Medium-Range Weather Forecasts (ECMWF)	2024 - 2026
04/2024 – 06/2026	Researcher, WP leader	Development and installation of an integrated system for the monitoring of the impacts of climatic changes on the monuments of Delos.	Partnership of charitable institutions "Protovoulia21"	2024 - 2026
09/2023 – 05/2026	Researcher	National Network for Climate Change and its Impact (CLIMPACT II)	General Secretariat for Research and Innovation	2023 - 2026
07/2023 – 07/2025	Researcher	Sustainable Approaches to LAnd and water Management in MEDiterranean Drylands (SALAM-MED)	European Union PRIMA-MED	2022 - 2025
11/2022 - present	Researcher, WG co-leader	CA21119 - International network for harmonization of atmospheric aerosol retrievals from ground based photometers (Harmonia)	European Union COST Action	2022 - 2026
09/2022 – 12/2022	Researcher	Measuring atmospheric parameters affecting spectral solar irradiance and solar energy (ASPIRE)	Hellenic Foundation for Research and Innovation	2021 - 2023
09/2023 – 10/2023				
11/2021 – 10/2022	Researcher	EuroGEOSS Showcases: Applications powered by Europe (E-SHAPE)	HORIZON 2020	2019 - 2022
11/2020 – 10/2021	Researcher	EXCELSIOR CoE – ERATOSTHENES: Excellence Research Centre for Earth Surveillance and Space-Based Monitoring of the Environment	H2020-EU.4.a. - Teaming of excellent research institutions and low performing RDI regions	2019 - 2026
11/2022 – 12/2024				
01/2018 – 11/2020	Researcher	Espletamento di attività tecniche inerenti la misura della radiazione solare ultravioletta per l' avvio di un laboratorio ottico, di competenza della Sezione aria ed atmosfera	Agenzia regionale Per la Protezione dell'Ambiente della Valle d' Aosta (ARPA)	2018 - 2020
06/2018 – 02/2020	Researcher	Optimization and application of methods for ground-based remote sensing of aerosols and ozone in the lower troposphere for investigating their variability	Human Resources Development, Education and Lifelong Learning 2014-2020 (European Social Fund - ESF); MIS 5004486	2018 - 2020
09/2014 – 12/2017	Researcher	eEnviPer - "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-Government services and applications".	CIP - Competitiveness and innovation framework programme (CIP), (2007-2013)	2012 - 2017
09/2012 – 12/2013				
09/2017 – 12/2017	Researcher	Brewer Total Ozone Columns and Aerosol Optical Depths for Omi Validation	Fundación Canaria General de Universidad de La Laguna G-38083408 (ESA)	2017 - 2018
09/2016 – 12/2016	Researcher	Traceability for atmospheric total column ozone (ATMOZ)	European metrology Research Program, jointly funded by the EMRP participating countries within EURAMET and the European Union.	2014 - 2017
02/2016 – 08/2016	Researcher	QA4ECV - Quality Assurance for Essential Climate	European Union FP7 Space	2014 – 2017

		Variables	2013-1 Project	
01/2014 – 12/2017	Researcher	COST 1207 – EuBrewNet “A European Brewer Network”	European Union COST Action	2014 - 2017
01/2014 – 12/2014	Researcher	SOLID (First European SOLar Irradiance Data Exploitation)	European Union FP7 Space 2012-1 Project	2012 -2015
06/2011 – 07/2012	Post-graduate Research Assistant	EDHE – “Hellenic Network of Solar Energy”.	European Commission – Communications Networks, Content and Technology.	2011 - 2013
03/2011 – 04/2011	Post-graduate Research Assistant	Stratospheric-Climate Links with Emphasis on the Upper Troposphere and Lower Stratosphere (SCOUT-O3).	European Union FP6 – SUSTDEV.	2004 - 2009
11/2010	Post-graduate Research Assistant	Absolute calibration of UVA and UVB actinometers.	Lithouanian Hydrometeorological Service.	2010
04/2010 – 10/2010	Post-graduate Research Assistant	Comparison between ground based and satellite measurements of the total column of NO ₂ , NO ₂ VAL.	ESA	2007 - 2009