

## Prof. Hanefi BAYRAKTAR

### Personal Information

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### International Researcher IDs

ScholarID: WHbVnqoAAAAJ

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Yoksis Researcher ID: 23469

### Education Information

Doctorate, Ataturk University, Fen Bil. Enstitüsü, Çevre Bilimleri, Turkey 2002 - 2006

Postgraduate, Ataturk University, Fen Bil. Enstitüsü, Çevre Bilimleri, Turkey 1999 - 2002

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bil. Fak., Meteoroloji Mühendisliği, Turkey 1989 - 1994

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Erzurum Kent Atmosferinde Partikül Madde Kompozisyonu, Atatürk Üniversitesi, Mühendislik Fak., Çevre Müh. , 2006

Postgraduate, Atmosferik Çökelme Tayini, Atatürk Üniversitesi, Mühendislik Fak., Çevre Müh. , 2002

### Research Areas

Environmental Engineering, Environmental Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2017 - Continues

Professor, Bayburt University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - 2021

Associate Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2011 - 2016

### Academic and Administrative Experience

İklim Değişikliği Koordinatörü, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2023 - Continues

Scientific Award Committee Member, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2022 - Continues

Dean, Bayburt University, Faculty Of Engineering, 2018 - 2021

Vice Rector, Bayburt University, 2017 - 2021

## Courses

Hava Kirliliği Analiz Metodları, Postgraduate, 2022 - 2023  
İklim Krizi ve Hava Kirliliği, Postgraduate, 2022 - 2023  
Çevre Sorunları ve Etik, Undergraduate, 2022 - 2023  
Hava Kirliliği Kontrolü, Undergraduate, 2020 - 2021, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Hava Kirlenmesi, Undergraduate, 2020 - 2021, 2014 - 2015, 2013 - 2014  
Ekoloji, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Çevre mühendisliği tasarım II, Undergraduate, 2014 - 2015, 2012 - 2013  
Çevre mühendisliği tasarım I, Undergraduate, 2013 - 2014  
Çevre mühendisliğine giriş, Undergraduate, 2014 - 2015, 2013 - 2014  
Çevre Kimyası lab 2, Undergraduate, 2012 - 2013  
Çevre m Mühendisliği Tasarım I, Undergraduate, 2013 - 2014  
Yenilenebilir Enerji kaynakları, Postgraduate, 2012 - 2013  
Endüstriyel hava kirlenmesi, Postgraduate, 2013 - 2014  
Hava Kirliliği Modellemesi, Postgraduate, 2012 - 2013  
İstatistik ve olasılık, Undergraduate, 2013 - 2014  
Çevre Mühendisliği Tasarım, Undergraduate, 2012 - 2013  
Hidroloji, Undergraduate, 2012 - 2013  
Endüstriyel Hava Kirliliği, Doctorate, 2012 - 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determination of the gas/particle phase concentrations of PCBs in urban and rural atmosphere in Erzurum, Turkey**  
Paloluğlu C., BAYRAKTAR H.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.194, no.10, 2022 (SCI-Expanded)
- II. **A multipoint (49 points) study of dry deposition of polycyclic aromatic hydrocarbons (PAHs) in Erzurum, Turkey by using surrogated snow surface samplers**  
BAYRAKTAR H., Paloluğlu C., Turalioğlu F. S., Gaga E. O.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, no.12, pp.12400-12413, 2016 (SCI-Expanded)
- III. **Atmospheric concentrations of polycyclic aromatic hydrocarbons (PAHs) in an urban traffic site in Erzurum, Turkey**  
Paloluğlu C., BAYRAKTAR H., AKTAN M., Turalioğlu F. S., Gaga E. E.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.30, no.4, pp.1223-1234, 2016 (SCI-Expanded)
- IV. **Use of Surrogated Snow Surface Sampler to Determine Dry Deposition of PAHs**  
Paloluğlu C., BAYRAKTAR H.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.37, no.3, pp.458-467, 2015 (SCI-Expanded)
- V. **INVESTIGATION OF DRY DEPOSITION FLUX OF POLYCYCLIC AROMATIC HYDROCARBONS FROM TRAFFIC SOURCES USING A SURROGATE SNOW SURFACE SAMPLER**  
Paloluğlu C., BAYRAKTAR H., TURALIOĞLU F. S., Bayraktar M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, no.5, pp.1725-1734, 2015 (SCI-Expanded)
- VI. **SPATIAL AND TEMPORAL VARIATIONS OF O-3 AND NO2 IN ERZURUM, TURKEY**  
TURALIOĞLU F. S., Kocaman O., BAYRAKTAR H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.20, no.10, pp.2526-2533, 2011 (SCI-Expanded)
- VII. **ELEMENTAL COMPOSITION OF PM10 AND PM2.5 IN ERZURUM URBAN ATMOSPHERE, TURKEY**  
BAYRAKTAR H., TURALIOĞLU F. S., TUNCEL S. G., ZARARSIZ A.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.20, no.5, pp.1124-1134, 2011 (SCI-Expanded)
- VIII. **A new approach for the estimation of immission loads under steady state conditions**

- BAYRAKTAR H.  
KSCE JOURNAL OF CIVIL ENGINEERING, vol.14, no.6, pp.823-827, 2010 (SCI-Expanded)
- IX. **Average mass concentrations of TSP, PM10 and PM2.5 in Erzurum urban atmosphere, Turkey**  
BAYRAKTAR H., TURALIOĞLU F. S., TUNCEL S. G.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.24, no.1, pp.57-65, 2010 (SCI-Expanded)
- X. **The Neural Network Modeling of Suspended Particulate Matter with Autoregressive Structure**  
BAYRAKTAR H., AKTAN M.  
Ekoloji, vol.19, pp.32-37, 2010 (SCI-Expanded)
- XI. **A Kriging-based approach for locating a sampling site - in the assessment of air quality**  
Bayraktar H., Turalioglu F. S.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.19, no.4, pp.301-305, 2005 (SCI-Expanded)
- XII. **Average areal sulphur dioxide concentration estimation by percentage weighting polygon method in Erzurum urban centre Turkey**  
BAYRAKTAR H., TURALIOĞLU F. S.  
Atmospheric Environment, vol.39, pp.5991-5999, 2005 (SCI-Expanded)
- XIII. **Impacts of some meteorological parameters on SO<sub>2</sub> and TSP concentrations in Erzurum Turkey**  
TURALIOĞLU F. S., NUHOĞLU A., BAYRAKTAR H.  
Chemosphere, 2005 (SCI-Expanded)
- XIV. **Impacts of some meteorological parameters on SO<sub>2</sub> and TSP concentrations in Erzurum, Turkey**  
TURALIOĞLU F. S., NUHOĞLU A., BAYRAKTAR H.  
CHEMOSPHERE, vol.59, no.11, pp.1633-1642, 2005 (SCI-Expanded)
- XV. **Composition of wet and bulk deposition in Erzurum, Turkey**  
BAYRAKTAR H., TURALIOĞLU F. S.  
CHEMOSPHERE, vol.59, no.11, pp.1537-1546, 2005 (SCI-Expanded)
- XVI. **Assessment of regional air pollution distribution by point cumulative semivariogram method at Erzurum urban center, TURKEY**  
TURALIOĞLU F. S., BAYRAKTAR H.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.19, no.1, pp.41-47, 2005 (SCI-Expanded)
- XVII. **The estimation of average areal rainfall by percentage weighting polygon method in the Southeastern Anatolia Region, Turkey**  
Bayraktar H., Turaliglu F., ŞEN Z.  
ATMOSPHERIC RESEARCH, vol.73, pp.149-160, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Analysis of Air Pollution in Bayburt Province with Statistical Methods**  
HIRCA T., TÜRKKAN G. E., BAYRAKTAR H.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.10, no.2, pp.685-699, 2022 (Peer-Reviewed Journal)
- II. **Atmosferik Polisiklik Aromatik Hidrokarbonlar (PAH'lar) Örnekleme, Ekstraksiyon ve Analiz**  
PALOLUOĞLU C., BAYRAKTAR H.  
Araştırma Makalesi Bayburt Üniversitesi Fen Bilimleri, vol.2, no.2, pp.266-285, 2019 (Peer-Reviewed Journal)
- III. **Atmosferik Poliklorlu Bifeniller (PCB'ler) Örnekleme, Ekstraksiyon ve Analiz**  
PALOLUOĞLU C., BAYRAKTAR H.  
Araştırma Makalesi Bayburt Üniversitesi Fen Bilimleri, vol.2, no.2, pp.205-224, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **PM<sub>2,5</sub>'LAR VE PM<sub>2,5</sub>'LARA BAĞLI AĞIR METALLERİN KONSANTRASYON VE**

## **KAREKTERİZASYONLARININ BELİRLENMESİNE YÖNELİK YENİLİKÇİ MÜHENDİSLİK YAKLAŞIMLARI**

PALOLUOĞLU C., BAYRAKTAR H., BAYAR S.

in: ÇEVRESEL PROBLEMLERİN ÇÖZÜMÜNDE YENİLİKÇİ YAKLAŞIMLAR III, Doç. Dr. Sinan KUL , Doç. Dr. İbrahim HAKKI KARAKAŞ, Editor, İksad Yayınevi, Ankara, pp.77-107, 2023

### **II. Çevre Kirliliği ve Arıcılık**

BAYRAKTAR H., KUL S.

in: Organik Arıcılık, Aksakal V ecihi, Erdoğan Yaşar, Kaya Yunus, Editor, Gündüz Ofset Matbaacılık, Trabzon, pp.97-104, 2019

## **Refereed Congress / Symposium Publications in Proceedings**

- I. Determination of Gas-Phase Mixtures (0-16 m) and Concentrations (pg m<sup>-3</sup>) of Atmospheric Organochlorial Pesticides (OCPs) by Passive Sampling Method with Height**  
PALOLUOĞLU C., BAYRAKTAR H.  
3RD INTERNATIONAL "ARTEMIS" CONGRESS ON LIFE, ENGINEERING, AND APPLIED SCIENCES, İzmir, Turkey, 25 - 27 March 2023, vol.1, pp.221-231
- II. DETERMINATION OF THE WET DEPOSITION FLUXES AND ATMOSPHERIC CONCENTRATIONS OF PCB'S WITH PASSIVE PRECIPITATION SAMPLER AND ACTIVE AIR SAMPLER AT ATATÜRK UNIVERSITY CAMPUS, A SEMI-URBAN AREA**  
PALOLUOĞLU C., BAYRAKTAR H., BAYAR S.  
International Symposium of Scientific Research and Innovative Studies, BANDIRMA, Turkey, 22 - 25 February 2021, pp.218-221
- III. YARI KENTSEL BİR ALAN OLAN ATATÜRK ÜNİVERSİTE KAMPÜSÜNDE PASİF YAĞIŞ ÖRNEKLEYİCİSİ VE AKTİF HAVA ÖRNEKLEYİCİSİ İLE PCB'LERİN YAŞ ÇÖKELME AKILARI VE ATMOSFERİK KONSANTRASYONLARININ BELİRLENMESİ**  
Paloluoğlu C., Bayraktar H., Bayar S.  
International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 - 25 February 2021, pp.218-219
- IV. Atmospheric Polycyclic Aromatic Hydrocarbons (PAHs)**  
PALOLUOĞLU C., BAYRAKTAR H.  
3rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21 September 2019, pp.1589-1594
- V. Atmospheric Polychlorinated Biphenyls**  
PALOLUOĞLU C., BAYRAKTAR H.  
3rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21 September 2019, pp.1582-1588
- VI. Indoor and outdoor gas phase polychlorinated biphenyls concentrations of a house in erzurum city center**  
BAYRAKTAR H.  
II International Conference on Advanced engineering technologies, 21 - 23 September 2017
- VII. Investigation of Polycyclic Aromatic Hydrocarbons sources by using positive matrix factorization method**  
BAYRAKTAR H.  
II. International Conference on advanced engineering technologies, 21 - 23 September 2017
- VIII. Hava Kirleticilerinin Rüzgâr Hızı ile Korelasyonu: Erzurum Örneği**  
BAYAR S., BAYRAKTAR H., ALPARSLAN H. T.  
VII.Ulusal Hava Kirliliği Ve Kontrolü Sempozyumu, Turkey, 1 - 03 November 2017
- IX. Air pollution and health effects A case study from Erzurum**  
BAYRAKTAR H., Bayraktar M.  
International Energy and engineering conference, 13 - 14 October 2016, pp.529-535

## X. Mühendislik ve Eğitim

BAYRAKTAR H.

Türkiye'de Üniversite Gerçeği ve Bayburt Üniversitesi Çalıştayı, Bayburt, Turkey, 12 - 13 November 2015

## XI. ERZURUM KENT MERKEZİNDE ISINMA KAYNAKLI PAH LARIN ATMOSFERİK KONSANTRASYONLARI

BAYRAKTAR H., CİHAN P., TURALIOĞLU F. S., GAGA E. E.

VII. Uluslararası Katılımlı Atmosfer Bilimleri Sempozyumu, 28 - 30 April 2015

## XII. POLİKLORLU BİFENİLLER PCB LER İN ERZURUM KENT ATMOSFERİNDE GÖZLENEN KONSANTRASYONLARI

BAYRAKTAR H., CİHAN p.

VII. Uluslararası Katılımlı Atmosfer Bilimleri Sempozyumu, 28 - 30 April 2015

## Supported Projects

BOZKURT F., BAYRAKTAR H., KUL S., YAĞANOĞLU M., KADİROĞLU T., GÜNAY F. B., KUL A., KASTALMIŞ M. F., ŞİMŞEK E., GÖLCÜGEZLİ T., Project Supported by Higher Education Institutions, Akıllı Kampüs Projesi için Bir Prototip Uygulama, 2021 - 2022

BAYRAKTAR H., Project Supported by Higher Education Institutions, ERZURUM ATMOSFERİNDE İKİNCİL KİRLİTİCİLERİN BELİRLENMESİ, 2015 - 2017

BAYRAKTAR H., Project Supported by Higher Education Institutions, KENTSEL ATMOSFERDE AKTİF VE PASİF ÖRNEKLEYİCİLER KULLANARAK PCB (POLİKLORLÜBİFENİLLER) KONSANTRASYONLARININ YATAY VE DİKEY DAĞILIMLARININ BELİRLENMESİ, 2014 - 2016

BAYRAKTAR H., TUBİTAK Project, Determination of the horizontal and vertical distribution of atmospheric polychlorinated biphenyls (PCB) Using active and passive samplers in urban atmosphere, 2013 - 2015

BAYRAKTAR H., Project Supported by Higher Education Institutions, "PASİF ÖRNEKLEYİCİ KULLANARAK POLİ KLORLU BİFENİLLERİN(PCB)DİKEY DAĞILIMININ ARAŞTIRILMASI", 2012 - 2013

BAYRAKTAR H., Project Supported by Higher Education Institutions, ERZURUM KENT ATMOSFERİNDE KALICI ORGANİK KİRLİTİCİLERİN (KOK)BELİRLENMESİ, 2011 - 2013

## Metrics

Publication: 34

Citation (WoS): 252

Citation (Scopus): 277

H-Index (WoS): 6

H-Index (Scopus): 7

## Congress and Symposium Activities

"Investigation of dry deposition fluxes of some traffic sourced metals by using surrogated snow Surface Sampler" with International Participation HKK2013 Symposium, Attendee, Turkey, 2013

Investigation of Polychlorinated Biphenyls (PCBs) in Erzurum Precipitation Samples", with International Participation HKK2013 Symposium, Attendee, Turkey, 2013

"Wet deposition of polycyclic aromatic hydrocarbons (PAHs): Acenaphthylene, Fluorene ve Phenanthrene's in Erzurum city atmosphere", ICOEST conf, Attendee, Nevşehir, Turkey, 2013

Investigation of dry deposition fluxes of traffic sourced PAHs by using surrogated snow Surface Sampler", with International Participation HKK2013 Symposium, Attendee, Eskişehir, Turkey, 2013

"Emissions of Gas- and Particle-Phase Polycyclic Aromatic Hydrocarbons (pahs) in Erzurum Urban Center, Turkey", Urban Environmental Pollution conference (UEP), Attendee, Amsterdam, Netherlands, 2012

Dry Deposition of Benzo [a] Pyrene in Erzurum Urban Center”, Urban Environmental Pollution conference (UEP), Attendee, Amsterdam, Netherlands, 2012

“Wet Deposition of Polycyclic Aromatic Hydrocarbons (PAHs) in Semi-Urban Atmosphere”, Air Quality Management 2012-IUAPPA Regional Conference, Attendee, İstanbul, Turkey, 2012

“Mass concentrations of TSP, PM10 and PM2.5 in Erzurum urban center, Turkey” Proceedings of the Third International Symposium on Air Quality Management at Urban,Regional and Global Scales., Attendee, İstanbul, Turkey, 2005

“A new approach for the allocation of sampling site in the assessment of air quality” CAPAC2005 1st International Conference on Air Pollution and Combustion”, Attendee, Turkey, 2005

“A comparison of Air Pollutant Emission and Imission Loads observed at Erzurum Urban Centre” CAPAC2005 1st International Conference on Air Pollution and Combustion”, Attendee, Ankara, Turkey, 2005

Atmospheric Deposition Of Sulphate And Nitrate On Soil/International Soil Congress (ISC) on “Natural Resource Management for Sustainable Development”, Attendee, Erzurum, Turkey, 2004

“Determination Of Lead And Cadmium In Roadside Soils In Erzurum City,” International Soil Congress (ISC) on “Natural Resource Management for Sustainable Development, Attendee, Turkey, 2004