

# Prof. BÜLENT OKTAY AKKOYUNLU

## Personal Information

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## International Researcher IDs

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## Education Information

Postgraduate, Marmara University, Faculty of Arts and Sciences, Physics, Turkey 2014 - 2018

Doctorate, Marmara University, Faculty of Arts and Sciences, Physics, Turkey 1993 - 2003

Undergraduate, Marmara University, Faculty of Arts and Sciences, Physics, Turkey 1981 - 1987

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Postgraduate, İşitilebilir, ultrasonik ve infrasonik dalgaların üretimi ve iç enerjisi, Marmara Üniversitesi, Faculty of Arts and Sciences, Physics, 1990

## Research Areas

Physics, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Arts and Sciences, Physics, 2013 - Continues

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Physics, 2009 - 2013

Research Assistant, Marmara University, Faculty of Arts and Sciences, Physics, 1994 - 2009

## Academic and Administrative Experience

Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Fizik (YI) (Tezli), 2018 - Continues

## Courses

Quantum mechanics, Undergraduate, 2019 - 2020  
introduction to Air Pollution, Undergraduate, 2018 - 2019  
Diferansiel Equations, Undergraduate, 2018 - 2019  
Physics for Mathemetics, Undergraduate, 2018 - 2019  
Physics, Undergraduate, 2018 - 2019  
Mekanik, Undergraduate, 2016 - 2017  
İstatiksel Fiziğe Giriş, Undergraduate, 2017 - 2018  
Linear Algebra, Undergraduate, 2017 - 2018  
Introduction to Atmospheric Physics, Postgraduate, 2017 - 2018  
Scientific English I, Undergraduate, 2017 - 2018  
Linear Algebra, Undergraduate, 2017 - 2018  
Atmosfer Fiziğine Giriş, Undergraduate, 2010 - 2011

## Advising Theses

Akkoyunlu B. O., THE SOURCES OF HIGH PM10 IN ISTANBUL AND EFFECT OF METEOROLOGICAL CONDITIONS ON HIGH PM10 CONCENTRATIONS, Postgraduate, Ç.Sinem(Student), Continues  
Akkoyunlu B. O., Sahra Çölü Tozlarının Türkiye'xye Taşınımının Atmosferik Mekanizmaları ve Solunum Sistemi Hastalıkları Üzerindeki Etkileri, Doctorate, H.Arslan(Student), Continues  
AKKOYUNLU B. O., Yağmur suyu ve atmosferik parçacıklardaki iyonların, iz elementlerin, escherichia coli ve enterococcus bakteri türlerinin incelenmesi, Postgraduate, T.FEYİZ(Student), 2016  
AKKOYUNLU B. O., Determination of the sources and scavenging coefficients of atmospheric particles, Postgraduate, M.BAHA(Student), 2016  
AKKOYUNLU B. O., Kırklareli'de yaş, bulk ve kuru birikim kompozisyonunun incelenmesi, Doctorate, İ.ORUÇ(Student), 2012  
AKKOYUNLU B. O., Ardışık yağmur örnekleme cihazının yapımı ve yağış kimyasının incelenmesi, Postgraduate, Y.Ercan(Student), 2011  
AKKOYUNLU B. O., Otomatik yaş-kuru birikim örnekleme cihazının tasarımı ve yaş-kuru birikimlerdeki iyon konsantrasyonunun meteorolojik şartlarla ilişkisi, Postgraduate, M.DEGİRMİ(Student), 2011  
AKKOYUNLU B. O., Yağış alt-olay örnekleme ve analiz ile bulut altı temizleme mekanizmasının incelenmesi, Postgraduate, Ö.GÜLABİ(Student), 2011

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

- I. **Simulation of the Jet Fire Using Atmospheric Dispersion Modeling (ALOHA): A Case Study of Natural Gas Pipeline in Istanbul, Türkiye**  
Besiktas R., Baltaci H., AKKOYUNLU B. O.  
Atmosphere, vol.15, no.4, 2024 (SCI-Expanded)
- II. **Long-term variations and synoptic features of heat waves in Turkiye**  
Baltaci H., Ozturk Y., AKKOYUNLU B. O.  
International Journal of Global Warming, vol.33, no.1, pp.51-68, 2024 (SCI-Expanded)
- III. **Recent Climate Change in Western Black Sea Region of Turkey by Paleoclimatic Reconstruction of Borehole Temperatures**  
Çelik B., ERKAN K., TAYANÇ M., Baltaci H., Akkoyunlu B., PAZVANTOĞLU E.  
Pure and Applied Geophysics, vol.180, no.10, pp.3607-3620, 2023 (SCI-Expanded)
- IV. **The effects of heatwaves on hospital admissions in the Edirne province of Turkey: A cohort study**  
Ozturk Y., Baltaci H., AKKOYUNLU B. O.  
Medicine, vol.102, no.28, 2023 (SCI-Expanded)
- V. **Analysis and sampling of atmospheric particles of precipitation sub-events in Istanbul, Turkey**

Bahauddin M., Oruc I., Baltaci H., Ozdemir H., AKKOYUNLU B. O.

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.7, pp.5985-5998, 2022 (SCI-Expanded)

- VI. **The sources and seasonal variations of the chemical components in the deposition samples in Kirklareli, Turkey**  
Oruc I., AKKOYUNLU B. O., Erdogan I.  
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.87, no.7-8, pp.953-967, 2022 (SCI-Expanded)
- VII. **High PM<sub>10</sub> source regions and their influence on respiratory diseases in Canakkale, Turkey**  
Baltaci H., Arslan H., Akkoyunlu B. O.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.2, pp.797-806, 2022 (SCI-Expanded)
- VIII. **Wet Deposition in the Cross-Border Region Between Turkey and Bulgaria: Chemical Analysis in View of Cyclone Paths**  
Oruc I., Georgieva E., Hristova E., Velchev K., Demir G., AKKOYUNLU B. O.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.106, no.5, pp.812-818, 2021 (SCI-Expanded)
- IX. **Surface heat flow in bestern Anatolia (Turkey) and implications to the thermal structure of the Gediz Graben**  
Balkan-Pazvantoglu E., ERKAN K., ŞALK M., AKKOYUNLU B. O., TAYANÇ M.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.30, pp.991-1007, 2021 (SCI-Expanded)
- X. **Seasonal variation of carbonaceous PM<sub>2.5</sub> in an Istanbul traffic site**  
Flores R. M., Ozdemir H., AKKOYUNLU B. O., Ünal A., TAYANÇ M.  
ATMOSPHERIC POLLUTION RESEARCH, vol.11, no.12, pp.2110-2118, 2020 (SCI-Expanded)
- XI. **Background atmospheric conditions of high PM<sub>10</sub> concentrations in Istanbul, Turkey**  
Baltaci H., Alemdar C. S. O., AKKOYUNLU B. O.  
ATMOSPHERIC POLLUTION RESEARCH, vol.11, no.9, pp.1524-1534, 2020 (SCI-Expanded)
- XII. **Black carbon and size-segregated elemental carbon, organic carbon compositions in a megacity: a case study for Istanbul**  
KUZU S. L., YAVUZ E., Akyüz E., SARAL A., AKKOYUNLU B. O., ÖZDEMİR H., Demir G., Ünal A.  
AIR QUALITY ATMOSPHERE AND HEALTH, vol.13, no.7, pp.827-837, 2020 (SCI-Expanded)
- XIII. **Long-term variability and trends of extended winter snowfall in Turkey and the role of teleconnection patterns**  
Baltaci H., Arslan H., AKKOYUNLU B. O., Gomes H. B.  
METEOROLOGICAL APPLICATIONS, vol.27, no.2, 2020 (SCI-Expanded)
- XIV. **A high-time resolution study of PM<sub>2.5</sub>, organic carbon, and elemental carbon at an urban traffic site in Istanbul**  
FLORES RANGEL R. M., Mertoglu E., ÖZDEMİR H., AKKOYUNLU B. O., Demir G., Ünal A., TAYANÇ M.  
ATMOSPHERIC ENVIRONMENT, vol.223, 2020 (SCI-Expanded)
- XV. **Wind speed variability and wind power potential over Turkey: Case studies for Çanakkale and İstanbul**  
Arslan H., Baltaci H., AKKOYUNLU B. O., Karanfil S., TAYANÇ M.  
Renewable Energy, vol.145, pp.1020-1032, 2020 (SCI-Expanded)
- XVI. **The influence of meteorological conditions and atmospheric circulation types on PM<sub>10</sub> levels in western Turkey**  
Baltaci H., AKKOYUNLU B. O., Arslan H., Yetemen O., Ozdemir E. T.  
Environmental Monitoring and Assessment, vol.191, no.7, 2019 (SCI-Expanded)
- XVII. **Atmospheric conditions of extreme precipitation events in western Turkey for the period 2006-2015**  
AKKOYUNLU B. O., Baltaci H., TAYANÇ M.  
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.19, no.1, pp.107-119, 2019 (SCI-Expanded)
- XVIII. **Relationships between teleconnection patterns and Turkish climatic extremes**  
Baltaci H., Akkoyunlu B. O., Tayanc M.

- THEORETICAL AND APPLIED CLIMATOLOGY, vol.134, pp.1365-1386, 2018 (SCI-Expanded)
- XIX. **An Extreme Hailstorm on 27 July 2017 in Istanbul, Turkey: Synoptic Scale Circulation and Thermodynamic Evaluation**  
Baltaci H., AKKOYUNLU B. O., TAYANÇ M.  
PURE AND APPLIED GEOPHYSICS, vol.175, no.11, pp.3727-3740, 2018 (SCI-Expanded)
- XX. **A portable borehole temperature logging system using the four-wire resistance method**  
ERKAN K., Akkoyunlu B., BALKAN E., TAYANÇ M.  
JOURNAL OF GEOPHYSICS AND ENGINEERING, vol.14, no.6, pp.1413-1419, 2017 (SCI-Expanded)
- XXI. **DESIGN AND CONSTRUCTION OF A COMPUTER CONTROLLED AUTOMATIC SEQUENTIAL RAIN SAMPLER**  
AKKOYUNLU B. O., DOĞRUEL M., TAYANÇ M., Oruc I.  
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.27, no.3, pp.3890-3895, 2013 (SCI-Expanded)
- XXII. **Four storms with sub-events: Sampling and analysis**  
Akkoyunlu B. O., TAYANÇ M.  
ENVIRONMENT INTERNATIONAL, vol.34, no.5, pp.606-612, 2008 (SCI-Expanded)
- XXIII. **Analyses of wet and bulk deposition in four different regions of Istanbul, Turkey**  
Akkoyunlu B. O., Tayanc M.  
ATMOSPHERIC ENVIRONMENT, vol.37, no.25, pp.3571-3579, 2003 (SCI-Expanded)
- XXIV. **Composition of wet deposition in Kaynarca, Turkey**  
Okay C., Akkoyunlu B. O., Tayanc M.  
ENVIRONMENTAL POLLUTION, vol.118, no.3, pp.401-410, 2002 (SCI-Expanded)

### Articles Published in Other Journals

- I. **The Impacts of Heat Waves on Hospital Admissions and Mortality in the Fethiye Province of Turkey**  
Ozturk Y., Baltaci H., AKKOYUNLU B. O.  
Portuguese Journal of Public Health, vol.41, no.2, pp.94-101, 2023 (Scopus)
- II. **Design and Construction of Atmospheric Particle Sampling System by Unmanned Aerial Vehicle**  
Akkoyunlu B. O., Oruç İ., Alpman E., Doğan B., Baltacı H.  
International journal of advances in engineering and pure sciences (Online), vol.33, no.1, pp.90-96, 2021 (Peer-Reviewed Journal)
- III. **Chemical Analysis of Wet Deposition Sequential Samples at Istanbul, Turkey**  
ORUÇ İ., AKKOYUNLU B. O., DOĞRUEL M., TAYANÇ M.  
International Journal of Engineering Research and Development, 2018 (Peer-Reviewed Journal)
- IV. **Ion Concentrations And Sources Of Sequential Sampling Of Wet Deposition In Istanbul, Turkey**  
ORUÇ İ., AKKOYUNLU B. O., DOĞRUEL M., TAYANÇ M.  
Uluslararası Muhendislik Arastirma ve Gelistirme Dergisi, vol.9, no.2, pp.131-136, 2017 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **An Extreme Hailstorm on 27 July 2017 in Istanbul, Turkey: Synoptic Scale Circulation and Thermodynamic Evaluation.**  
Akkoyunlu B. O.  
in: Meteorology and Climatology of the Mediterranean and Black Seas, Dr. Ivica Vilibić, Kristian Horvath, José Luis Palau., Editor, Springer, London/Berlin , Amsterdam, pp.7-20, 2019

### Refereed Congress / Symposium Publications in Proceedings

- I. **Surface Heat Flow in Western Anatolia (Turkey) and implications to the thermal structure of the Gediz Graben**  
PAZVANTOĞLU E., ERKAN K., TAYANÇ M., AKKOYUNLU B. O., ŞALK M.  
International Workshop On Geothermal Energy For Sustainable Development, 08 December 2021
- II. **Black Carbon Evaluation in an Urban Side of Istanbul Atmosphere during Spring and Summer Seasons**  
KUZU S. L., YAVUZ E., AKYÜZ E., SARAL A., AKKOYUNLU B. O., Özdemir H.  
18th World Clean Air Congress, İstanbul, Turkey, 23 - 27 September 2019, vol.1, pp.483-491
- III. **Ion composition of the daily PM10 samples collected at Kırklareli Turkey**  
Çetin B., Saka E. H., Cicerali M. F., ORUÇ H. N., FLORES RANGEL R. M., AKKOYUNLU B. O., TAYANÇ M.  
18th World Clean Air Congress, 23 - 27 September 2019, pp.72
- IV. **A study of metallic composition in the daily PM2.5 samples at Kırklareli, Turkey**  
Akkoyunlu B. O.  
18th World Clean Air Congress, 23-27 September 2019, İstanbul, İstanbul, Turkey, 23 - 27 September 2019, pp.431
- V. **SEASONALITY OF PM2.5 AND ITS ORGANIC FRACTION IN A TRAFFIC SITE IN BEŞİKTAŞ, İSTANBUL**  
Akkoyunlu B. O.  
18th World Clean Air Congress, İstanbul, Turkey, 23-27 September 2019, İstanbul, Turkey, 23 - 27 September 2019, pp.25
- VI. **Seasonality of PM 2.5 and its organic fraction in a traffic site in Besiktas, İstanbul**  
FLORES RANGEL R. M., MERTOĞLU E., ÖZDEMİR H., AKKOYUNLU B. O., ÜNAL A., TAYANÇ M.  
18th World Clean Air Congress 2019, 23 - 27 September 2019
- VII. **DISTRIBUTION OF SVOCs IN FINE AND COARSE PARTICULATE MATTER IN A TRAFFIC SITE IN THE MEGACITY OF İSTANBUL**  
Akkoyunlu B. O.  
18th World Clean Air Congress, İstanbul, Turkey, 23-27 September 2019, İstanbul, Turkey, 23 - 27 September 2019, pp.24
- VIII. **BLACK CARBON EVALUATION IN URBAN SIDE OF İSTANBUL ATMOSPHERE DURING SPRING AND SUMMER SEASON**  
Akkoyunlu B. O.  
18th World Clean Air Congress, İstanbul, Turkey, 23-27 September 2019, İstanbul, Turkey, 23 - 27 September 2019, pp.74
- IX. **ION COMPOSITION OF THE DAILY PM10 SAMPLES COLLECTED AT KIRKLARELI TURKEY**  
Akkoyunlu B. O.  
18th World Clean Air Congress, İstanbul, Turkey, 23-27 September 2019, İstanbul, Turkey, 23 - 27 September 2019, pp.72
- X. **A STUDY OF METALIC COMPOSITION IN THE DAILY PM2.5 SAMPLES AT KIRKLARELI, TURKEY**  
N ORUÇ H., ÖZDEMİR H., FLORES RANGEL R. M., SEZEN İ., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
18th WORLD CLEAN AIR CONGRESS 2019, 23 - 27 September 2019
- XI. **The Impacts of PM10 and SO2 Concentrations on Hospital Admissions for Pneumonia and Chronic Obstructive Pulmonary Disease in Canakkale, Turkey**  
BALTACI H., ARSLAN H., AKKOYUNLU B. O.  
The 32nd European Meeting of Statisticians (EMS), Palermo, Italy, 22 - 26 July 2019
- XII. **The Role of Atmospheric Processes Associated With a Flash-Flood Event Over Northwestern Turkey**  
BALTACI H., AKKOYUNLU B. O., ARSLAN H.  
12th HyMeX International Workshop, Split, Croatia, 20 - 23 May 2019
- XIII. **Diurnal and seasonal variations of primary and secondary organic carbon at an urban traffic site in İstanbul**  
FLORES RANGEL R. M., Mertoglu E., Pursa A., Özdemir H., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
European Geophysical Union General Assembly 2019, 7 - 12 April 2019
- XIV. **Spatiotemporal Variability and Trends of Snowfall in Turkey**  
BALTACI H., AKKOYUNLU B. O., TAYANÇ M.

11th International Statistics Days Conference, Muğla, Turkey, 3 - 07 October 2018, pp.279

- XV. **DISTRIBUTION OF SVOCs IN FINE AND COARSE PARTICULATE MATTER IN A TRAFFIC SITE IN THE MEGACITY OF ISTANBU**  
FLORES RANGEL R. M., Özdemir H., AKKOYUNLU B. O., ÜNAL A., TAYANÇ M.  
18th World Clean Air Congress, Istanbul, Turkey, 23-27 September 2019, 23 September - 27 January 2019
- XVI. **The Influence of Weather-Type on PM10 Levels in Western Turkey**  
BALTACI H., AKKOYUNLU B. O., TAYANÇ M.  
1st Eurasia Environmental Chemistry Congress, Antalya, Turkey, 1 - 04 November 2018, pp.38
- XVII. **Study of Particulate Matter in Kırklareli, Turkey with Meteorological Factors**  
FLORES RANGEL R. M., özdemir h., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 November 2018
- XVIII. **PM 2.5 Analysis and the Determination of PAH Constituents at a Densely Populated Area of Istanbul**  
FLORES RANGEL R. M., özdemir h., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 November 2018
- XIX. **PM2.5 Analysis and the Determination of PAH Constituents at a Densely Populated Area of Istanbul**  
FLORES RANGEL R. M., ÖZDEMİR H., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 November 2018
- XX. **Characterization of Semi-Volatile Organic Compounds in Fine Atmospheric Particles**  
Mertoglu E., FLORES RANGEL R. M., Pursa A., Özdemir H., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
3rd International Mediterranean Science and Engineering Congress, 24 - 26 October 2018
- XXI. **EGE BÖLGESİNDE JEOTERMAL GRADYAN DAĞILIMI**  
BALKAN E., ERKAN K., ŞALK M., AKKOYUNLU B. O., TAYANÇ M.  
ULUSLARARASI KATILIMLITÜRKİYE ULUSAL JEODEZİ VE JEOFİZİK BİRLİĞİ BİLİMSEL KONGRESİ, İzmir, Turkey, 30 May - 02 June 2018
- XXII. **Diurnal Variation of Semi-Volatile Organic Compounds associated to PM2.5 in a traffic-influenced area in Istanbul**  
FLORES RANGEL R. M., Nafie Y., Mertoglu E., Özdemir H., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
European Geophysical Union General Assembly 2018, 8 - 13 April 2018
- XXIII. **ISI AKISI ÖLÇÜMLERİ İLE ORTA ANADOLU'DA ÖRTÜLÜ JEOTERMAL SAHALARIN BELİRLENMESİ**  
ERKAN K., BALKAN E., AKKOYUNLU B. O., TAYANÇ M.  
V. Jeotermal Kaynaklar ve Doğal Mineralli Sular Sempozyumu ve Sergisi, Afyon, Turkey, 21 - 24 February 2018
- XXIV. **INVESTIGATION OF CLIMATE CHANGE IN TURKEY BY FOURIER HARMONICS**  
AKKOYUNLU B. O., BALTACI H., DOĞRUEL M., TAYANÇ M.  
1st International Turkish World Engineering and Science Congress, 7 - 10 December 2017
- XXV. **Türkiye'de Güncel İklim Değişikliği**  
TAYANÇ M., Eren E., Aydın Y., Baltacı H., GÖKTÜRK O. M., ERKAN K., AKKOYUNLU B. O.  
VII. Ulusal Hava Kirliliği ve Kontrolü Sempozyumu, Antalya, Turkey, 1 - 03 November 2017
- XXVI. **DEVELOPMENT OF A DIGITAL DATA TRANSMISSION PORTABLE BOREHOLE TEMPERATURE LOGGING SYSTEM FOR CLIMATOLOGICAL AND GEOTHERMAL STUDIES**  
ERKAN K., DOĞRUEL M., AKKOYUNLU B. O., BAYAT F. K., ŞİŞMAN A., BALKAN E., TAYANÇ M.  
The 9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 November 2017
- XXVII. **DEVELOPMENT OF A DIGITAL DATA TRANSMISSION PORTABLE BOREHOLE TEMPERATURE LOGGING SYSTEM FOR CLIMATOLOGICAL AND GEOTHERMAL STUDIES**  
Akkoyunlu B. O.  
9th International Symposium on Image Processing, Wavelet and Applications, İstanbul, Turkey, 5 - 08 November 2017, pp.42
- XXVIII. **HARMONIC ANALYSIS OF TURKISH CLIMATIC SERIES**  
Akkoyunlu B. O.  
9th International Symposium on Image Processing, Wavelet and Applications, 5-8 November 2017, Kars-Turkey, İstanbul, Turkey, 5 - 08 November 2017, pp.41
- XXIX. **TURKIYE'DE GUNCEL IKLİM DEĞİŞİKLİĞİ**

- TAYANÇ M., EREN E., DİKMEN AYDIN Y., BALTACI H., GÖKTÜRK O. M., ERKAN K., AKKOYUNLU B. O.  
VII. ULUSAL HAVA KİRLİLİĞİ VE KONTROLÜ SEMPOZYUMU, Antalya, Turkey, 1 - 03 November 2017, pp.17-23
- XXX. **STATISTICAL ANALYSIS OF TEMPERATURE AND PRECIPITATION SERIES OF TURKEY**  
TAYANÇ M., AKKOYUNLU B. O., ERKAN K.  
9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 November 2017
- XXXI. **STATISTICAL EVALUATION AND WAVELET ANALYSIS OF WIND SPEED**  
TAYANÇ M., ERKAN K., AKKOYUNLU B. O., BALTACI H.  
9th International Symposium on Image Processing, Wavelet and Applications, 5 - 08 November 2017
- XXXII. **YERALTI SICAKLIK KAYITLARINA GÖRE BATI ANADOLU'DA SONYÜZYILDA İKLİM DEĞİŞİKLİĞİ**  
ERKAN K., AKKOYUNLU B. O., DOĞRUEL M., İnal M. o., BALKAN E., TAYANÇ M.  
VII. ULUSAL HAVA KİRLİLİĞİ VE KONTROLÜ SEMPOZYUMU, Antalya, Turkey, 1 - 03 November 2017
- XXXIII. **EVALUATION OF A THERMAL DESORPTION METHOD FOR COMPLETE CHARACTERIZATION OF ORGANIC AEROSOLS**  
GÖK A. E., FLORES RANGEL R. M., ÖZDEMİR H., AKKOYUNLU B. O., DEMİR G., ÜNAL A., TAYANÇ M.  
8th Atmospheric Sciences Symposium, 1 - 04 November 2017
- XXXIV. **Semi-volatile Organic Aerosol Composition in High-Time Resolved Ambient Air PM<sub>2.5</sub> Samples: Preliminary Results**  
Gök A., FLORES RANGEL R. M., ÖZDEMİR H., AKKOYUNLU B. O., DEMİR G., TAYANÇ M.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 May 2017, pp.2998
- XXXV. **The Relationship between Climate Extremes and Teleconnection Patterns over Turkey**  
Hacı T., Baltacı H., AKKOYUNLU B. O., TAYANÇ M.  
International Sustainability Congress, 1-3 December 2016, 1 - 03 December 2016
- XXXVI. **Determination of Total Airborne Bacterial and Escherichia coli in the Rain Water**  
SESAL N. C., feyiz t., AKKOYUNLU B. O., DEMİR G.  
8th International Conference on Image Processing, Wavelet and Applications IWW2016, 22 - 24 September 2016
- XXXVII. **Climate Classification by Signal Processing A Case Study for Turkey**  
AKKOYUNLU B. O., DOĞRUEL M., TAYANÇ M.  
8th International Conference on Image Processing, Wavelet and Applications (IWW2016), İstanbul, Turkey, 22 - 24 September 2016
- XXXVIII. **Fourier Transform of Temperature Series in Detecting Climate Change**  
AKKOYUNLU B. O., DOĞRUEL M., TAYANÇ M.  
8th International Conference on Image Processing, Wavelet and Applications (IWW2016), İstanbul, Turkey, 22 - 24 September 2016
- XXXIX. **20th Century Climatic Changes in Western Turkey from Borehole Climatologic Records**  
ERKAN K., TAYANÇ M., AKKOYUNLU B. O., DOĞRUEL M., İnal M. O., BALKAN E.  
8th International Conference on Image Processing, Wavelet and Applications (IWW2016), İstanbul, Turkey, 22 - 24 September 2016
- XL. **20th century climate changes in western Turkey from borehole climatologic records**  
ERKAN K., TAYANÇ M., AKKOYUNLU B. O., DOĞRUEL M., İnal M. O., BALKAN E.  
International Conference on Image Processing, Wavelet and Applications, 22 - 24 September 2016
- XLI. **Development of a Digital Output Temperature Probe for Precision Measurements**  
ERKAN K., DOĞRUEL M., BAYAT F. K., AKKOYUNLU B. O., TAYANÇ M., BALKAN E., SAVAŞ H.  
Geothermal Resources Council Annual Meeting, 20 - 23 September 2015
- XLII. **INVESTIGATION OF WET, BULK, AND DRY DEPOSITION CONCENTRATIONS IN KIRKLARELI, TURKEY**  
Oruc I., AKKOYUNLU B. O., ERDOĞAN İ.  
13th International Multidisciplinary Scientific Geoconference, SGEM 2013, Albena, Bulgaria, 16 - 22 June 2013, pp.683-688
- XLIII. **CHEMICAL COMPOSITION OF WET, BULK, AND DRY DEPOSITION IN KIRKLARELI, TURKEY**  
Oruc I., AKKOYUNLU B. O., ERDOĞAN İ.  
13th International Multidisciplinary Scientific Geoconference, SGEM 2013, Albena, Bulgaria, 16 - 22 June 2013, pp.559-563

- XLIV. THE CHEMISTRY OF WET DEPOSITION FLUX IN ISTANBUL, TURKEY**  
AKKOYUNLU B. O., Oruc I., TAYANÇ M.  
11th International Multidisciplinary Scientific GeoConference, Albena, Bulgaria, 20 - 25 June 2011, pp.1255-1257
- XLV. A STUDY OF WET DEPOSITION FLUX USING THE SEQUENTIAL SAMPLING TECHNIQUE**  
AKKOYUNLU B. O., Degirmi M., Oruc I., TAYANÇ M.  
11th International Multidisciplinary Scientific GeoConference, Albena, Bulgaria, 20 - 25 June 2011, pp.1135-1137
- XLVI. DESIGN AND MANUFACTURE OF AN AUTOMATIC SEQUENTIAL RAIN SAMPLER: TESTING WITH SUB-EVENTS**  
AKKOYUNLU B. O., Tayanc M., DOĞRUDEL M., Oruc I.  
8th International Scientific Conference on Modern Management of Mine Producing, Geology and Environmental Protection, Sofija, Bulgaria, 16 - 20 June 2008, pp.637-639
- XLVII. Modeling of Industrial SO<sub>2</sub> Emissions and Tubras Fire Released During 1999 Earthquake in Gebze-Koceli Turkey.**  
AKKOYUNLU B. O., TAYANÇ M.  
13th World Clean Air and Environmental Protection Congress and Exhibition, 22 - 27 August 2004
- XLVIII. Statistical Analyses of Wet and Bulk Deposition on Different Regions of Istanbul Turkey**  
AKKOYUNLU B. O., TAYANÇ M.  
13th World Clean Air and Environmental Protection Congress and Exhibition, 22 - 27 August 2004
- XLIX. Investigation of the Variability SO<sub>2</sub> and PM in the Large City of Turkey.**  
AKKOYUNLU B. O., TAYANÇ M., GARİPAĞAOĞLU N.  
International Technical Meeting on Air Pollution Modeling and Its Applications., 28 - 30 May 2003
- L. ANALYSIS OF WET AND BULK DEPOSITION IN FOUR DIFFERENT REGIONS OF ISTANBUL, TURKEY**  
AKKOYUNLU B. O., TAYANÇ M.  
", AGRO-ENVIRON 2002, 3RD INTERNATIONAL SYMPOSIUM ON SUSTAINABLE AGRO-ENVIRONMENTAL SYSTEMS: NEW TECHNOLOGIES AND APPLICATIONS, CAIRO, EGYPT, 26-29 OCTOBER (2002) , 107., 26 - 29 October 2002

## Activities in Scientific Journals

International journal of advances in engineering and pure sciences (Online), Editor, 2018 - Continues

## Scientific Refereeing

TUBITAK Project, 1000 - Üniversitelerin Araştırma ve Geliştirme Potansiyelinin Arttırılmasına Yönelik Destek Programı, Turkey, December 2017

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, January 2014

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2013

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Marmara University, Turkey, November 2013

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Fatih University, Turkey, July 2012

## Tasks In Event Organizations

Akkoyunlu B. O., 9th International Syposium on Image Processing, Wavelet and Application., Scientific Congress, Kars, Turkey, Kasım 2017

Akkoyunlu B. O., 8th International Conference on Image Processing, Wavelet and Application., Scientific Congress, İstanbul,



Turkey, Eylül 2016

## Metrics

Publication: 79

Citation (WoS): 226

Citation (Scopus): 244

H-Index (WoS): 7

H-Index (Scopus): 8

## Congress and Symposium Activities

Investigation of Climate Change in Turkey by Fourier Harmonics , Attendee, Antalya, Turkey, 2017

TÜRKİYE'DE GÜNCEL İKLİM DEĞİŞİKLİĞİ, Attendee, Antalya, Turkey, 2017

TÜRKİYE'DE SON YARIM ASIRDAKİ İKLİM DEĞİŞİKLİĞİ, Attendee, Antalya, Turkey, 2017

YERALTI SICAKLIK KAYITLARINA GÖRE BATI ANADOLU'DA SON YÜZYILDA İKLİM DEĞİŞİKLİĞİ, Attendee, Antalya, Turkey, 2017

EVALUATION OF A THERMAL DESORPTION METHOD FOR COMPLETE CHARACTERIZATION OF ORGANIC AEROSOLS, Attendee, İstanbul, Turkey, 2017

Semi-volatile Organic Aerosol Composition in High-Time Resolved Ambient Air PM2.5 Samples: Preliminary Results, Attendee, Nevşehir, Turkey, 2017

20TH CENTURY CLIMATIC CHANGES IN WESTERN TURKEY FROM BOREHOLE CLIMATOLOGIC RECORDS, Attendee, İstanbul, Turkey, 2016

DETERMINATION OF TOTAL AIRBORNE BACTERIAL AND ESCHERCHIA COLI IN THE RAIN WATER, Attendee, İstanbul, Turkey, 2016

FOURIER TRANSFORM OF TEMPERATURE SERIES IN DETECTING CLIMATE CHANGE, Attendee, İstanbul, Turkey, 2016

DETERMINATION OF THE SOURCES AND SCAVENGING COEFFICIENTS OF ATMOSPHERIC PARTICLES, Attendee, İstanbul, Turkey, 2016

CLIMATE CLASSIFICATION BY SIGNAL PROCESSING: A CASE STUDY FOR TURKEY, Attendee, İstanbul, Turkey, 2016

ANALYSIS OF WET, BULK AND DRY DEPOSITION CHEMISTRY IN KIRKLARELİ, TURKEY, Attendee, Gabrovo, Bulgaria, 2012

ANALYSIS OF WET, BULK AND DRY DEPOSITION CHEMISTRY IN KIRKLARELİ, TURKEY, Attendee, Gabrovo, Bulgaria, 2012

COMPARISON OF WET, BULK AND DRY DEPOSITION BETWEEN URBAN AND RURAL REGIONS OF KIRKLARELİ, TURKEY, Attendee, Dubai, United Arab Emirates, 2011

A STUDY OF SEQUENTIAL RAIN SAMPLING IN ISTANBUL, TURKEY, Attendee, Gabrovo, Bulgaria, 2011

A STUDY OF WET DEPOSITION FLUX USING THE SEQUENTIAL SAMPLING TECHNIQUE, Working Group, Varna, Bulgaria, 2011

THE CHEMISTRY OF WET DEPOSITION FLUX IN ISTANBUL, TUR, Attendee, Varna, Bulgaria, 2011

SGEM 2008: 8TH INTERNATIONAL SCIENTIFIC CONFERENCE" "DESIGN AND MANUFACTURE OF AN AUTOMATIC SEQUENTIAL RAIN SAMPLER: TESTING WITH SUB-EVENTS, Attendee, Sofija, Bulgaria, 2008

FOUR STORMS WITH SUB-EVENTS: SAMPLING AND ANALYSIS, Working Group, İstanbul, Turkey, 2005

STATISTICAL ANALYSIS OF THE WET AND BULK DEPOSITION OF İSTANBUL, TURKEY, Attendee, İstanbul, Turkey, 2004

MODELING OF INDUSTRIAL SO2 EMISSIONS AND TUBRAŞ FIRE RELEASES DURING 1999 EARTHQUAKE IN GEBZE-KOCAELİ, TURKEY, Attendee, İstanbul, Turkey, 2004

INVESTIGATION OF THE VARIABILITY OF SO2 AND PM IN THE LARGE CITIES OF TURKEY, Attendee, Kallithea, Greece, 2003

ANALYSIS OF WET AND BULK DEPOSITION IN FOUR DIFFERENT REGIONS OF İSTANBUL, Working Group, Cairo, Egypt, 2002

ANALYSES AND SOURCE DETERMINATION OF CHEMICAL DEPOSITION IN FIVE DIFFERENT REGIONS OF ISTANBUL, TURKEY, Working Group, Kallithea, Greece, 2002

ANALYSES AND SOURCE DETERMINATION OF CHEMICAL DEPOSITION IN FIVE DIFFERENT REGIONS OF ISTANBUL, TURKEY, Working Group, Athens, Greece, 2002

ANALYSES OF BULK AND SUB-EVENT WET DEPOSITION IN GEBZE, Working Group, İstanbul, Turkey, 2001

## **Non Academic Experience**

Marmara Üniversitesi Fen Edebiyat Fakültesi