

## Prof. EDİP BAYRAM

### Personal Information

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**Address:** Akdeniz Üniversitesi Fen Fakültesi Kimya Bölümü 07058 Konyaaltı/Antalya

### International Researcher IDs

ORCID: 0000-0001-9800-7451

Publons / Web Of Science ResearcherID: C-1917-2016

Yoksis Researcher ID: 120174

### Education Information

Doctorate, Akdeniz University, Institute of Science, Kimya, Turkey 2005 - 2011

Postgraduate, Akdeniz University, Institute of Science, Kimya, Turkey 2002 - 2005

Undergraduate, Akdeniz University, Fen Edebiyat Fakültesi, Kimya, Turkey 1997 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Kozmetik Üretim Yöntemleri, Fen Fakültesi, 2010

Education Management and Planning, Biyosensörler, Fen Fakültesi, 2009

### Dissertations

Doctorate, Atık sularında bulunabilen bazı organik bileşiklerin Aktif Karbon Kumaş elektrotu kullanarak sulu çözeltilerden elektrosorpsiyon yolu ile uzaklaştırılmasının incelenmesi, Akdeniz University, Institute of Science, Kimya, 2011

Postgraduate, Atık sularında kirletici olarak bulunabilen bazı ftalik asit esterlerinin adsorpsiyon yoluyla uzaklaştırılmasının incelenmesi, Akdeniz University, Institute of Science, Kimya, 2005

### Research Areas

Chemical Engineering and Technology, Chemical Technologies, Electrochemical Processes, Metallurgical and Materials Engineering, Material science and engineering, Material Characterization, Nanomaterials, Chemistry, Analytical Chemistry, Spectroscopical Methods, Surface Analysis, Physical Chemistry, Electrochemistry, Fuel Cells, Inorganic Chemistry, Catalysis, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Chemistry, 2024 - Continues  
Associate Professor, Akdeniz University, Faculty of Science, Department of Chemistry, 2017 - 2024  
Assistant Professor, Akdeniz University, Faculty of Science, Department of Chemistry, 2011 - 2017  
Research Assistant, Akdeniz University, Institute of Science, Kimya, 2005 - 2011

## Academic and Administrative Experience

Assistant Director of the Institute, Akdeniz University, Institute of Science, 2022 - Continues  
Akdeniz University, Teknoloji Uygulama Ve Arařtırma Merkezi, 2019 - Continues  
Akdeniz University, Institute of Science, 2017 - Continues  
BAP Subcommittee Member, Akdeniz University, Faculty Of Science, Department of Chemistry, 2017 - 2022

## Courses

### Doctorate

Electrochemical Energy Storage Systems, Doctorate, 2022 - 2023

### Postgraduate

Elektroanalitik Analiz Yöntemleri, Postgraduate, 2012 - 2013

### Undergraduate

Kimya, Undergraduate, 2021 - 2022

Genel Kimya I, Undergraduate, 2021 - 2022

Organik Kimya, Undergraduate, 2021 - 2022, 2015 - 2016

Çevre Kimyası, Undergraduate, 2013 - 2014

Kimya, Undergraduate, 2013 - 2014

Analitik Kimya, Undergraduate, 2013 - 2014

Genel Kimya, Undergraduate, 2012 - 2013

Analitik Kimya, Undergraduate, 2012 - 2013

Su Kalitesi, Undergraduate, 2011 - 2012

## Supervised Theses

Bayram E., KARAMAN C., Heteroatom Katkılanmış Grafen Temelli Anot İçeren Yeni Nesil Sodyum İyon Pillerin Üretimi ve Performanslarının İncelenmesi, Doctorate, A.İhsan(Student), 2024

Bayram E., HETEROATOM-DOPED GRAPHENE SYNTHESIS, CHARACTERIZATION AND INVESTIGATION OF ENERGY STORAGE AND CONVERSION APPLICATIONS, Doctorate, Ç.KIZIL(Student), 2022

BAYRAM E., Heteroatom ile Katkılanmış Grafen Temelli Elektrotların Üretimi ve Lityum İyon Pillerde Anot Performanslarının İncelenmesi, Postgraduate, Z.Kuru(Student), 2021

BAYRAM E., Heteroatom Katkılanmış Grafenin Li-Hava Pillerinde Katot Olarak Kullanılabilirliğinin Araştırılması, Postgraduate, A.Beysi(Student), 2021

BAYRAM E., Yüksek enerji yoğunluğu gerektiren uygulamalar için grafen temelli monolit elektrotların üretimi, karakterizasyonu ve potansiyel uygulama alanlarının incelenmesi, Doctorate, C.Karaman(Student), 2020

BAYRAM E., Gıdalarda Bulunabilecek Bazı Pestisitlerin Bozunma Ürünlerinin Belirlenmesi İçin Metot Geliştirilmesi ve Metodun Validasyonu, Postgraduate, Ç.KIZIL(Student), 2016

## Jury Memberships

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, December, 2023

Competition, 6. Antalya Kimya Olimpiyatı Mayıs-2023, Akdeniz Üniversitesi, May, 2023  
Doctorate, Doctorate, Akdeniz Üniversitesi, December, 2022  
Doctorate, Doctorate, Akdeniz Üniversitesi, February, 2022  
Post Graduate, Post Graduate, Akdeniz Üniversitesi, February, 2021  
Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, June, 2019  
Academic Staff Examination, Academic Staff Examination, Akdeniz Üniversitesi, February, 2019  
Doctorate, Doctorate, Akdeniz Üniversitesi, September, 2016  
Doctorate, Doctorate, Akdeniz Üniversitesi, September, 2016  
Competition, I. Antalya Kimya olimpiyatları, Bilim Kurulu Üyeliği, Akdeniz Üniversitesi, April, 2016  
Post Graduate, Fotoaktivasyon Analiz Yöntemi ile Antik Sikkelerin Element Konsantrasyonlarının Belirlenmesi, Akdeniz Üniversitesi, July, 2015  
Doctorate, Fotoaktivasyon yöntemi ile kum numunelerinin elementel analizi ve fotofisyon ürünlerinin belirlenmesi, Akdeniz Üniversitesi, June, 2015  
Post Graduate, Tez Savunma Jürisi, Akdeniz Üniversitesi, July, 2013  
Competition, İlköğretim Proje Yarışması, TÜBİTAK, April, 2012  
Appointment to Academic Staff-Assistant Professorship, Akademik Kadro jürisi, Akdeniz Üniversitesi, March, 2012

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

- I. **Preparation of Nitrogen-Doped Graphene with Hollow Nano-Hemispheres from Fe<sub>3</sub>O<sub>4</sub>@Fe-N-GN: Towards High Capacity and Durable Anode for Li-Ion Batteries by Chemical Modifications**  
BAYRAM E., Sungur B.  
ChemElectroChem, vol.10, no.19, 2023 (SCI-Expanded)
- II. **Scalable synthesis of nitrogen and nitrogen-silicon co-doped graphene: SiC<sub>4</sub> and SiN<sub>1</sub>C<sub>3</sub> as new active centers for boosting ORR performance**  
Sungur B., Kızıl Ç., BAYRAM E.  
International Journal of Hydrogen Energy, vol.48, no.46, pp.17512-17525, 2023 (SCI-Expanded)
- III. **Electrosorptive disinfection of Escherichia coli (E. coli) aqueous solutions by activated carbon monolith electrodes**  
BAYRAM E., KARAMAN C., Kuru Z., KARAMAN O.  
WATER SUPPLY, vol.21, no.1, pp.157-165, 2021 (SCI-Expanded)
- IV. **Yield and bioethanol productivity of sorghum under surface and subsurface drip irrigation**  
Aydinsakir K., BÜYÜKTAŞ D., Dinc N., Erdurmus C., BAYRAM E., Yegin A. B.  
AGRICULTURAL WATER MANAGEMENT, vol.243, 2021 (SCI-Expanded)
- V. **Preparation of high surface area nitrogen doped graphene for the assessment of morphologic properties and nitrogen content impacts on supercapacitors**  
KARAMAN C., BAYRAM E., KARAMAN O., AKTAŞ Z.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.868, 2020 (SCI-Expanded)
- VI. **Correlation between the Molecular Structure of Reducing Agent and pH of Graphene Oxide Dispersion on the Formation of 3D-Graphene Networks**  
KARAMAN C., AKTAŞ Z., BAYRAM E., KARAMAN O., KIZIL C.  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.9, no.7, 2020 (SCI-Expanded)
- VII. **Flow-through electrosorption process for removal of 2,4-D pesticide from aqueous solutions onto activated carbon cloth fixed-bed electrodes**  
BAYRAM E., KIZIL C., Ayranci E.  
WATER SCIENCE AND TECHNOLOGY, vol.77, no.3, pp.848-854, 2018 (SCI-Expanded)
- VIII. **A solution-based procedure for synthesis of nitrogen doped graphene as an efficient electrocatalyst for oxygen reduction reactions in acidic and alkaline electrolytes**  
BAYRAM E., Yilmaz G., Mukerjee S.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.192, pp.26-34, 2016 (SCI-Expanded)

- IX. **Determination of gamma-ray energies and half lives of platinum radio-isotopes by photon activation using a medical electron linear accelerator: a feasibility study**  
EKE C., BOZTOSUN İ., dapo H., SEGEBADE C., BAYRAM E.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.309, no.1, pp.79-83, 2016 (SCI-Expanded)
- X. **Photonuclear reactions with zinc: A case for clinical linacs**  
Boztosun I., Dapo H., Karakoç M., Özmen S. F., Cecen Y., Çoban A. Y., Caner T., Bayram E., Saito T. R., Akdogan T., et al.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.130, no.9, 2015 (SCI-Expanded)
- XI. **Investigation of the electron transfer kinetics on a Fe-based metal organic framework catalyst in nonaqueous electrolytes for Li-air batteries**  
Yilmaz G., BAYRAM E., Mukerjee S.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.250, 2015 (SCI-Expanded)
- XII. **Structural effects on electrosorptive behavior of aromatic organic acids from aqueous solutions onto activated carbon cloth electrode of a flow-through electrolytic cell**  
BAYRAM E., Ayranci E.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.683, pp.14-20, 2012 (SCI-Expanded)
- XIII. **Electrosorption based waste water treatment system using activated carbon cloth electrode: Electrosorption of benzoic acid from a flow-through electrolytic cell**  
BAYRAM E., Ayranci E.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.86, pp.113-118, 2012 (SCI-Expanded)
- XIV. **Biosynthesis of silver nanoparticles using leaves of Stevia rebaudiana**  
Yilmaz M., Turkdemir H., KILIÇ M. A., BAYRAM E., Cicek A., METE A., ULUĞ B.  
MATERIALS CHEMISTRY AND PHYSICS, vol.130, no.3, pp.1195-1202, 2011 (SCI-Expanded)
- XV. **A systematic study on the changes in properties of an activated carbon cloth upon polarization**  
BAYRAM E., Ayranci E.  
ELECTROCHIMICA ACTA, vol.56, no.5, pp.2184-2189, 2011 (SCI-Expanded)
- XVI. **Effects of structural isomerism on solution behaviour of solutes: Apparent molar volumes and isentropic compression of catechol, resorcinol, and hydroquinone in aqueous solution at T = (283.15, 293.15, 298.15, 303.15, and 313.15) K**  
BAYRAM E., Ayranci E.  
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.42, no.9, pp.1168-1172, 2010 (SCI-Expanded)
- XVII. **Electrochemically Enhanced Removal of Polycyclic Aromatic Basic Dyes from Dilute Aqueous Solutions by Activated Carbon Cloth Electrodes**  
BAYRAM E., Ayranci E.  
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.44, no.16, pp.6331-6336, 2010 (SCI-Expanded)
- XVIII. **Investigation of changes in properties of activated carbon cloth upon polarization and of electrosorption of the dye basic blue-7**  
BAYRAM E., Ayranci E.  
CARBON, vol.48, no.6, pp.1718-1730, 2010 (SCI-Expanded)
- XIX. **Adsorption/electrosorption of catechol and resorcinol onto high area activated carbon cloth**  
BAYRAM E., HODA N., Ayranci E.  
JOURNAL OF HAZARDOUS MATERIALS, vol.168, no.2-3, pp.1459-1466, 2009 (SCI-Expanded)
- XX. **Viscosities, apparent molar volumes, expansivities and isentropic compressibilities of some fatty acids and their triglycerides in benzene at (20, 30, 40 and 60) degrees C**  
Akgül G., Bayram E., Ayranci E.  
JOURNAL OF SOLUTION CHEMISTRY, vol.35, no.12, pp.1655-1671, 2006 (SCI-Expanded)
- XXI. **Kinetic and equilibrium studies on the removal of acid dyes from aqueous solutions by adsorption onto activated carbon cloth**  
Hoda N., Bayram E., Ayranci E.  
JOURNAL OF HAZARDOUS MATERIALS, vol.137, no.1, pp.344-351, 2006 (SCI-Expanded)
- XXII. **Adsorption of phthalic acid and its esters onto high-area activated carbon-cloth studied by in situ UV-spectroscopy**

Ayrancı E., Bayram E.

JOURNAL OF HAZARDOUS MATERIALS, vol.122, no.1-2, pp.147-153, 2005 (SCI-Expanded)

XXIII. **Adsorption of benzoic acid onto high specific area activated carbon cloth**

Ayrancı E., Hoda N., Bayram E.

JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.284, no.1, pp.83-88, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Selective cytotoxic effects of nitrogen-doped graphene coated mixed iron oxide nanoparticles on HepG2 as a new potential therapeutic approach**  
Demir Z., Sungur B., Bayram E., Özkan A.  
Discover Nano, vol.19, no.1, 2024 (Scopus)
- II. **Evaluation of the performance of N-doped graphene, synthesized by solvothermal method, as anode for Na-ion and Li-ion batteries**  
Komur A. I., Bayram E.  
Current Topics in Electrochemistry, vol.25, pp.73-82, 2023 (Peer-Reviewed Journal)
- III. **Kristal Viole, Kobalt (II) Nitrat ve Krom (III) Nitrat Moleküllerinin Sulu Çözeltilerinden Cüruf Üzerine Adsorpsiyonunun Araştırılması**  
Ünal O., Bayram E., Kızıl Ç., Ünal A., Antep M. V., Bayram B.  
Türk Doğa ve Fen Dergisi, vol.9, no.Özel Sayı, pp.126-134, 2020 (Peer-Reviewed Journal)
- IV. **Grafen Oksit (GO), Azot Katkılanmış Grafen Oksit (NGN-OKSİT) ve Azot Katkılanmış Grafen (NGN)'in Antikanser Etkilerinin Araştırılması**  
Ünal O., Ünal A., Çetin S. A., Aydemir E., Bayram E., Kızıl Ç.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.36, no.2, pp.193-203, 2020 (Peer-Reviewed Journal)
- V. **Electrosorption of Aromatic Organic Acids From Aqueous Solutions Onto Granular Activated Carbon Electrodes for Water Purification**  
BAYRAM E.  
Hacettepe Journal of Biology and Chemistry, vol.44, pp.273-281, 2016 (Peer-Reviewed Journal)
- VI. **The results of the first photonuclear reaction performed in Turkey: The zinc example**  
Boztosun I., Dapo H., Özmen S. F., Çeçen Y., Karakoç M., Çoban A., Cesur A., Caner T., Bayram E., Keller G. B., et al.  
Turkish Journal of Physics, vol.38, no.1, pp.1-9, 2014 (Peer-Reviewed Journal)

## Books

- I. **ELEKTROKİMYASAL ENERJİ DEPOLAMA ve DÖNÜŞÜM SİSTEMLERİNDE ZORLUKLAR ve GELECEKTEKİ AR-GE GEREKSİNİMLERİ**  
Kömür A. İ., Bayram E., Karaman C. (Editor)  
in: TEKNOBİLİM-2022 Enerji Krizi ve Yenilenebilir Enerji, Ceren Karaman, Editor, Efe Akademi Yayınları, İstanbul, pp.35-53, 2022
- II. **Removal of metobromuron pesticide from aqueous solutions by adsorption at high area carbon cloth**  
HODA N., BAYRAM E., AYRANCI E.  
in: Innovations in Chemical Biology, Şener B, Editor, Springer-Verlag Science + Business Media B.V., Amsterdam, pp.225-232, 2009
- III. **Removal of catechol and resorcinol from aqueous solutions by adsorption at high area carbon cloth**  
HODA N., BAYRAM E., AYRANCI E.  
in: Innovations in Chemical Biology, Şener B, Editor, Springer-Verlag Science + Business Media Editions Rodopi B.V., Amsterdam, pp.213-223, 2009

## Papers Published in Refereed Scientific Meetings

- I. **Grafen ve türevlerinin HepG2 hücreleri üzerindeki en etkili sitotoksik etkisinin doz ve zamana bağlı değerlendirilmesi**  
Demir Z., Sungur B., Bayram E., Özkan A.  
25. Ulusal Biyoloji Kongresi, İzmir, Turkey, 13 July - 15 September 2023, pp.173
- II. **Azot Katkılı Grafen (N- Grafen), İndirgenmiş Grafen Oksit (r-Grafen Oksit) ve İlaç Katkılı Grafenin (Epirubicin-Grafen) A431 (Epidermal Karsinom) / A549 (Akciğer Kanseri) Hücre Dizileri Üzerindeki Antikanser Etkilerinin Karşılaştırılması**  
Çırçırılı B., ÖZKAN A., BAYRAM E., Kızıl Ç., Girişken H., Özcan G.  
1st Eurasia Biochemical Approaches & Technologies (EBAT) Congress, Antalya, Turkey, 27 - 30 October 2018, pp.50
- III. **Investigation of the potential use of 3D graphene networks and composites for high-performance electromagnetic interference shielding**  
KARAMAN C., BAYRAM E., KARAMAN O., SARPÜN İ. H.  
4th Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.28
- IV. **A novel approach to electromagnetic interference shielding: Conductive polymer/graphene nanocomposites**  
KARAMAN C., BAYRAM E., SARPÜN İ. H., KARAMAN O.  
4th Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.51
- V. **High performance graphene-based photodetectors**  
KARAMAN C., TANIR A. G., SARPÜN İ. H., KARAMAN O., BAYRAM E., KOLBAŞI A.  
4th Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.139
- VI. **"High performance graphene-based photodetectors"**  
KARAMAN C., TANIR A., SARPÜN İ. H., KARAMAN O., BAYRAM E., KOLBAŞI A.  
4th Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.1
- VII. **Flow-Through Electrosorption Process for Removal of 2,4-D Pesticide from Aqueous Solutions onto Activated Carbon Cloth Fixed Bed Electrodes**  
BAYRAM E., Kızıl Ç., AYRANCI E.  
IWA 2nd Regional Symposium on Water, Wastewater and Environment, İzmir, Turkey, 22 - 24 March 2017, pp.806-813
- VIII. **Solvothermally synthesis and characterization of nitrogen doped graphene based electrocatalyst for oxygen reduction reactions in alkaline electrolytes**  
BAYRAM E., KIZIL Ç.  
3rd Emerging 2D materials and Graphene Conference, İstanbul, Turkey, 20 - 21 October 2016
- IX. **Preparation and characterization of N doped graphene as a metal free catalyst for the oxygen reduction reactions in acidic and alkaline media**  
BAYRAM E., Yılmaz G., SANJEEV M.  
mESC-IS 2015, Int. Symposium on Materials for Energy Storage and Conversion, Ankara, Turkey, 7 - 09 September 2015
- X. **Li Hava pilleri için Karbonnanotüp Temelli Katotların Üretimi**  
BAYRAM E., ADANALI M. B.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XI. **Oksijen İndirgeme Reaksiyonlarını İçeren Uygulamalarda Kullanılabilecek Azot Katkılanmış Grafen Temelli Elektrokatalizör Üretimi ve Karakterizasyonu**  
BAYRAM E., ADANALI M. B., Yılmaz G.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015

- XII. **Determination of energy levels and half lives of platinum radio-isotopes from photonuclear reactions**  
EKE C., BOZTOSUN İ., Dapo H., Segebade C., BAYRAM E.  
14th International Conference on Modern Trends in Activation Analysis-MTAA14, Delft, Netherlands, 23 - 28 August 2015, pp.63
- XIII. **Investigation of the electron transfer kinetics on a Fe based metal organic framework catalyst in nonaqueous electrolytes for Li air batteries**  
Yılmaz G., BAYRAM E., Mukerjee S.  
250. American Chemical Society National Meeting and Exposition, Boston, United States Of America, 16 - 20 August 2015
- XIV. **Photonuclear reactions induced by a clinical linac**  
BOZTOSUN İ., DAPO H., KARAKOÇ M., ÖZMEN S. F., CECEN Y., ÇOBAN A. Y., CESUR A., CANER T., BAYRAM E., Saito T. R., et al.  
1st NUBA International Conference on Nuclear Physics and Astrophysics, Antalya, Turkey, 14 - 21 September 2014, vol.590
- XV. **Electrosorption of Aromatic Organic Compounds onto Activated Carbon Electrodes for Water Purification**  
BAYRAM E., UYSAL KARATAŞ B., HODA N.  
FILTECH2013, The Filtration Event, Wiesbaden, Germany, 22 - 24 October 2013
- XVI. **Electrosorption of aromatic organic compounds and e coli bacteria onto activated carbon electrodes for water purification**  
UYSAL KARATAŞ B., ADANALI M. B., SAKLIYAN F., BAYRAM E.  
10th International Electrochemistry Meeting, Konya, Turkey, 4 - 08 September 2013
- XVII. **Preparation of activated carbon electrode for water purification**  
BAYRAM E., UYSAL KARATAŞ B., KAHVECİ N., YEKE E., ADANALI M. B.  
10th International Electrochemistry Meeting, Konya, Turkey, 4 - 08 September 2013
- XVIII. **Removal of Catechol and Resorcinol from Aqueous Solution by Adsorption onto High Area Activated Carbon Cloth**  
HODA N., BAYRAM E., Ayrancı E.  
9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, 9 - 13 September 2006, pp.213-223
- XIX. **Removal of Metobromuron Pesticide from Aqueous Solutions by Adsorption at High Area Activated Carbon Cloth**  
HODA N., BAYRAM E., Ayrancı E.  
9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, 9 - 13 September 2006, pp.225-232
- XX. **Katekol rezorsinol ve hidrokinon izomerlerinin sulu çözeltilerdeki davranışlarının görünür molal hacim genleşebilirlik ve sıkıştırılabilirlik özellikleriyle incelenmesi**  
BAYRAM E., HODA N., AYRANCI E.  
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 09 September 2006

## Supported Projects

- Yanılmaz M., Bayram E., TUBITAK Project, 3d Baskı Tekniği ile Nano Yapıda Elektrot ve Elektrolit Tasarımı, 2023 - 2026
- TONGUR T., Kızıl Ç., BAYRAM E., Project Supported by Higher Education Institutions, Pestisitlerin Katı Faz Ekstraksiyon Yöntemi ile Analizinde Matris Kaynaklı Girişim Faktörlerinin Katkıları Grafenler Kullanılarak Uzaklaştırılması, 2022 - 2024
- Karaman C., Bayram E., Kömür A. İ., Project Supported by Higher Education Institutions, Fabrication of New Generation Sodium Ion Batteries Containing Heteroatom Doped Graphene-Based Anode and Investigation of Performance, 2021 - 2023
- Bayram E., Xxxx H., TUBITAK Project, 7'Den 77'Ye Antalya Bilim Şenliği, 2021 - 2022
- BAYRAM E., KIZIL Ç., Project Supported by Higher Education Institutions, Heteroatom Katkılı Grafen Sentezi Karakterizasyonu ve Enerji Depolama ve Dönüşümü Uygulamalarının Araştırılması, 2020 - 2022

Bayram E., Company, Elektrosorpsiyon temelli ev tipi içme suyu arıtım cihazı için elektrot tasarımı ve üretimi, 2019 - 2020

Bayram E., Taner M. S., TUBITAK Project, Deneylerle Bilim Yaz/Kiş Okulu, 2018 - 2019

BAYRAM E., Kızıl Ç., Project Supported by Higher Education Institutions, Grafen Tabanlı Elektrokatalizörlerin Üretilmesi, 2017 - 2019

Bayram E., Büyüktaş D., TUBITAK Project, Yüzealtı ve Yüzeüstü Damla Sulama Sistemiyle Sulanan Sorgumun Sulama Programının Oluşturulması, 2017 - 2019

Bayram E., Company, Grafen ve grafen temelli katot ve anotların üretilmesi ve karakterizasyonu, 2018 - 2018

Bayram E., Company, Kireç çözücü ürününün 304, 316 ve 430 tipi paslanmaz çelikler üzerine korozif etkilerinin zamana bağlı korozyon testi, sıcaklığa bağlı korozyon testi, speküler reflektans testi, mikroskopik analiz ve elektrokimyasal korozyon testi ile belirlenmesi, 2017 - 2017

Bayram E., Kızıl Ç., Project Supported by Other Official Institutions, Solvotermal yöntemle grafen ve azot katkılanmış grafen üretimi, 2015 - 2016

BAYRAM E., Project Supported by Higher Education Institutions, Gıdalarda Bulunabilecek Bazı Pestisitlerin Bozunma Ürünlerinin Belirlenmesi İçin Metot Geliştirilmesi ve Metodun Validasyonu, 2015 - 2016

Bayram E., Boztosun İ., TUBITAK Project, Skandiyum, Antimon, Brom, Klor, Galyum, Praseodim Çekirdeklerinin Enerji Seviyelerinin Ve Yarı Ömürlerinin Fotonükleer Reaksiyon İle Deneysel Olarak Belirlenmesi, 2014 - 2016

Bayram E., Project Supported by Higher Education Institutions, Yüksek Enerji Yoğunluğu Gerektiren Uygulamalar için Lityum-Hava Pillerinin Geliştirilmesi, 2013 - 2015

Bayram E., Project Supported by Other Official Institutions, Elektrosorpsiyon prensibi ile çalışan su arıtma cihazı tasarım ve üretimi, 2012 - 2013

## Patent

Bayram E., Kızıl Ç., Kuru Z., Enerji Depolama Birimlerinde Kullanılmak Üzere Grafen İçeren Bir Anot Elektrot ve Bunun Üretim Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2020/05475 , Standard Registration, 2021

Bayram E., Grafen İçerikli Katot Elektrokatalizörü ve Üretim Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2016 04530 B , Standard Registration, 2021

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## Scientific Project Refereeing

TÜBA Project, August 2024  
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## Scientific Consultations

Anbiokim Doruk Kim, Mad. Org. Dan. Med. Sağ. Hiz. En. San. Tic. A.Ş, Project Consultancy, Akdeniz University, Faculty Of Science, Department of Chemistry, Turkey, 2023 - 2023  
Şirket, Project Consultancy, Akdeniz University, Faculty Of Science, Department of Chemistry, Turkey, 2015 - 2016

## Metrics

Publication: 59  
Citation (WoS): 988  
Citation (Scopus): 1054  
H-Index (WoS): 16  
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## Congress and Symposium Activities

IWA 2nd Regional Symposium on Water, Wastewater and Environment, Attendee, İzmir, Turkey, 2017  
3rd Emerging 2D materials and Graphene Conference, Attendee, İstanbul, Turkey, 2016  
mESC-IS 2015, Int. Symposium on Materials for Energy Storage and Conversion, Attendee, Ankara, Turkey, 2015  
250. American Chemical Society National Meeting and Exposition, Attendee, Massachusetts, United States Of America, 2015  
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015  
14th International Conference on Modern Trends in Activation Analysis-MTAA14, Attendee, --Seçiniz--, Netherlands, 2015

FILTECH2013, The Filtration Event, Attendee, Wiesbaden, Turkey, 2013  
10th International Electrochemistry Meeting, Attendee, Konya, Turkey, 2013  
The XVII euroANALYSIS, Analytical chemistry for human well-being and sustainable development, Attendee, Warszawa, Poland, 2013  
The XVII euroANALYSIS, Analytical chemistry for human well-being and sustainable development, Attendee, Warsaw, Turkey, 2013  
8th International Conference on Nanosciences & Nanotechnologies (NN11), Attendee, Thessaloníki, Greece, 2011  
13 European Conference on Applications of Surface and Interface Analysis, Attendee, Antalya, Turkey, 2009  
XXII. Ulusal Kimya Kongresi, Attendee, Dođu Akdeniz Üniversitesi/Gazimagosa, Cyprus (Kktc), 2008  
XXI. Ulusal Kimya Kongresi, Attendee, İnönü Üniversitesi/Malatya, Turkey, 2007  
9th Eurasia Conference on Chemical Sciences, Attendee, Antalya, Turkey, 2006  
XX. Ulusal Kimya Kongresi, Attendee, Erciyes Üniversitesi/Kayseri, Turkey, 2006

## **Scholarships**

Yurtdışı araştırma bursu, YOK, 2014 - Continues

## **Awards**

BAYRAM E., Gümüş Madalya, 3.rd İstanbul international inventions fair, Türk Patent ve Marka Kurumu, September 2018  
BAYRAM E., 20. Çevre Hizmet Ödülleri, 2016 yılı Bilim Hizmet Ödülü, Akdeniz Üniversitesi, Çevre Sorunları Araştırma ve Uygulama Merkezi, April 2017  
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