

## Assoc. Prof. DERYA BAL ALTUNTAŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-9599-2018

ScopusID: 57194567655

Yoksis Researcher ID: 201392

### Education Information

Doctorate, Ondokuz Mayıs University, Institute Of Science, Department Of Chemistry, Turkey 2009 - 2012

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Department Of Chemistry, Turkey 2005 - 2008

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Department Of Chemistry, Turkey 2005 - 2006

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1999 - 2004

### Dissertations

Doctorate, Geliştirilen Potansiyometrik Kistik Fibrozis Tanı Sisteminin Optimizasyonu ve Standardizasyonu, Sürekli Takip İçin Kullanımının Araştırılması ve Gerçek Örneklerle Uygulanması, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya / Analitik Kimya, 2012

Postgraduate, Kistik Fibrozis ve Tanısı, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya / Analitik Kimya, 2008

### Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry, Life Sciences, Biotechnology, Biomaterial, Biosensor, Chemistry, Analytical Chemistry, Bioanalytical Methods, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2013 - 2020

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

- I. Development of quasi-flexible solid polymer blend electrolytes and boron carbide reinforced tea waste electrodes for supercapacitors**  
Manfo T. A., ŞAHİN M. E., BAL ALTUNTAŞ D.  
Journal of Energy Storage, vol.111, 2025 (SCI-Expanded)
- II. An Electrochemical Immuno-cytosensor Modified with Nanofibers for the Determination of a**

### **Carcinoembryonic Antigen**

Yildizbakan Z., Altuntaş D., SEVİM NALKIRAN H., Aslan S., Mamuk A. E., Koçak Ç., Kurt Ş., NALKIRAN İ., Yener Ç., Ünlü C. G.

BIOCHIP JOURNAL, vol.18, no.3, pp.464-476, 2024 (SCI-Expanded)

- III. **Determination of Exogenous Adrenaline Levels in Patients Undergoing Cardiopulmonary Resuscitation**  
Altuntaş M., Altuntaş D., Aslan S., Yılmaz E., Nalbant E.  
ACS OMEGA, vol.8, no.22, pp.19425-19432, 2023 (SCI-Expanded)
- IV. **Electrochemical Properties of Coumarin 500 Encapsulated in a Liquid Crystal Guided Electrospun Fiber Core and Their Supercapacitor Application**  
Mamuk A. E., Kocak C., Aslan S., Altuntas D.  
ACS APPLIED ENERGY MATERIALS, vol.5, no.10, pp.12078-12089, 2022 (SCI-Expanded)
- V. **Syntheses, crystal structures, hirshfeld surface analyses and electrochemical etoposide/camptotechin sensor applications of acetaldehyde oxime derivatives**  
Topkaya C., Aslan S., Hokelek T., Gokturk T., Kincal S., Altuntas D., Gup R.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)
- VI. **Development of MoS<sub>2</sub> and Au nanoparticle including disposable CEA-based immuno-cytosensor platforms**  
BAL ALTUNTAŞ D., SEVİM NALKIRAN H., ASLAN S., YOLCU Z.  
CHEMICAL PAPERS, vol.76, no.8, pp.5217-5229, 2022 (SCI-Expanded)
- VII. **MoS<sub>2</sub>/Chitosan/GOx-Gelatin modified graphite surface: Preparation, characterization and its use for glucose determination**  
BAL ALTUNTAŞ D., KURALAY F.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.270, 2021 (SCI-Expanded)
- VIII. **Electrochemical Evaluation of Titanium (IV) Oxide/Polyacrylonitrile Electrospun Discharged Battery Coals as Supercapacitor Electrodes**  
ASLAN S., BAL ALTUNTAŞ D., KOÇAK Ç., Kara Subasat H.  
ELECTROANALYSIS, vol.33, no.1, pp.120-128, 2021 (SCI-Expanded)
- IX. **Synthesis of new carbon material produced from human hair and its evaluation as electrochemical supercapacitor**  
Bal Altuntaş D., Aslan S., Akyol Y., Nevruzoğlu V.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.42, pp.2346-2356, 2020 (SCI-Expanded)
- X. **Synthesis and characterization of activated carbon produced from waste human hair mass using chemical activation**  
BAL ALTUNTAŞ D., NEVRUZOĞLU V., Dokumacı M., Cam Ş.  
Carbon Letters, vol.30, no.3, pp.307-313, 2020 (SCI-Expanded)
- XI. **Development of All-Solid-State Antidiabetic Drug Metformin-Selective Microsensor and Its Electrochemical Applications**  
Altuntas D.  
ELECTROANALYSIS, vol.32, no.6, pp.1280-1287, 2020 (SCI-Expanded)
- XII. **Cold substrate method to prepare plasmonic Ag nanoparticle: deposition, characterization, application in solar cell**  
NEVRUZOĞLU V., BAL ALTUNTAS D., Tomakin M.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.4, 2020 (SCI-Expanded)
- XIII. **A biochar-modified carbon paste electrode**  
Bal Altuntas D., Akgul G., YANIK J., ANIK Ü.  
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.3, pp.455-465, 2017 (SCI-Expanded)
- XIV. **Graphene-metallic nanocomposites as modifiers in electrochemical glucose biosensor transducers**  
Altuntas D., Tepeli Y., ANIK Ü.

2D MATERIALS, vol.3, no.3, 2016 (SCI-Expanded)

XV. **Centri-voltammetric detection of epinephrine**

Altuntas D., Oren T., Anik U.

ANALYTICAL METHODS, vol.8, no.38, pp.6872-6876, 2016 (SCI-Expanded)

## Articles Published in Other Journals

I. **Carbon Microrod Material Derived from Human Hair and Its Electrochemical Supercapacitor Application**

BAL ALTUNTAŞ D., Aslan S., NEVRUZOĞLU V.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.3, pp.695-708, 2021 (ESCI)

II. **Evaluation of waste human hair as graphene oxide and examination of some characteristics properties**

BAL ALTUNTAŞ D., NEVRUZOĞLU V.

El-Cezerî Journal of Science and Engineering, vol.7, no.1, pp.104-110, 2020 (Scopus)

III. **Micro-Sized glucose biosensor based on composite pH sensor**

Bal Altuntas D., Tavukcuoglu O.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.7, pp.1355-1359, 2018 (ESCI)

IV. **Determination of Acid Dissociation Constants of Some New 4-[(5-(Bromo/Chloro)-2-Hydroxyphenyl)Methylene]Amino}-5-Alkyl(Aryl)-2,4-Dihydro-3H-1,2,4-Triazol-3-One Derivatives and Evaluation of Their Antioxidant Activity**

İSLAMOĞLU F., MENTEŞE E., BAL ALTUNTAŞ D., Levent Z.

Azerbaijan Chemical Journal, vol.3, pp.75-82, 2015 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **The usage of transition metal complexes**

ASLAN S., TOPKAYA C. G., MAMUK A. E., BAL ALTUNTAŞ D., GÖKTÜRK T.

in: Electrochemistry, , Editor, Royal Society of Chemistry , pp.1-12, 2023

II. **Chitosan Nanocomposites for Biosensing Applications**

MAMUK A. E., IŞIK C., ASLAN S., BAL ALTUNTAŞ D.

in: Chitosan Nanocomposites: Bionanomechanical Applications, , Editor, Springer Nature Singapore, pp.255-281, 2023

III. **Biocomposites and Bioplastics in Electrochemical Applications**

ASLAN S., BAL ALTUNTAŞ D.

in: Handbook of Bioplastics and Biocomposites Engineering Applications, 2nd Edition, Inamuddin, Inamuddin (Editor), Altalhi, Tariq A. (Editor), Editor, wiley, pp.491-512, 2022

## Refereed Congress / Symposium Publications in Proceedings

I. **Determination of BRCA1 a potential biomarker in the treatment of breast cancer.**

KURT Ş., BAL ALTUNTAŞ D., ASLAN S., YOLCU M., YOLCU Z.

17th INTERNATIONAL NANOSCIENCE & NANOTECHNOLOGY CONFERENCE 27-29 August 2023 Izmir Institute of Technology, Izmir / TURKEY, İzmir, Turkey, 27 August 2023

II. **DOUBLE AND INVESTIGATION OF TEA BUSH-BASED NANOMATERIALS WITH SILVER ATOMS AT CRYOGENIC TEMPERATURES**

MANIR M., BAL ALTUNTAŞ D., Şeşen Z. K., Aytemiz G., NEVRUZOĞLU V., YILDIZBAKAN Z., YILDIZBAKAN Z.

2. International World Energy Conference, Kayseri, Turkey, 09 December 2022, pp.47-55
- III. **Electrochemical Biosensor for Determination of Carcinoembryonic Antigen Biomarker Using Human Breast Ductal Adenocarcinoma, Human Ovarian Adenocarcinoma Cancer Cells**  
Yıldızbakan Z., Bal Altuntaş D., Sevim Nalkıran H., Aslan S., Yolcu Z.  
16th Nanoscience and Nanotechnology Conference, TÜRKİYE, 2022, Ankara, Turkey, 05 October 2022
- IV. **Electrochemical Sensor Based on Transition Metal Dichalcogenides for Deoxyribonucleic Acid Detection**  
BAL ALTUNTAŞ D., KURALAY F.  
16th Nanoscience and Nanotechnology Conference, TÜRKİYE, 2022, 05 October 2022
- V. **An Electrochemical Immunosensor Modified with Nanofibers for the Determination of a Carcinoembryonic Antigen**  
YILDIZBAKAN Z., BAL ALTUNTAŞ D., SEVİM NALKIRAN H., MAMUK A. E., KOÇAK Ç., ÜNLÜ C. G., ASLAN S.  
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 05 September 2022
- VI. **Electrochemical Properties of Coumarin 500 Encapsulated in Electrospun Fiber Core**  
BAL ALTUNTAŞ D., MAMUK A. E., KOÇAK Ç., ASLAN S.  
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 05 September 2022
- VII. **RECYCLING APPLICATIONS IN Si BASED SOLAR CELL**  
Manır M., Genç G., Bal Altuntaş D., Tomakin M., Nevruzoğlu V.  
International World Energy Conference, Kayseri, Turkey, 3 - 04 December 2021, pp.183-188
- VIII. **An electrochemical Carcino Embryonic Antigen immunosensor based on titanium IV oxide/polyacrylonitrile nanofibers modified carbon electrodes.**  
ASLAN S., BAL ALTUNTAŞ D., KOÇAK Ç., KARA SUBAŞAT H.  
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 December 2020
- IX. **Voltametric and potentiometric applications of antidiabetic drug Metformin-Selective sensor**  
BAL ALTUNTAŞ D., YOLCU M., DERE N., KANBEROĞLU G.  
2nd International congress on analytical and bioanalytical chemistry, 11 - 14 March 2020
- X. **Graphene Oxide Synthesis with Active Carbon Obtained from Waste Human Hair and Its Characterization**  
Akyol Y., Ekmekçi M. C., NEVRUZOĞLU V., BAL ALTUNTAŞ D.  
NanoTR-15, Antalya, Turkey, 3 - 06 November 2019, vol.77
- XI. **Synthesis and characterization of activated carbon produced from waste human hair mass using chemical activation**  
DOKUMACI M., CAM Ş., NEVRUZOĞLU V., BAL ALTUNTAŞ D.  
4th International Energy Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.30-31
- XII. **Development of potentiometric chloride-selective PVC membrane microsensor for diagnosis of Cystic Fibrosis**  
BAL ALTUNTAŞ D., YOLCU M., İŞILDAK İ.  
Eurasian Congress on Molecular Biotechnology, Trabzon, Turkey, 19 - 21 September 2019, pp.184-188
- XIII. **The growth of silver based illuminated layer for solar cells with novel method.**  
NEVRUZOĞLU V., Aktepe S., ÖZTÜRK G., BAL ALTUNTAŞ D., TOMAKİN M.  
XI International Conference on Amorphous and Microcrystalline semiconductors, 19 - 21 November 2018
- XIV. **The Growth of Silver Based Illuminated Layer for Solar Cells with Novel Method**  
NEVRUZOĞLU V., Sidar A., ÖZTÜRK G., BAL ALTUNTAŞ D., TOMAKİN M.  
XI International Conference on Amorphous and Microcrystalline Semiconductors, 19 - 21 November 2018, pp.239
- XV. **Si- Based Solar Cell Recycling Study**  
BAL ALTUNTAŞ D., Aktepe S., TOMAKİN M., NEVRUZOĞLU V.  
International Conference on Energy Research (ENRES), Alanya, Turkey, 31 October - 02 November 2018
- XVI. **Biofuel Cell Platforms**  
BAL ALTUNTAŞ D.  
3rd International Energy Engineering Congress 2018, Gaziantep, Turkey, 18 - 19 October 2018

- XVII. Biosensing Applications:A-lab on-Device for the precise Diabet follow up**  
BAL ALTUNTAŞ D., KURALAY F.  
4 th.International Turkic World Conference on Chemical Sciences and Technologies,Kyiv, Ukraine, Kiev, Ukraine, 7 - 10 September 2018
- XVIII. Preparation, Characterization and Electrochemical Applications of Molybdenum (IV) Disulfide and Chitosan Nanocomposite Modified Surfaces**  
BAL ALTUNTAŞ D., KURALAY F.  
4 th International Turkic World Conference on chemical Sciences and Technologies,Kyiv, Ukraine, Kiev, Ukraine, 7 - 10 September 2018
- XIX. A New Approach For Fighting With Global Warming**  
BAL ALTUNTAŞ D., NEVRUZOĞLU V.  
2nd International Conference on Innovations in Natural Science and Engineering, Kyiv ,Ukraine, Kiev, Ukraine, 7 - 10 September 2018
- XX. Preparation, Characterization and Electrochemical Applications of Molybdenum (IV) Disulfide and Multi- Walled Carbon Nanotubes (MWCNT) Nanocomposite Modified Surfaces**  
BAL ALTUNTAŞ D., KURALAY F.  
2nd International Conference on Innovations in Naturel Science and Engineering, Kyiv, Ukraine, Kiev, Ukraine, 7 - 10 September 2018
- XXI. Two-Dimensional Materials Beyond Graphene: Their Use in Electrochemistry**  
BAL ALTUNTAŞ D., KURALAY F.  
1. International Technological sciences and design symposium, 27 - 29 June 2018
- XXII. A Development of New Generation Biosensors with 2D MaterialsBeyond Graphene**  
BAL ALTUNTAŞ D.  
1 st International Conference on Innovations in Natural Science and Engineering(ICINSE 2018), Turkish Republic of Northern Cyprus, Fagamusta, Fagamusta, Cyprus (Kkct), 3 - 06 January 2018
- XXIII. Practical Biomedical Applications Based on Molybdenum Disulfide**  
BAL ALTUNTAŞ D., YELGEL Ö. C.  
1st International Conference on Innovations in Natural Science and Engineering(ICINSE 2018)Turkish Republic of Northern Cyprus, Fagamusta, Cyprus (Kkct), 3 - 06 January 2018
- XXIV. A novel amperometric glucose biosensor based on biochar –cupper metallic composite**  
BAL ALTUNTAŞ D., AKGÜL G.  
13th Nanoscience and Nanotechnology Conference, 22 - 25 October 2017, pp.366
- XXV. A Novel Amperometric Glucose Biosensor Based in Biochar -Copper Metallic Composite**  
BAL ALTUNTAŞ D., AKGÜL G.  
13th International Nanoscience and Nanotechnology Conference, 22 - 25 October 2017
- XXVI. Biochar Metalic Nanocomposite Based Glassy Carbon Paste Electrode Glucose Biosensors**  
BAL ALTUNTAŞ D., AKGÜL G., MORENO JIMENEZ E., Diaz E.  
3rd International Congress on Biosensors, 5 - 07 October 2016
- XXVII. Çay Atıklarından Üretilen Biyokömürlerin Organik Ve İnorganik Kirleticileri Uzaklaştırma Kapasitesi**  
AKGÜL G., BAL ALTUNTAŞ D., Bolat Maden T., Yanık J.  
Ulusal Biyoyakıtlar Sempozyumu, Samsun, Turkey, 27 - 30 September 2016, pp.237-246
- XXVIII. Biochar Modified Carbon Paste Electrode**  
BAL ALTUNTAŞ D., AKGÜL G., YANIK J., ANIK Ü.  
12th Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- XXIX. Determination of Biological Activities such as Antibacterial, Antiviral and Antifungal with Acidity at Drug Active Substance in Some Benzimidazole Derivatives**  
İSLAMOĞLU F., MENTEŞE E., Erdoğan N., BAL ALTUNTAŞ D.  
2.International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 27 - 29 November 2015, pp.33
- XXX. Bazı Fenil[2{Süstitüe Klorobenzil)-1H-1,3-Benzimidazol-5-İl] Metanon Türevi Bileşiklerinin Asidik İyonlaşma Sabitlerinin Potansiyometrik Titrasyon Yöntemi ve Teorik Olarak Belirlenmesi**  
İSLAMOĞLU F., BAL ALTUNTAŞ D.

7. Ulusal Analitik Kimya Kongresi, Turkey, 1 - 05 September 2014
- XXXI. **Bazı Fenil[2-(Süstitüe Florobenzil)-1H-1,3-Benzimidazol-5-il]Metanon Türevi Bileşiklerinin pKa Değerlerinin Potansiyometrik Metot ve Teorik Yöntem ile Hesaplanması**  
İSLAMOĞLU F., BAL ALTUNTAŞ D.  
VII. Ulusal Analitik Kimya Kongresi, Kahramanmaraş, Turkey, 1 - 05 September 2014, pp.99
- XXXII. **Emerging Sensing Tecnology : A-Lab-on-Device for the Pricise Detection Cystic Fibrosis Disease**  
BAL ALTUNTAŞ D., Dumanlı R., Öztürk S., ALTİKATOĞLU YAPAÖZ M., Bal E., İŞILDAK İ.  
9th International Electrochemistry Meeting in Turkey, 25 - 29 September 2011
- XXXIII. **Determination of Sodium and Potassium İons Via Microcolumn Chromatography-Potentiometric Detection in Saliva Samples**  
Dumanlı R., BAL ALTUNTAŞ D., İŞILDAK İ.  
9th International Electrochemistry Meeting in Turkey, 25 - 29 September 2011
- XXXIV. **Monolitik Kapiler Kolon İyon Kromatografi ve Potansiyometrik Deteksiyon Sistemi ile Yaygın Anyonların Hızlı ve Hassas Tayini**  
Dumanlı R., BAL ALTUNTAŞ D., KONANÇ M. U., İŞILDAK İ.  
5. Ulusal Analitik Kimya Kongresi, Turkey, 21 - 25 June 2010
- XXXV. **A Micro-Sized NO<sub>3</sub> - Selective Potentiometric Sensor for Nitrate Determination in Environmental Samples**  
Eren H., ANDAÇ M., BAL ALTUNTAŞ D.  
8. International Electrochemistry Meeting, 8 - 11 October 2009
- XXXVI. **Dopamin, Askorbik Asit ve Ürik Asitin Eş Zamanlı Voltametrık Tayinine Sodyumdodesilsülfat ve 1 - Butyl -3-metilimidazolyum tetrafloroborat'ın Etkisi**  
ŞAKA T., BAL ALTUNTAŞ D., İŞILDAK İ.  
23.Ulusal Kimya Kongresi, Turkey, 16 - 20 June 2009
- XXXVII. **Kistik Fibrozis Tanı Saati**  
BAL ALTUNTAŞ D., KARSLI SEMİZ D., AYDIN R., Tinkılıç N., İŞILDAK İ.  
IV. Ulusal Analitik Kimya Kongresi, Turkey, 25 - 27 June 2008
- XXXVIII. **Biomass Dumanındaki Aerosollerde Metallerin Örneklenmesi ve Tayini**  
İŞILDAK Ö., ASAN A., BAL ALTUNTAŞ D., GÜRİSOY E.  
IV. Ulusal Analitik Kimya Kongresi, Turkey, 25 - 27 June 2008
- XXXIX. **Minyatürize Kapiler Elektforez Sistem ve Potansiyometrik Tayin**  
ÇETİNKAYA E., BAL ALTUNTAŞ D., ŞAKA T., ASAN A., İŞILDAK İ.  
IV. Ulusal Analitik Kimya Kongresi, Turkey, 25 - 27 June 2008
- XL. **İyon Seçici Elektrotlarla Su Sertliğinin Belirlenmesi**  
SARIBOĞA N., ÇOLDUR F., BAL ALTUNTAŞ D., ŞAKA T., ASAN A., ANDAÇ M.  
IV. Ulusal Analitik Kimya Kongresi, Turkey, 25 - 27 June 2008
- XLI. **İnorganik Membran Amonyak Gaz Sensör**  
VARAN S., BAL ALTUNTAŞ D., ANDAÇ M., İŞILDAK İ.  
6. ELEKTROKİMYA GÜNLERİ, Turkey, 29 June - 01 July 2005

## Supported Projects

Yıldız Y., Nevruzoglu V., Mercantepe T., Beriş F. Ş., Manır M., Yıldız İ. E., Bal Altuntaş D., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Kriyojenik sıcaklıklarda Kanül Yüzeyinin Gümüş Atomlarıyla Kaplanması ve Karakterizasyonu, 2023 - 2025

Bal Altuntaş D., Kara Subaşat H., Sevim Nalkıran H., Nalkıran İ., Aslan S., Mamuk A. E., Koçak Ç., TUBITAK Project, Development of a New 3D Glioblastoma Tumor-Microenvironment Interaction Model and the Establishment of Electrochemical Platforms, 2022 - 2024

BAL ALTUNTAŞ D., YOLCU M., ASLAN S., Project Supported by Higher Education Institutions, Kanserin erken tanısına yönelik pratik ve tek kullanımlık nanobiyosensörlerin uygulamaları, 2020 - 2022

Bal Altuntaş D., TUBITAK Project, Nanoyapı temelli immüno-sitosensör platformlarının geliştirilmesi, 2019 - 2020  
Bal Altuntaş D., TUBITAK Project, 2019 - 2019  
BAL ALTUNTAŞ D., TUBITAK Project, Biyoyakıt hücre platformlarının oluşturulması, 2018 - 2019  
BAL ALTUNTAŞ D., YELGEL Ö. C., Project Supported by Higher Education Institutions, Dikalkojen nanoyapılar kullanılarak yeni nesil biyosensörlerin geliştirilmesi, 2017 - 2019  
AKGÜL G., BAL ALTUNTAŞ D., Project Supported by Higher Education Institutions, Çay atıklarından üretilen biyokömürlerin organik-inorganik kirleticileri adsorpsiyon kapasitesinin belirlenmesi, 2014 - 2017  
BAL ALTUNTAŞ D., TUBITAK Project, Yeni bir kistik Fibrozis tanı cihazının geliştirilmesi ve ticarileştirilmesi 3140048, 2014- halen, 2014 - 2017  
BAL ALTUNTAŞ D., AKGÜL G., İSLAMOĞLU F., Erdoğan N., YOLCU M., Project Supported by Higher Education Institutions, Mikro Büyüklükte Potansiyometrik Glikoz Biyosensör Geliştirilmesi., 2015 - 2016  
BAL ALTUNTAŞ D., TUBITAK Project, Yaygın Anyon ve Katyonlar İçin Potansiyometrik Mikro Sensor Dizilerinin Tasarımı, Uygulamaları ve Kemometrik Yaklaşımlar, 2007 - 2010  
BAL ALTUNTAŞ D., TUBITAK Project, Isınma ve Pişirme Amaçlı Kullanılan Biomass Dumanındaki Aerosollerde Yaygın Anyon ve Katyonların ve Ağır Metallerin Geliştirilecek Metotla Örneklenmesi ve İncelenmesi., 2006 - 2008  
BAL ALTUNTAŞ D., Project Supported by Other Official Institutions, Kistik Fibrozis Tanı Saati, 2005 - 2008

## Patent

Nevruzoğlu V., Balık M. S., Demir S., Manır M., Beriş F. Ş., Tomakin M., Bal Altuntaş D., Orthopedic bone cement with silver-containing metal-organic framework structure support, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2021 019518 A1 , Standard Registration, 2023  
Şatroğlu Ö., Nevruzoğlu V., Mercantepe T., Tümkaya L., Güner S. B., Altuntaş M., Bal Altuntaş D., Kaplan Z. M., Karakişi S. O., Ergene Ş., Vasküler ve üriner sistemlerde oluşan kalsifiye yapıların kriyoterapi ile fragmente edilmesi için çok katmanlı gaz taşıyıcı sistem., Patent, CHAPTER A Human Needs, The Invention Registration Number: 2020 08455 , Standard Registration, 2022  
Tomakin M., Nevruzoğlu V., Bal Altuntaş D., Güneş pillerinde geri dönüşüm uygulamaları., Patent, CHAPTER G Physics, The Invention Registration Number: TR 2018 03808 B , Standard Registration, 2020

## Metrics

Publication: 65  
Citation (WoS): 37  
Citation (Scopus): 38  
H-Index (WoS): 8  
H-Index (Scopus): 8

## Congress and Symposium Activities

Graphene oxide synthesis with active carbon obtained from waste human hair and its characterization, NanoTR-15, 2019, Attendee, Antalya, Turkey, 2019  
Synthesis and characterization of activated carbon produced from waste human hair mass using chemical activation, 4th International Energy & Engineering Congress, Attendee, Gaziantep, Turkey, 2019  
Two-Dimensional Materials Beyond Graphene: Their Use in Electrochemistry ” 1st International Technology Sciences and Design Symposium, 2018, Giresun, Turkey, Attendee, Giresun, Turkey, 2018  
A Development of New Generation Biosensors with 2D Materials Beyond Graphene. 1. International Conference on Innovations in Natural Science and Engineering ICINSE 2018, Famagusta, Turkish Republic of Northern Cyprus, Attendee, Gazimagusa, Cyprus (Kktc), 2018

Practical Biomedical Applications based on molybdenum disulfide. 1.International Conference on Innovations in Natural Science and Engineering ICINSE 2018, Famagusta, Turkish Republic of Northern Cyprus, Attendee, Gazimagusa, Cyprus (Kktc), 2018

A novel amperometric glucose biosensor based on biochar -copper metallic composite13th Nanoscience and Nanotechnology Conference, Antalya, TÜRKİYE, 22-25 Ekim 2017, pp.366-366, Attendee, Antalya, Turkey, 2017

3rd International Congress on Biosensors, 5-7 October 2016, Ankara 'Biochar-Metalic Nanocomposite Based Glassy Carbon Paste Electrode Glucose Biosensors', Attendee, Ankara, Turkey, 2016

12th International Nanoscience and Nanotechnology Conference NANO TR-12 03-05 June 2016, Kocaeli/Turkey, Attendee, Kocaeli, Turkey, 2016

Determination of sodium and potassium ions via microcolumn chromatography- potentiometric detection in saliva samples" ECM9 9th International Electrochemistry Meeting in Turkey, 25-29 September, 2011- Ege Üniversitesi İzmir ,Çeşme., Attendee, İzmir, Turkey, 2011

Emerging sensing technology : A-lab-on-device for the precise detection Cystic Fibrosis Disease", ECM9 9th International Electrochemistry Meeting in Turkey 25-29 September, 2011 - Ege Üniversitesi İzmir ,Çeşme., Attendee, İzmir, Turkey, 2011

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