

## Lect. HATİCE BİLGİLİ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-3897-8835

Publons / Web Of Science ResearcherID: B-2488-2019

Yoksis Researcher ID: 123072

### Education Information

Doctorate, Inonu University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2013 - Continues

Postgraduate, Baskent University, Faculty Of Engineering, Department Of Biomedical Engineering, Turkey 2012 - 2013

Undergraduate, Yildiz Technical University, Elektrik Elektronik Fak., Elektronik Ve Haberleşme Müh. Bölümü, Turkey 1988 - 1993

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, QCM Akış Ölçer Tasarımı ve Üretimi, Baskent University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Anabilim Dalı, 2013

### Research Areas

Biomedical Engineering, Bioengineering and MEMS, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Electromagnetic, Electromagnetic in Biology and Medicine, Electric and Magnetic Fields, Biomaterial, Electronic and magnetic devices, microelectronics, Physical Chemistry, Fluid Dynamics, Magnetic Properties and Materials, Engineering and Technology

### Academic Titles / Tasks

Lecturer, Inonu University, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, 2014 - Continues

### Courses

Uygulamalı Mühendislik Eğitimi, Undergraduate, 2019 - 2020

Biyofizik, Undergraduate, 2020 - 2021

Lojik Devreler, Undergraduate, 2019 - 2020

(TS)Yapay Organlar, Undergraduate, 2019 - 2020  
Bitirme Projesi II, Undergraduate, 2019 - 2020  
Bitirme Projesi I, Undergraduate, 2018 - 2019  
Lojik Devreler Laboratuvarı, Undergraduate, 2019 - 2020  
Giriřimcilik, Undergraduate, 2018 - 2019  
(TS) Manyetik Nanoparçacıklar ve Biyomedikal Uyg., Undergraduate, 2019 - 2020  
Biyomedikal Teknoloji ve Tibbi Cihazlar, Undergraduate, 2018 - 2019  
Lojik Devreler, Undergraduate, 2018 - 2019  
Tibbi Cihazlarda Biyolojik Tehlikeler, Associate Degree, 2016 - 2017  
Lojik Devreler, Undergraduate, 2017 - 2018  
Tibbi Cihazlarda Biyolojik Tehlikeler, Associate Degree, 2015 - 2016  
Seçmeli (Biyomedikal Modifikasyon), Associate Degree, 2014 - 2015

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

- I. **Modeling of the Particle Build-Up Evolution on a Single-Wire Magnetic Capture from Axial Stream Flow**  
BİLGİLİ H., KELEŞ C., ABBASOV T.  
MAGNETOCHEMISTRY, vol.8, no.2, 2022 (SCI-Expanded)
- II. **Quasi-Newtonian Approach determination of velocity profile for the fully developed axial power law fluid flow in concentric annuli**  
ABBASOV T., BİLGİLİ H., Pacaci A. S.  
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.16, no.6, 2021 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Biyomühendislikte Kullanılan Kan Analoglarına Genel Bir Bakış**  
BİLGİLİ H., ABBASOV T.  
Journal of Inonu University Health Services Vocational School, vol.8, no.3, pp.946-963, 2020 (Peer-Reviewed Journal)
- II. **Non-Newtonian Sıvıların Aksiyel Halka Akışında Basınç Kaybının Belirlenmesi için Yeni Bir Çözüm Yaklaşımı**  
ABBASOV T., BİLGİLİ H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.8, no.4, pp.758-767, 2020 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **MANYETİK İLAÇ HEDEFLEME UYGULAMALARINDA KAN REOLOJİK AKIŞ MODELLERİNİN ANALİZİ**  
BİLGİLİ H., ABBASOV T.  
MAS INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS ENGINEERING-NATURAL MEDICAL SCIENCES-XII, İzmir, Turkey, 18 - 19 July 2020, pp.5-6
- II. **MANYETİK İLAÇ HEDEFLEME UYGULAMALARINDA PARÇACIKLARA ETKİYEN MANYETİK ALANIN ANALİZİ**  
BİLGİLİ H., ABBASOV T.  
MAS INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS-ENGINEERING-NATURAL MEDICAL SCIENCES-XII, İzmir, Turkey, 18 - 19 July 2020, pp.7-8
- III. **BİYOMANYETİK SEPERASYON CİHAZLARINDA KULLANILAN GRADYANTLI MANYETİK ALANLARIN**

## ELDE EDİLMESİ VE İNCELENMESİ

BİLGİLİ H., BARAN Y., ABBASOV T.

III. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 21 - 23 September 2019

- IV. **Biyomanyetik Seperasyon Cihazlarında Kullanılan Gradyanlı Manyetik Alanların Elde Edilmesi ve İncelenmesi**

BİLGİLİ H., ABBASOV T.

1- III. Uluslararası Battalgazi Multidisipliner Çalışmalar Kongresi, Malatya, Turkey, 21 - 23 September 2019, pp.167

- V. **MAGNETIC SEPARATION OF BIOPARTICLES IN RHEOLOGICAL SUSPENSION**

BİLGİLİ H., ABBASOV T.

III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Gaziantep, Turkey, 4 - 07 April 2019, pp.709-714

- VI. **INSTANT ELECTROMAGNETIC FIELD POLLUTION MEASUREMENTS AND MAPPINGS IN A UNIVERSITY SETTLEMENT (WEEKDAYS EVENING)**

KARADAĞ T., BİLGİLİ H., ABBASOV T.

III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Malatya, Turkey, 4 - 07 April 2019, pp.692-708

- VII. **MAGNETIC SEPARATION OF BIOPARTICLES IN RHEOLOGICAL SUSPENSION**

BİLGİLİ H., ABBASOV T.

III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Gaziantep, Turkey, 4 - 07 April 2019, pp.709-714

- VIII. **INSTANT ELECTROMAGNETIC FIELD POLLUTION MEASUREMENTS AND MAPPINGS IN A UNIVERSITY SETTLEMENT (WEEKDAYS EVENING)**

KARADAĞ T., BİLGİLİ H., ABBASOV T.

III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Gaziantep, Turkey, 4 - 07 April 2019, pp.692-708

- IX. **ANALYSIS AND EXPERIMENTAL TESTS OF GRADIENT MAGNETIC FIELDS FOR SEPARATION OF BIOPARTICLES**

BİLGİLİ H., BARAN Y., ABBASOV T.

II. ULUSLARARASI BATTALGAZİ MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 15 - 17 March 2019, pp.150-156

- X. **Analysis and Experimental Tests of Gradient Magnetic Fields for Separation of Bioparticles**

BİLGİLİ H., Baran Y., ABBASOV T.

II. Uluslararası Battalgazi Multidisipliner Çalışmalar Kongresi, Malatya, Turkey, 15 - 17 March 2019, pp.150-156

- XI. **Magnetic Activation of Drug Carriers in Biomedical Engineering by Using Digital Signal Controller**

BİLGİLİ H., ÖZGÜVEN Ö. F., ABBASOV T.

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2057-2062

- XII. **Magnetic Activation of Drug Carriers in Biomedical Engineering by Using Digital Signal Controller**

BİLGİLİ H., ÖZGÜVEN Ö., ABBASOV T.

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2057-2062

- XIII. **Mapping of Blood Coagulation via Image Processing Method**

BİLGİLİ H.

2015 Medical Technologies National Conference (TIPTEKNO), 15 - 18 October 2015

- XIV. **Mapping of blood coagulation via image processing method Kan Pihtdaimasinin Görüntü İşleme Yöntemiyle Haritalandırılması**

Onar B., Bayindir M., BİLGİLİ H., ERKURT M. A., Yakinci C., YAKINCI M. C.

Medical Technologies National Conference, TIPTEKNO 2015, Bodrum, Turkey, 15 - 18 October 2015

## Supported Projects

KIZILASLAN O., ZENGİN R., KIRAT G., ŞİMŞEK M., ÖZGÜVEN Ö., DOĞAN B., BİLGİLİ H., AKSAN M. A., ERDOĞAN A., Project Supported by Higher Education Institutions, RF PÜSKÜRTME TEKNİĞİ İLE HİDROKSİAPATİT VE FLORAPATİT KAPLANMIŞ ORTODONTİK ŞEKİL HAFIZALI NİTİ TELLERİN HAZIRLANMASI, 2018 - 2021

ERDOĞAN A., KIZILASLAN O., ABBASOV T., SARIMEŞELİ PAÇACI A., BİLGİLİ H., Project Supported by Higher Education Institutions, Doksorubisin Yüklü Manyetik Nanoparçacıkların Sentezlenmesi ve Karakterizasyonu, 2018 - 2021  
ŞİMŞEK M., YAKINCI M. E. , ERDOĞAN A., KIZILASLAN O., ÖZGÜVEN Ö., BİLGİLİ H., DOĞAN B., Project Supported by Higher Education Institutions, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİ LABORATUVARLARI ALTYAPI TAMAMLAMA PROJESİ, 2015 - 2018  
BİLGİLİ H., Project Supported by Other Official Institutions, QCM-D Tromboelastogram, 2013 - 2014

## **Scientific Research / Working Group Memberships**

Biyosensör Çalışma Grubu, İNÖNÜ ÜNİVERSİTESİ, Turkey, <https://sites.google.com/site/inonubiosensor/>, 2016 - Continues

Biyomalzeme Çalışma Grubu, İNÖNÜ ÜNİVERSİTESİ, Turkey, <https://sites.google.com/site/inonubiyomalzeme/>, 2016 - Continues

## **Metrics**

Publication: 19

## **Non Academic Experience**

Other, Dbb Elektronik Ltd. Şti.

Business Establishment Private, Artı Elektronik

Business Establishment Private, Power Control Systems Ltd.

Business Establishment Private, İnform Elektronik A.Ş.

Business Establishment Private, Nortel Networks Netaş

Business Establishment Private, Groupe Schneider

Business Establishment Private, Enel Endüstriyel Elektronik Ltd. Şti.