

## **Prof. TEYMURAZ ABBASOV**

### **Personal Information**

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**Address:** 44280 İnönü Üniversitesi Mühendislik Fakültesi elektrik-Elektronik Mühendisliği Bölümü Malatya Türkiye

### **Education Information**

Doctorate, Azerbaycan Devlet Petrol Akademisi, Fen Bilimleri Enstitüsü, Elektrotekniğin Teorik Temelleri, Azerbaijan 1987 - 1991

Post Graduate, Moskova Devlet Teknik Üniversitesi, Mühendislik Fakültesi, Otomobillerin Ve Uçakların Elektrik Teçhizatı, Russia 1976 - 1981

### **Foreign Languages**

Russian, C1 Advanced

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, Reolojik Özellikli Taşıyıcı Ortamlarda Demir İçerikli Parçacıkların Nonhomojen Manyetik Alanlarda Çöktürülmesi, Azerbaycan Bilimler Akademisi, Fizik Enstitüsü, Elektromanyetik Teknolojiler, 1991

### **Research Areas**

Electrical and Electronics Engineering, Electromagnetic, Electric and Magnetic Fields, Electromagnetic Environment and Interaction, Chemical Engineering and Technology, Basic Operations and Thermodynamics, Transport Events, Mining Engineering and Technology, Ore-Dressing, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Inonu University, Mühendislik Fakültesi,, Elektrik-Elektronik Mühendisliği Bölümü , 1996 - Continues

### **Professional Experience**

Deputy Head of Department, Azerbaycan Devlet Neft Akademisi, Enerji, Elektrotekniğin Teorik Temelleri, 1991 - 1996

### **Courses**

## Advising Theses

- ABBASOV T., Diyarbakır il merkezi'nde elektromanyetik alan maruziyet seviyelerinin ölçümü, haritalandırılması ve istatistiksel analizi, Doctorate, M.CANSIZ(Student), 2016
- ABBASOV T., Manyetik sıvı çekirdekli transformatörlerin tasarımı ve incelenmesi, Post Graduate, V.GÖGEBAKAN(Student), 2016
- ABBASOV T., Yeni nesil haberleşme sistemlerinin elektromanyetik uyumluluk problemlerinin incelenmesi ve modellenmesi, Doctorate, T.KARADAĞ(Student), 2014
- ABBASOV T., Endüstriyel sıvılardan elektromanyetik filtrasyon yöntemiyle demir uzaklaştırılması ve proses parametrelerinin optimizasyonu, Doctorate, Z.YILDIZ(Student), 2011
- ABBASOV T., Ferromanyetik granüllerden oluşturulmuş yüksek gradyanlı manyetik alanların incelenmesi ve modellenmesi, Post Graduate, T.KARADAĞ(Student), 2009
- ABBASOV T., Biyomedikal mühendisliğinde yüksek gradyanlı manyetik alanlarda hücre ayrımı, Post Graduate, B.RÜZGAR(Student), 2006
- ABBASOV T., Elektromanyetik alanların canlı organizmalara etkilerinin incelenmesi, Post Graduate, E.ÖNAL(Student), 2005

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Some Actual Problems of Magnetic Filters With Magnetized Packed Beds and Comparative Analysis of Filter Performances**  
ABBASOV T.  
IEEE TRANSACTIONS ON MAGNETICS, vol.55, 2019 (Journal Indexed in SCI)
- II. **Development of a High Gain, Dual-Band and Two-Layer Miniaturized Microstrip Antenna for 5.8 GHz ISM and 10 GHz X-Band Applications**  
Atas I., ABBASOV T., Kurt M. B.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, pp.1568-1575, 2019 (Journal Indexed in SCI)
- III. **Mapping of radio frequency electromagnetic field exposure levels in outdoor environment and comparing with reference levels for general public health**  
Cansiz M., ABBASOV T., Kurt M. B., ÇELİK A. R.  
JOURNAL OF EXPOSURE SCIENCE AND ENVIRONMENTAL EPIDEMIOLOGY, vol.28, pp.161-165, 2018 (Journal Indexed in SCI)
- IV. **Mobile measurement of radiofrequency electromagnetic field exposure level and statistical analysis**  
Cansiz M., ABBASOV T., Kurt M. B., ÇELİK A. R.  
MEASUREMENT, vol.86, pp.159-164, 2016 (Journal Indexed in SCI)
- V. **Particle capture modeling for an axial magnetic filter with a bounded non-Newtonian flow field**  
Abbasov T., Gogebakan V., Karadag T.  
POWDER TECHNOLOGY, vol.291, pp.223-228, 2016 (Journal Indexed in SCI)
- VI. **Analysis of Magnetization Properties of the Ferromagnetic Granular Beds**  
ABBASOV T., HERDEM S.  
IEEE TRANSACTIONS ON MAGNETICS, vol.52, 2016 (Journal Indexed in SCI)
- VII. **A large-scale measurement, analysis and modelling of electromagnetic radiation levels in the vicinity of GSM/UMTS base stations in an urban area**  
KARADAĞ T., Yuceer M., ABBASOV T.  
RADIATION PROTECTION DOSIMETRY, vol.168, pp.134-147, 2016 (Journal Indexed in SCI)
- VIII. **EVALUATION OF ELECTROMAGNETIC FILTRATION EFFICIENCY USING LEAST SQUARES SUPPORT**

## **VECTOR MODEL**

Yuceer M., YILDIZ Z., ABBASOV T.

PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.51, pp.173-180, 2015 (Journal Indexed in SCI)

- IX. **Performance Prediction of the Magnetic Packed Bed Using Response Surface Methodology**  
Yildiz Z., Yuceer M., ABBASOV T.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.31, pp.181-185, 2013 (Journal Indexed in SCI)
- X. **Effect of the Magnetization Properties of the Granular Beds and the Operating Parameters on the Removal Ferrous Particles From the Waters by Using Magnetic Filter**  
Yildiz Z., ABBASOV T., SARIMEŞELİ PAÇACI A.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.31, pp.109-113, 2013 (Journal Indexed in SCI)
- XI. **Effect of the Magnetization Properties of the Granular Beds and the Operating Parameters on the Removal Ferrous Particles From the Waters by Using Magnetic Filter**  
ABBASOV T., YILDIZ Z., YÜCEER M.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.31, pp.109-113, 2013 (Journal Indexed in SCI)
- XII. **Comparison of Modeling Approaches for Prediction of Cleaning Efficiency of the Electromagnetic Filtration Process**  
Yildiz Z., Yuceer M., ABBASOV T.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.26, pp.899-906, 2011 (Journal Indexed in SCI)
- XIII. **Effect of Surfactants on the Particle Capture Mechanism in an Electromagnetic Filter**  
ABBASOV T., Yildiz Z., SARIMEŞELİ PAÇACI A.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.32, pp.755-759, 2011 (Journal Indexed in SCI)
- XIV. **A numerical approach to hydromagnetic squeezed flow and heat transfer between two parallel disks**  
BAHADIR A. R. , ABBASOV T.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.63, pp.63-71, 2011 (Journal Indexed in SCI)
- XV. **Effect of Some Process Parameters on the Separation of the Dispersed Ferrous Impurities Using Cycled Electromagnetic Filter**  
Yildiz Z., ABBASOV T., SARIMEŞELİ PAÇACI A.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.31, pp.1072-1076, 2010 (Journal Indexed in SCI)
- XVI. **Estimation of Magnetization Properties of the Ferromagnetic Poly-Granular Beds**  
KARADAĞ T., Yildiz Z., SARIMEŞELİ PAÇACI A., ABBASOV T.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.31, pp.826-830, 2010 (Journal Indexed in SCI)
- XVII. **Enhanced endometrial response to a magnetic intrauterine device: A preliminary study**  
Celik O., Ugras M., Hascalik S., Aydin N. E. , ABBASOV T.  
EUROPEAN JOURNAL OF CONTRACEPTION AND REPRODUCTIVE HEALTH CARE, vol.14, pp.437-443, 2009 (Journal Indexed in SCI)
- XVIII. **Magnetic filtration with magnetized granular beds: Basic principles and filter performance**  
Abbasov T.  
CHINA PARTICUOLOGY, vol.5, pp.71-83, 2007 (Journal Indexed in SCI)
- XIX. **Some aspects of magnetic filtration theory for removal of fine particles from aqueous suspensions**  
Sarikaya M., ABBASOV T., ERDEMOGLU M.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.27, pp.193-198, 2006 (Journal Indexed in SCI)
- XX. **The investigation of the transient regimes in the nonlinear systems by the generalized classical method**  
Abbasov T., Bahadir A. R.  
MATHEMATICAL PROBLEMS IN ENGINEERING, pp.503-519, 2005 (Journal Indexed in SCI)
- XXI. **A numerical investigation of the liquid flow velocity over an infinity plate which is taking place in a magnetic field**  
Bahadir A. R. , Abbasov T.  
INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.21, pp.1-10, 2005 (Journal Indexed in SCI)

**XXII. Effect of operating parameters on magnetic filtration processes**

KUNKUL A., EKMEKYAPAR A., Akmil C., ABBASOV T.

INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.43, pp.161-165, 2004 (Journal Indexed in SCI)

**Articles Published in Other Journals**

**I. MODELING AND INVESTIGATION OF FERROFLUID MICRO TRANSFORMER AND INDUSTRIAL TYPE TRANSFORMER**

ABBASOV T., Kartaca K.

The International Journal of Energy & Engineering Sciences, vol.3, pp.86-100, 2018 (International Refereed University Journal)

**II. Seçilmiş Bir Pilot Bölgede Uzun Süreli ve Sürekli Elektromanyetik Kirlilik Seviyelerinin Ölçülmesi ve Haritalanması**

KARADAĞ T., ÖZDEMİR A. R. , ABBASOV T.

GAZI UNIVERSİTESİ FEN BİLİMLERİ DERGİSİ, vol.2, 2014 (Other Refereed National Journals)

**Refereed Congress / Symposium Publications in Proceedings**

**I. 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

**II. 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

**III. 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

**IV. 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

**V. 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

**VI. 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

**VII. 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

**VIII. 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

**IX. 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

- X. **Design and Analysis of Small Dimensional Magnetics Nuanced Transformer**  
ABBASOV T., Kartaca K.  
International Conference on Innovative Engineering Applications, Sivas, Turkey, 20 - 22 November 2018, pp.856-863
- XI. **Manyetik İvüveli Transformatörün Tasarımı ve İncelenmesi**  
ABBASOV T., Kartaca K., KARADAĞ T., Dikmen İ. C.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 October 2018, pp.241-244
- XII. **INVESTIGATION OF THE CHARACTERISTICS OF OUTPUT BY USING MAGNETIC FLUIDS IN AIR GAPS FORMED IN THE CORE OF A SINGLE PHASE TRANSFORMER**  
ABBASOV T., Kartaca K., KARADAĞ T., Dikmen İ. C.  
3rd International Energy & Engineering Congress, Gaziantep, Turkey, 18 - 19 October 2018, pp.964-973
- XIII. **Development and application of sensor network for autonomous vehicles**  
Kayaduman A., Arikan A., Dikmen I. C. , BAKIR H. G. , KARADAĞ T., ABBASOV T.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XIV. **Control method simulation and application for autonomous vehicles**  
Arikan A., Kayaduman A., Polat S., Simsek Y., Dikmen I. C. , BAKIR H. G. , KARADAĞ T., ABBASOV T.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XV. **Designing and Analysing of Ferrofluid Core Transformer**  
Kartaca K., ABBASOV T., KARADAĞ T., Ekici Y. E. , Dikmen I. C.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XVI. **Design and implementation of ultrasonic sonar system for autonomous vehicles**  
Seven S., Dikmen I. C. , KARADAĞ T., BAKIR H. G. , ABBASOV T.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XVII. **Electromagnetic field pollution measurements and mappings in a university settlement**  
Keskinkilinc U., Arikan A., Kizilaslan B., Tekin S., Komurkara T., ALTUNEL KILINÇ E., KARADAĞ T., Dikmen I. C. , BAKIR H. G. , Kartaca K., et al.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XVIII. **High Gain Rectangular Microstrip Array Antenna Design at 2.6GHz**  
Atas I., Kurt M. B. , ABBASOV T.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.581-584
- XIX. **Electric Field Measurements of a Base Statio at 2G and 3G Frequencies**  
ETEM T., ABBASOV T.  
12th International Conference on Perspective Technologies and Methods in MEMS Design (MEMSTECH), Lviv, Ukraine, 20 - 24 April 2016, pp.110-113
- XX. **High Gain Microstrip Antenna Design for 2.4GHz WLAN Application**  
Atas I., Kurt M. B. , ABBASOV T.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.556-559
- XXI. **Elektromanyetik Filtrelerin Tasarımı ve Çalışma Karakteristiklerinin Hesaplanması**  
ABBASOV T., KELEŞ C.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, ELECO'12, Bursa, Turkey, 29 November - 01 December 2012, vol.1, pp.1-4
- XXII. **Sudaki Manyetik Safsızlıkların Manyetik Filtrasyon ile Giderilmesi: Destek Vektör Makinaları Yöntemi**

### **ile Modelleme**

ÇOŞKUN M. A. , YILDIZ Z., YÜCEER A. M. , ABBASOV T.

9. Ulusal Çevre Mühendisliği Kongresi, Samsun, Turkey, 5 - 08 October 2011, pp.1

### **XXIII. Sudaki Manyetik Safsızlıkların Manyetik Filtrasyon ile Giderilmesi: Destek Vektör Makinaları Yöntemi ile Modelleme**

ÇOŞKUN M. A. , YILDIZ Z., YÜCEER A. M. , ABBASOV T.

9. Ulusal Çevre Mühendisliği Kongresi, Samsun, Turkey, 5 - 08 October 2011, pp.1

## **Invited Congress and Symposium Activities**

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Attendee, Ankara, Turkey, 2018

## **Citations**

Total Citations (WOS):124

h-index (WOS):7