



# Prof. İbrahim Yücel ÖZBEK

## Personal Information

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### International Researcher IDs

ScholarID: TIKLS9sAAAAJ

ORCID: 0000-0002-5734-7430

Publons / Web Of Science ResearcherID: A-6904-2016

ScopusID: 16231279000

Yoksis Researcher ID: 102872



## Education Information

2003 - 2010	Doctorate, Middle East Technical University, Fen Bilimleri, Kontrol, Turkey
2000 - 2002	Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kontrol, Turkey

## Dissertations

2010	DYNAMIC SYSTEM MODELING AND STATE ESTIMATION FOR SPEECH SIGNAL, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Doctorate
2002	AUTOMATIC SPEECH SEGMENTATION AND DATABASE ANNOTATION, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Postgraduate

## Research Areas

Electrical and Electronics Engineering, Electronic, Nanotechnology, Engineering and Technology

## Academic Titles / Tasks

2022 - Continues	Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği
2016 - Continues	Associate Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği

## Academic and Administrative Experience

2022 - Continues	Manager of Research and Application Center, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği
2021 - Continues	Assistant Coordinator, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği
2021 - Continues	Deputy Head of Department, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği
2021 - 2022	Fakülte Akademik Kurul Üyesi, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği

## Courses

2021 - 2022	Sayısal Devre Laboratuvarı, Undergraduate
2020 - 2021	Mühendisler için Elektrik-Elektronik Bilgisi, Undergraduate
2020 - 2021	Mühendisler için Elektrik Elektronik Bilgisi, Undergraduate
2021 - 2022	Elektrik Elektronik Seçmeli Tasarım, Undergraduate
2020 - 2021	ELEKTRİK DEVRE TEMELLERİ, Undergraduate
2020 - 2021	Derin Öğrenme ve Yapay Zeka Uygulamaları, Doctorate
2020 - 2021	Olasılık ve Rastlantı Değişkenleri, Undergraduate
2020 - 2021	EE SEÇMELİ TASARIM, Undergraduate
2021 - 2022	Analog Haberleşme, Undergraduate
2021 - 2022	Sinyaller ve Sistemler, Undergraduate
2021 - 2022	Analog Haberleşme, Undergraduate
2020 - 2021	Elektrik Devre Temelleri, Undergraduate
2021 - 2022	EE seçmeli Tasarım, Undergraduate
2020 - 2021	OLASILIK VE RASTLANTI DEĞİŞKENLERİ, Undergraduate
2021 - 2022	SİNYALLER VE SİSTEMLER, Undergraduate
2021 - 2022	Sayısal Devre Laboratuvarı, Undergraduate
2018 - 2019	DERİN ÖĞRENMEYE GİRİŞ, Postgraduate
2017 - 2018	KESTRİM TEORİSİ, Postgraduate
2018 - 2019	EE MÜHENDİSLERİ İÇİN İLERİ MATLAB, Postgraduate
2017 - 2018	RASGELE SİNYALLER VE İSTATİSTİKSEL SİNYAL İŞLEME, Postgraduate
2016 - 2017	EE MÜHENDİSLERİ İÇİN UYGULAMALI MATEMATİK, Doctorate

## Advising Theses

2022	Özbek İ. Y., Doctorate, F.DAL(Student), Çözücü buharının görüntüye dönüştürülerek derin öğrenme tabanlı sınıflandırma yaklaşımı ile kimlik ve konsantrasyon tespiti
2022	Özbek İ. Y., Aydemir Ö., Doctorate, O.ERDEM(Student), Eşzamanlı ve kişiden bağımsız çalışabilen olasılıksal 3-boyutlu sütun flaşlanması esaslı beyin bilgisayar arayüzü heceleme sistemi
2021	Özbek İ. Y., Postgraduate, A.NAJI(Student), Masa tenisi simülasyonu için derin öğrenme algoritmalarının karşılaştırılması
2019	Özbek İ. Y., Postgraduate, B.SOSLU(Student), Tel patlatma yöntemi ile nanotanecek sentezi
2019	Özbek İ. Y., Postgraduate, E.KARAKAŞ(Student), Derin sinir ağlarının füzyonu ile yüz imgelerinden yaş grubu ve cinsiyet sınıflandırma
2019	Özbek İ. Y., Postgraduate, N.MOSTAFA(Student), EEG sinyali kullanarak epileptik nöbetlerin gerçek zamanlı tahmini
2015	ÖZBEK İ. Y., Postgraduate, F.DAL(Student), KALP SESLERİ KULLANILARAK KİŞİ TANIMA
2015	ÖZBEK İ. Y., Postgraduate, S.UYĞUR(Student), ELEKTROKARDİYOĞRAFİ,FOTOPLETİSMOGRAFİ VE KALPSESİ ÇOKLU BİYOMETRİLERİNE DAYALI KİŞİ DOĞRULAMA:CİHAZ VE SİSTEM TASARIMI
2015	ÖZBEK İ. Y., Doctorate, H.SHAMSI(Student), DÜŞÜK KARMAŞIKLI ÖZNİTELİKLER KULLANILARAK SOLUNUM SESİ İÇERİSİNDEKİ KALP SESLERİNİN YERLERİNİN OLASILIKSAL MODELLEME İLE KESTİRİMİ
2014	ÖZBEK İ. Y., Postgraduate, S.COŞĞUN(Student), EKSPİRASYON AKIM VOLÜM EĞRİSİ İLE CİNSİYET, YAŞ, BOY KESTİRİMİ
2012	ÖZBEK İ. Y., Postgraduate, F.ÇAĞLAR(Student), KALP SESİ SINIRLARININ GÖĞÜS SESİ SINIRLARI İÇERİSİNDE BELİRLENMESİ

## Taught Courses And Trainings

2021 - 2021	Çavuşoğlu B., Özbek İ. Y., Kurşun E., Küçük S., Bozkurt F., Arpacık Ö., Kaba E., Çelik E., Keskenler M. F., Albayrak Ö., et al., Mobil Uygulama Kursu 2 - Yazılımcı İnsan Kaynağı Yetiştirme Projesi
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## Designed Courses And Trainings

March 2021	Keskenler M. F., Çavuşoğlu B., Kurşun E., Özbek İ. Y., Küçük S., Çelik E., Kılıç R., Albayrak Ö., Bozkurt F., Arpacık Ö., et al., Mobil Uygulama Kursu 2 - Yazılımcı İnsan Kaynağı Yetiştirme Projesi Protokolü
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## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Application of the Kalman Filter/Smoother for accurate material characterization of planar dielectric samples by using free-space measurements at sub-THz**  
HASAR U. C., Ozbek Y., Ozturk H., Korkmaz H., Hudlicka M.  
MEASUREMENT, vol.211, 2023 (SCI-Expanded)
- II. **A novel probabilistic and 3D column P300 stimulus presentation paradigm for EEG-based spelling systems**  
Korkmaz O. E., Aydemir Ö., Oral E. A., Özbek İ. Y.  
NEURAL COMPUTING & APPLICATIONS, vol.35, no.16, pp.11901-11915, 2023 (SCI-Expanded)
- III. **Comparison of spectrogram, persistence spectrum and percentile spectrum based image representation performances in drone detection and classification using novel HMFFNet: Hybrid Model with Feature Fusion Network**  
Kumbasar N., KILIÇ R., ORAL E. A., ÖZBEK İ. Y.  
Expert Systems with Applications, vol.206, 2022 (SCI-Expanded)
- IV. **An Efficient 3D Column-Only P300 Speller Paradigm Utilizing Few Numbers of Electrodes and Flashings for Practical BCI Implementation**  
Korkmaz O. E., Aydemir Ö., Oral E. A., Özbek İ. Y.  
Plos One, pp.1-18, 2022 (SCI-Expanded)
- V. **Drone classification using RF signal based spectral features**  
Kılıç R., Kumbasar N., Oral E. A., Özbek İ. Y.  
Engineering Science and Technology, an International Journal, vol.28, 2022 (SCI-Expanded)
- VI. **Investigating the Effect of COVID-19 Infection on P300 Based BCI Application Performance**  
Erdem O. E., AYDEMİR Ö., Argun E., Yucel İ. Y.  
TRAITEMENT DU SIGNAL, vol.38, no.6, pp.1767-1773, 2021 (SCI-Expanded)
- VII. **Prediction of water-adulteration within honey by air-line de-embedding waveguide measurements**  
Hasar H., Hasar U. C., Kaya Y., Ozturk H., Izginli M., Özbek İ. Y., Öztaş T., Canbolat M. Y., Ertugrul M.  
MEASUREMENT, vol.179, 2021 (SCI-Expanded)
- VIII. **Nondestructive optical characterization of Fabry-Pérot cavities by full spectra fitting method**  
Hasar U. C., ÖZBEK İ. Y., KARACALI T.  
IEEE Photonics Technology Letters, vol.30, no.15, pp.1404-1407, 2018 (SCI-Expanded)
- IX. **Biocompatible Brain Sensor Fabrication for Diagnosis and Treatment of Brain Disorders**  
ÖZBEK İ. Y.  
ACTA PHYSIOLOGICA, vol.221, pp.22, 2017 (SCI-Expanded)
- X. **Heart Sound Localization in Respiratory Sound Based on a New Computationally Efficient Entropy Bound**  
Ozbek Y., SHAMSI H.  
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, vol.21, no.1, pp.105-114, 2017 (SCI-Expanded)
- XI. **Characterization of Porous Silicon Fabry-Perot Optical Sensors for Reflectivity and Transmittivity**

## Measurements

Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.

IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.21, no.4, 2015 (SCI-Expanded)

- XII. **Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift**  
Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.  
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.27, no.6, pp.596-599, 2015 (SCI-Expanded)
- XIII. **A robust method for online heart sound localization in respiratory sound based on temporal fuzzy c-means**  
SHAMSİ H., ÖZBEK İ. Y.  
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.53, no.1, pp.45-56, 2015 (SCI-Expanded)
- XIV. **Low cost measurement setup based on a piezoelectric microphone for estimating apple bruising using Shannon entropy**  
ÖZBEK İ. Y., BOYDAŞ M. G., Kara M., DEMİR B.  
POSTHARVEST BIOLOGY AND TECHNOLOGY, vol.98, pp.23-29, 2014 (SCI-Expanded)
- XV. **Robust heart sound detection in respiratory sound using LRT with maximum a posteriori based online parameter adaptation**  
SHAMSİ H., ÖZBEK İ. Y.  
MEDICAL ENGINEERING & PHYSICS, vol.36, no.10, pp.1277-1287, 2014 (SCI-Expanded)
- XVI. **An efficient laser sensor system for apple impact bruise volume estimation**  
BOYDAŞ M. G., ÖZBEK İ. Y., Kara M.  
POSTHARVEST BIOLOGY AND TECHNOLOGY, vol.89, pp.49-55, 2014 (SCI-Expanded)
- XVII. **Novel Design of Porous Silicon Based Sensor for Reliable and Feasible Chemical Gas Vapor Detection**  
KARACALI T., Hasar U. C., ÖZBEK İ. Y., ORAL E. A., EFEOĞLU H.  
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.31, no.2, pp.295-305, 2013 (SCI-Expanded)
- XVIII. **The effect of silicon loss and fabrication tolerance on spectral properties of porous silicon Fabry-Perot cavities in sensing applications**  
Hasar U., Özbek İ. Y., Oral E. A., Karacalı T., Efeoğlu H.  
Optics Express, vol.20, no.20, pp.22208-22223, 2012 (SCI-Expanded)
- XIX. **On Improving Dynamic State Space Approaches to Articulatory Inversion With MAP-Based Parameter Estimation**  
ÖZBEK İ. Y., Hasegawa-Johnson M., Demirekler M.  
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, vol.20, no.1, pp.67-81, 2012 (SCI-Expanded)
- XX. **RETRIEVAL OF EFFECTIVE ELECTROMAGNETIC PARAMETERS OF ISOTROPIC METAMATERIALS USING REFERENCE-PLANE INVARIANT EXPRESSIONS**  
Hasar U. C., Barroso J. J., SABAH C., ÖZBEK İ. Y., KAYA Y., DAL D., AYDIN T.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.132, pp.425-441, 2012 (SCI-Expanded)
- XXI. **Estimation of Articulatory Trajectories Based on Gaussian Mixture Model (GMM) With Audio-Visual Information Fusion and Dynamic Kalman Smoothing**  
ÖZBEK İ. Y., Hasegawa-Johnson M., Demirekler M.  
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, vol.19, no.5, pp.1180-1195, 2011 (SCI-Expanded)
- XXII. **A METRIC FUNCTION FOR FAST AND ACCURATE PERMITTIVITY DETERMINATION OF LOW TO HIGH LOSS MATERIALS FROM REFLECTION MEASUREMENTS**  
HASAR U. C., ORAL E. A., ÖZBEK İ. Y.  
Progress In Electromagnetics Research-Pier, vol.107, pp.397-412, 2010 (SCI-Expanded)
- XXIII. **Dynamic Speech Spectrum Representation and Tracking Variable Number of Vocal Tract Resonance Frequencies With Time-Varying Dirichlet Process Mixture Models**  
ÖZKAN E., Ozbek I. Y., Demirekler M.  
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, vol.17, no.8, pp.1518-1532, 2009 (SCI-

Expanded)

## Articles Published in Other Journals

- I. **Classification of Plant Diseases with Artificial Intelligence**  
Akarsu E., Tiryaki B., Özbek İ. Y.  
3rd International Conference on Applied Engineering and Natural Sciences, no.3, pp.10-12, 2022 (Conference Book)
- II. **Kişiden Bağımsız Çevrimiçi P300-Tabanlı Beyin-Bilgisayar Arayüzü Sınıflandırma Modeli Oluşturulması**  
Korkmaz O. E., Aydemir Ö., Oral E. A., Özbek İ. Y.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.1, pp.73-85, 2022 (Peer-Reviewed Journal)
- III. **Age Group and Gender Classification from Facial Images Based on Deep Neural Network Fusion**  
Özbek İ. Y.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, pp.150-158, 2021 (Peer-Reviewed Journal)
- IV. **Production of Kanthal-D Nanoparticles Using Exploding Wire Method**  
Özbek İ. Y.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, pp.141-149, 2021 (Peer-Reviewed Journal)
- V. **Epileptic Seizure Detection based on EEG Signal using Boosting Classifiers**  
Özbek İ. Y.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, pp.159-167, 2021 (Peer-Reviewed Journal)
- VI. **Uydu Görüntülerinden Çok Ölçekli Uçak Tespiti**  
Özbek İ. Y.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.126, pp.322-327, 2021 (Peer-Reviewed Journal)
- VII. **Hangar Detection from Satellite Images with Mask-RCNN and YOLOv2 Algorithms**  
Kumbasar N., Ömeroğlu A. N., Oral E. A., Özbek İ. Y.  
Brilliant Engineering (BEN), vol.1, no.2, pp.5-9, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **DİJİTAL DÖNÜŞÜMÜN KANITA DAYALI DEĞERLENDİRİLMESİ**  
Albayrak Ünal Ö., Özbek İ. Y., ErKayman B.  
in: DİJİTAL ÜNİVERSİTE Dönüşümün Yol Haritası, Çavuşoğlu Bülent, Küçük Sevda, Editor, Atatürk Üniversitesi Yayınları, Erzurum, pp.223-241, 2022
- II. **Optical Characterization of Porous Silicon Multilayers**  
HASAR U. C., ÖZBEK İ. Y., KARACALI T.  
in: Handbook of Porous Silicon, Canham Leigh, Editor, Springer, pp.1-12, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Pneumonia Detection with Different Classifiers in the Hybrid Model Approach**  
Kılıç R., Sağlam H. K., Oral E. A., Özbek İ. Y.  
4th International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 28 - 30 September 2022, pp.170-176
- II. **Yükseköğretim Kurumları İçin Dijital Dönüşümde Yedi Boyutlu Stratejik Model**  
Küçük S., Çavuşoğlu B., Özbek İ. Y., ErKayman B., Kılıç R., Albayrak Ünal Ö., Çelik E., Keskenler M. F.  
5th International Open & Distance Learning Conference, Eskişehir, Turkey, 28 - 30 September 2022, pp.1322-1323
- III. **Creation and Evaluation of Digital Transformation Index in Higher Education: The Case of Atatürk University**

Keskenler M. F., Çelik E., Albayrak Ünal Ö., Kılıç R., Küçük S., Erkayman B., Özbek İ. Y., Çavuşoğlu B.

Uluslararası Mühendislik ve Tarım Bilimleri Kongresi (ENAG 2022), Konya, Turkey, 26 - 29 September 2022, pp.1

- IV. **Classification of Plant Diseases with Artificial Intelligence**  
Akarsu E., Tiryaki B., Özbek İ. Y.  
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, no.3, pp.10-12
- V. **Real-Time Fixed-Point Hardware Accelerator of Convolutional Neural Network on FPGA Based**  
Özkılbaç B., Özbek İ. Y., Karacalı T.  
5TH INTERNATIONAL CONFERENCE ON COMPUTING AND INFORMATICS, Cairo, Egypt, 9 - 10 March 2022, pp.304-308
- VI. **Detection of Moving Target Direction for Ground Surveillance Radar Based on Deep Learning**  
**Yer Gözetleme Radarı İçin Derin Öğrenme Tabanlı Hareketli Hedef Yönü Tespiti**  
ÖMEROĞLU A. N., Mohammed H. M. A., ORAL E. A., ÖZBEK İ. Y.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- VII. **Multiple Barcode Detection with Mask R-CNN**  
Polat E., Mohammed H. M. A., Ömeroğlu A. N., Kumbasar N., Özbek İ. Y., Oral E. A.  
28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- VIII. **Voice Pathology Classification Using Machine Learning**  
Mohammed H. M. A., Ömeroğlu A. N., Polat M., Oral E. A., Özbek İ. Y.  
2nd International Symposium on Applied Science and Engineering (ISASE-2021), Erzurum, Turkey, 7 - 09 April 2021, pp.354-357
- IX. **Classification of Snoring Sounds**  
Kılıç R., Kumbasar N., Sağlam H. K., Oral E. A., Özbek İ. Y.  
ISASE 2021, Erzurum, Turkey, 7 - 09 April 2021, pp.387-390
- X. **Sleep Stage Classification From Polysomnography Signals by Using Long Short Term Memory**  
DURANOĞLU TUNÇ H. S., ÖZBEK İ. Y., ERTUĞRUL M.  
2020 28th Signal Processing and Communications Applications Conference (SIU), 5 - 07 January 2021
- XI. **Influence of DC Current in Cu-Covetic Formation**  
ORAL E. A., ERTUĞRUL M., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T.  
4th International Symposium on Advanced Materials and Nanotechnology 2020 (iSAMN2020), Malaysia, 1 - 03 December 2020
- XII. **Influence of DC Current in Cu-Covetics Formation**  
ORAL E. A., ERTUĞRUL M., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T.  
i-SAMN2020, Selangor, Malaysia, 1 - 03 December 2020, pp.305-309
- XIII. **Hangar Detection with Mask R-CNN Algorithm**  
Nur Omeroglu A., Kumbasar N., Argun Oral E., Ozbek I.  
2019 27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019, pp.1-4
- XIV. **Uydu Görüntüleriyle Heliport Tespiti**  
Kılıç R., Evcan Ertaş S., Sağlam H. K., Oral E. A., Özbek İ. Y.  
2019 SIU Sinyal İşleme ve İletişim Uygulamaları, Sivas, Turkey, 24 - 26 April 2019, pp.527
- XV. **Uydu Görüntüleriyle Heliport Tespiti**  
SAĞLAM H. K., KILIÇ R., ERTAŞ S., ORAL E. A., ÖZBEK İ. Y.  
27. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Sivas, Turkey, 24 - 26 April 2019, pp.1
- XVI. **Radome Detection from Satellite Images Using ATA-Radome Data Set**  
Mohammed H. M. A., Polat M., ORAL E. A., ÖZBEK İ. Y.  
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- XVII. **Aircraft Detection from Satellite Images Using ATA-Plane Data Set**  
Polat M., Mohammed H. M. A., ORAL E. A., ÖZBEK İ. Y.

- XVIII. **Detection of Diabetic Retinopathy with Integration of Deep Learning**  
Sağlam H. K., Kılıç R., Oral E. A., Özbek İ. Y.  
ISASE2018, Erzurum, Turkey, 26 - 28 November 2018
- XIX. **Lane Detection with Convolutional Neural Network**  
ORAL E. A., ABDO MOHAMMED H. M., ÖZBEK İ. Y.  
ISASE2018, 26 - 28 November 2018
- XX. **Classification of Images Obtained by SAR (Synthetic Aperture Radar) Data**  
KUMBASAR N., ORAL E. A., Omeroglu A. N., ÖZBEK İ. Y., ABDO H. M.  
ISASE2018, 26 - 28 November 2018
- XXI. **Ship Detection In Satellite Images**  
POLAT M., ÖZBEK İ. Y., ORAL E. A.  
ISASE2018, 26 - 28 November 2018
- XXII. **Detection of Plant Disease From Plant Image**  
Kılıç R., Sağlam H. K., Oral E. A., Özbek İ. Y.  
ISASE2018, Erzurum, Turkey, 26 - 28 November 2018
- XXIII. **Vehicle Detection Based on Semantic Segmentation**  
ÖMEROĞLU A. N., ORAL E. A., KUMBASAR N., ÖZBEK İ. Y., ABDO H. M.  
ISASE2018, 26 - 28 November 2018
- XXIV. **Traffic Sign Recognition Using Deep Convolutional Neural Network**  
TİRYAKI B., ORAL E. A., ÖZBEK İ. Y.  
ISASE2018, 26 - 28 November 2018
- XXV. **In vivo Sensors and Biotechnological Neuroscience Implementations**  
HACİMÜFTÜOĞLU A., ÇAVUŞOĞLU B., ÖZBEK İ. Y., ERTUĞRUL M., OKKAY U., TAGHIZADEHGHALEHJOUGHİ A.  
International Ivek Bio Congress, 26 - 28 November 2018
- XXVI. **Lane Detection with Convolutional Neural Network**  
Mohammed H. M. A., Ömeroglu A. N., Kumbasar N., Oral E. A., Özbek İ. Y.  
INTERNATIONAL SYMPOSIUM ON APPLIED SCIENCES AND ENGINEERING, 26 - 28 November 2018, pp.150-153
- XXVII. **Traffic Sign Recognition Using Deep Convolutional Neural Network**  
Tiryaki B., Oral E. A., Özbek İ. Y.  
ISASE2018, Erzurum, Turkey, 26 - 28 November 2018, pp.134-136
- XXVIII. **Gender Detection with Heart Sound Using MFCC-based Statistical**  
DAL F., ÖZBEK İ. Y.  
ELECO 2017, 30 November - 02 December 2017
- XXIX. **Gender Classification Based on EEG Signal**  
ÇODUR M. M., ORAL E. A., ÖZBEK İ. Y.  
EUSIPCO 2017, 28 August - 02 September 2017
- XXX. **Sleep Stage Classification Based on EEG signal**  
ORAL E. A., ÇODUR M. M., ÖZBEK İ. Y.  
ICADET 2017, 21 - 23 September 2017
- XXXI. **Cepstrum Coefficients Based Sleep Stage Classification**  
ORAL E. A., ÇODUR M. M., ÖZBEK İ. Y.  
GLOBALSIP2017, 14 - 16 November 2017
- XXXII. **Amperometric Brain Sensors for Monitoring Dopamine Concentration**  
Acar M., Aras G., Özbek İ. Y., Çavuşoğlu B., Hacımüftüoğlu A.  
NANOTR 2017, Antalya, Turkey, 22 - 25 October 2017
- XXXIII. **Beyin Hastalıkları Araştırmalarında Biyoyumlu Mikroelektrot Fabrikasyonu''**  
ÖZBEK İ. Y.  
43. ULUSAL FİZYOLOJİ KONGRESİ, 7 - 10 September 2017
- XXXIV. **Gender clasification based on single channel EEG signal Tek kanalli EEG sinyali ile cinsiyet sınıflandırma**

- ORAL E. A., ÖZBEK İ. Y., Çodur M. M.  
2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017
- XXXV. **Generalized filter bank design for sleep stage classification Genelleştirilmiş süzgeç kümesi tasarımı ile uyku evresi sınıflandırma**  
ORAL E. A., Çodur M. M., ÖZBEK İ. Y.  
2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017
- XXXVI. **Gender Classification Based on EEG Signal**  
ÇODUR M. M., ORAL E. A., ÖZBEK İ. Y.  
ICADET 2017, 21 - 23 September 2017
- XXXVII. **Sleep stage classification based on filter bank optimization Süzgeç Kümesi Optimizasyonu ile Uyku Evresi Sınıflandırma**  
ORAL E. A., Codur M. M., ÖZBEK İ. Y.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XXXVIII. **Age estimation based on forced expiratory spirometry Zorlu Ekspirasyon Spirometri ile Yas Kestirimi**  
Cosgun S., ÖZBEK İ. Y.  
20th National Biomedical Engineering Meeting, BIYOMUT 2016, İzmir, Turkey, 3 - 05 December 2016
- XXXIX. **Generalized Filter Bank Design For Sleep Stage Classification**  
Oral E. A., Codur M. M., ÖZBEK İ. Y.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XL. **Gender Detection with Heart Sound Using MFCC-based Statistical Features**  
Dal F., ÖZBEK İ. Y.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.553-556
- XLI. **Sleep Stage Classification Based on Filter Bank Optimization**  
Oral E. A., Codur M. M., ÖZBEK İ. Y.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLII. **Gender Classification Based on Single Channel EEG Signal**  
Oral E. A., ÖZBEK İ. Y., ÇODUR M. M.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XLIII. **Age Estimation Based on Forced Expiratory Spirometry**  
COŞĞUN S., ÖZBEK İ. Y.  
Biyomut, 3 - 05 November 2016
- XLIV. **Gender Detection with Heart Sound Based on SVM**  
DAL F., ÖZBEK İ. Y.  
Biyomut, 3 - 05 November 2016
- XLV. **BIOCOMPATIBLE CERAMIC BASED MICROELECTROD FABRICATION FOR DIAGNOSIS AND TREATMENT OF BRAIN DISORDERS**  
ACAR M., ARAS G., ÖZBEK İ. Y., ORAL E. A., ÇAVUŞOĞLU B.  
ICENS, 24 - 28 May 2016
- XLVI. **BIOCOMPATIBLE CERAMIC BASED MICROELECTROD FABRICATION FOR DIAGNOSIS AND TREATMENT OF BRAIN DISORDERS**  
ACAR M., ARAS G., ÖZBEK İ. Y., ORAL E. A., ÇAVUŞOĞLU B.  
International Conference on Engineering and Natural Sciences (ICENS) 2016, 24 - 28 May 2016
- XLVII. **BIOCOMPATIBLE CERAMIC-BASED MICROELECTROD FABRICATION FOR**  
ACAR M., ARAS G., ÖZBEK İ. Y., ORAL E. A., ÇAVUŞOĞLU B.  
ICENS, 24 May 2016



- XLVIII. **BIOCOMPATIBLE CERAMIC-BASED MICROELECTROD FABRICATION FOR DIAGNOSIS AND TREATMENT OF BRAIN DISORDERS**  
ACAR M., ARAS G., ÖZBEK İ. Y., ORAL E. A., ÇAVUŞOĞLU B.  
ICENS, Sarejova, Bosnia And Herzegovina, 24 May 2016, pp.129
- XLIX. **BIOCOMPATIBLE CERAMIC-BASED MICROELECTROD FABRICATION FOR DIAGNOSIS AND TREATMENT OF BRAIN DISORDERS**  
ACAR DEMİR M., ARAS G., ÖZBEK İ. Y., ORAL E. A., ÇAVUŞOĞLU B.  
ICENS, Sarejova, Bosnia And Herzegovina, 24 May 2016, pp.129
- L. **The Effect of Bazal Noise Reduction Method for Improving the Limit of Detection LOD of the Microsensor on In Vivo Neurotransmitter Analysis**  
KOÇ H., GÜLŞAH K., GEYİKOĞLU M. D., MUHAMMET EMİN D., ACAR M., ÇAVUŞOĞLU B., ÖZBEK İ. Y., ORAL E. A., HACİMÜFTÜOĞLU A., SÖNMEZ E., et al.  
ELECTROTECH 2015, 2 - 04 November 2015
- LI. **Fabrication of A New Ceramic Based Microelectrode for Measurement of Neurotransmitter In The Central Nervous System**  
Acar M., Shamsi H., Oyar O., Özbek İ. Y., Hacımüftüoğlu A., Çavuşoğlu B., Oral E. A., Karacalı T., Sönmez E., Ertuğrul M., et al.  
DAKAM, Electrotech '15, III. International Electrical & Electronic Engineering and Technologies Conference, İstanbul, Turkey, 2 - 03 October 2015
- LII. **Fabrication of a New Ceramic based Microelectrode for Measurement of Neurotransmitters in the Central Nervous System**  
ACAR M., SHAMSI H., OĞUZHAN O., KOÇ H., ÖZBEK İ. Y., ÇAVUŞOĞLU B., ORAL E. A., HACİMÜFTÜOĞLU A., SÖNMEZ E., KARACALI T., et al.  
ELECTROTECH '15, 2 - 04 October 2015
- LIII. **Fabrication of a New Ceramic-based Microelectrode for Measurement of Neurotransmitters in the Central Nervous System**  
ACAR M., KOÇ H., ÖZBEK İ. Y., HACİMÜFTÜOĞLU A., ÇAVUŞOĞLU B., ORAL E. A., KARACALI T., SÖNMEZ E., ERTUĞRUL M., EFEOĞLU H.  
ELECTROTECH, 2 - 03 October 2015
- LIV. **The effect of Baseline Noise reduction method for improving The Limit od Detection LOD of The Microsensor on in vivo Neorutransmitter Analysis**  
KOÇ H., kadihasanoğlu g., Geyikoğlu M. D., Dertli M. E., ACAR M., ÇAVUŞOĞLU B., ÖZBEK İ. Y., ORAL E. A., HACİMÜFTÜOĞLU A., SÖNMEZ E., et al.  
23. Sinyal İşleme ve İletişimi Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.201-205
- LV. **Beyin Hastalıklarının Tanı Ve Tedavisi İçin Mikroelektrot Fabrikasyonu**  
ACAR M., SHAMSI H., ÖZBEK İ. Y.  
SİU, Malatya, Turkey, 16 - 19 May 2015, pp.1
- LVI. **Improving the limit of detection (LOD) of microsensor used in detection of brain diseases via wavelet filter**  
KOC H., KADIHASANOGLU G., GEYIKOGLU M. D., DERTLI M. E., ÇAVUŞOĞLU B., OZBEK I. Y., ORAL E. A., HACİMÜFTÜOĞLU A., HACİMÜFTÜOĞLU A., SÖNMEZ E., et al.  
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015 - Proceedings, Malatya, Turkey, 16 - 19 May 2015, pp.1676-1679
- LVII. **Improving the limit of detection (LOD) of microsensor used in detection of brain diseases via wavelet filter**  
KOC H., KADIHASANOGLU G., GEYIKOGLU M. D., DERTLI M. E., ÇAVUŞOĞLU B., ÖZBEK İ. Y., ORAL E. A., HACİMÜFTÜOĞLU A., HACİMÜFTÜOĞLU A., SÖNMEZ E., et al.  
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015 - Proceedings, Malatya, Turkey, 16 - 19 May 2015, pp.1676-1679
- LVIII. **Beyin Hastalıklarının Tanı Ve Tedavisi İçin Mikroelektrot Fabrikasyonu**  
ACAR M., SHAMSI H., ÖZBEK İ. Y.

SIU, Malatya, Turkey, 16 - 19 May 2015, pp.1

- LIX. **Age Group Classification and Gender Detection Based on Forced Expiratory Spirometry**  
COŞĞUN S., ÖZBEK İ. Y.  
37th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.550-553
- LX. **Microelectrod fabrication for diagnosis and treatment of brain disorders Beyin Hastaliklarinin Tani Ve Tedavisi İçin Mikroelektrot Fabrikasyonu**  
ACAR M., Shamsi H., Oyar O., ÖZBEK İ. Y., HACİMÜFTÜOĞLU A., ÇAVUŞOĞLU B., ORAL E. A., KARACALI T., SÖNMEZ E., ERTUĞRUL M., et al.  
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.2058-2061
- LXI. **Improving the limit of detection (LOD) of microsensor used in detection of brain diseases via wavelet filter Beyin Hastaliklarinin Tanisinda Kullanilan Mikrosensörün Dalgacik Filtre Kullanilarak Algilama Alt Sinirinin Iyileştirilmesi**  
Koc H., Kadihasanoglu G., Geyikoglu M. D., DERTLİ M. E., ÇAVUŞOĞLU B., ÖZBEK İ. Y., ORAL E. A., HACİMÜFTÜOĞLU A., SÖNMEZ E., KARACALI T., et al.  
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.1676-1679
- LXII. **Gender prediction based on the expiratory flow volume curve Ekspirasyon Akım-Vollim Egrisine Dayalı Cinsiyet Tahmini**  
COŞĞUN S., ÖZBEK İ. Y.  
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.2119-2121
- LXIII. **Gender Prediction Based On The Expiratory Flow Volume Curve**  
Cosgun S., ÖZBEK İ. Y.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2118-2121
- LXIV. **Gender Detection with Heart Sound**  
DAL F., COŞĞUN S., ÖZBEK İ. Y.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2362-2365
- LXV. **Solunum Fonksiyon Testine Bağlı Cinsiyet Tanıma**  
COŞĞUN S., ÖZBEK İ. Y.  
2014 18. IEEE Biyomedikal Mühendisliği Ulusal Toplantısı (BIYOMUT), İstanbul, Turkey, 15 - 19 October 2014
- LXVI. **New Silicon Based Multisite Microelectrode Fabrication for Neurotransmitter Concentration Detection**  
SHAMSİ H., ACAR M., OYAR O., ÖZBEK İ. Y., HACİMÜFTÜOĞLU A., ORAL E. A., ÇAVUŞOĞLU B., SÖNMEZ E., KARACALI T., ERTUĞRUL M., et al.  
10th Nanoscience and Nanotechnology Conference, June 2014, Istanbul, TURKEY, Turkey, 17 - 21 July 2014
- LXVII. **Gender Detection Based on Pulmonary Function Test**  
Cosgun S., ÖZBEK İ. Y.  
18th National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 16 - 17 October 2014
- LXVIII. **Heart Sound Detection in Respiratory Sound Using Hidden Markov Model**  
SHAMSİ H., ÖZBEK İ. Y.  
2013 21th European Signal Processing Conference (EUSIPCO), Marrakech, Morocco, 9 - 15 September 2013
- LXIX. **Online Estimation of Lower and Upper Bounds for Heart Sound Boundaries in Chest Sound Using Convex Hull Algorithm**  
ÇAĞLAR F., ÖZBEK İ. Y.  
2012 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 28 August - 01 September 2012
- LXX. **Heart Sound Localization in Chest Sound Using Temporal Fuzzy c Means Classification**

SHAMSI H., ÖZBEK İ. Y.

2012 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), San Diego, CA, 28 August - 01 September 2012

- LXXI. **Göğüs Sesi İçerisinde Kalp Sesi Yerlerinin Tespitinde Çevrimiçi Ekleme Hatasının Azaltılması**  
ÇAĞLAR F., ÖZBEK İ. Y.  
2012 Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu (ASYU), Trabzon, Turkey, 12 - 14 July 2012
- LXXII. **Türkçe deki Patlamalı Seslerin Locus Denklemleri**  
AKDEMİR E., ÖZBEK İ. Y., ÇİLOĞLU T.  
2012 20. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012
- LXXIII. **Heart Sound Localization In Chest Sound Using Convex Hull Algorithm**  
ÇAĞLAR F., ÖZBEK İ. Y.  
2011 7th International Conference Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 15 December - 15 October 2011
- LXXIV. **Kalp Seslerinin Göğüs Sesi İçerisinde Uyarlamalı Eşik Değeri ile Bulunması**  
ÇAĞLAR F., ÖZBEK İ. Y.  
2011 15. IEEE Biyomedikal Mühendisliği Ulusal Toplantısı (BIYOMUT), Antalya, Turkey, 13 - 15 October 2011
- LXXV. **ML vs MAP Parameter Estimation of Linear Dynamic Systems for Acoustic to Articulatory Inversion A Comparative Study**  
ÖZBEK İ. Y., DEMİREKLER M.  
2010 18th European Signal Processing Conference (EUSIPCO), Aalborg, Denmark, 23 - 27 August 2010
- LXXVI. **Akustik ve Görsel Veriler Kullanılarak Artikülasyon Hareketlerinin Gauss Karışım Modellerine GKM Dayalı Kestirimi**  
ÖZBEK İ. Y., DEMİREKLER M.  
2010 18. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), Diyarbakir, Turkey, Turkey, 22 - 24 April 2010
- LXXVII. **Formant Trajectories for Acoustic to Articulatory Inversion**  
ÖZBEK İ. Y., HASEGAWA JOHNSON M., DEMİREKLER M.  
2009 10th Annual Conference of the International Speech Communication Association (INTERSPEECH), Brighton, United Kingdom, 9 - 11 April 2009
- LXXVIII. **FROM ACOUSTICS TO VOCAL TRACT TIME FUNCTIONS**  
Mitra V., Oezbek I. Y., Nam H., Zhou X., Espy-Wilson C. Y.  
IEEE International Conference on Acoustics, Speech and Signal Processing, Taipei, Taiwan, 19 - 24 April 2009, pp.4497-4498
- LXXIX. **Dağıtık Mimarili Savunma Sistemlerinde Füzyon Katmanlarının Birleştirilerek İzleme Başarımının İyileştirilmesi**  
DEMİREKLER M., ÖZKAN E., ÖZBEK İ. Y.  
2008 Savunma Teknolojileri Kongresi (SAVTEK), Ankara, Turkey, 19 - 21 June 2008
- LXXX. **Ses Yolu Rezonans Frekanslarının Dinamik Programlama ve Kalman Süzgeci Yardımıyla İzlenmesi**  
ÖZBEK İ. Y., DEMİREKLER M.  
2008 16. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), Aydın, Turkey, Turkey, 20 - 22 April 2008
- LXXXI. **Vocal tract resonances tracking based on voiced and unvoiced speech classification using dynamic programming and fixed interval Kalman smoother**  
Oezbek I. Y., Demirekler M.  
33rd IEEE International Conference on Acoustics, Speech and Signal Processing, Nevada, United States Of America, 30 March - 04 April 2008, pp.4217-4220
- LXXXII. **Ses Sinyalinin Formant Frekanslarının İzlenmesi**  
ÖZBEK İ. Y., DEMİREKLER M.  
2006 14. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), Antalya, Turkey, Turkey, 12 - 14 October 2006
- LXXXIII. **Tracking of Visible Vocal Tract Resonances VVTR Based on Kalman Filtering**  
ÖZBEK İ. Y., DEMİREKLER M.

2006 7th Annual Conference of the International Speech Communication Association (INTERSPEECH), Pittsburgh, Pennsylvania, United States Of America, 7 - 09 April 2006

LXXXIV. **KYDP Algoritması ile Sözcük Bölütlendirmede Ses Süre Bilgisinin ve Farklı Öznitelik Vektörlerinin Kullanılması ile Doğruluk Oranının Artırılması**

ÖZBEK İ. Y., DEMİREKLER M., ÇİLOĞLU T.

2003 11. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), İstanbul, Turkey, Turkey, 9 - 11 April 2003

LXXXV. **Yalıtılmış Türkçe Kelimelerin Genetik Algoritma ile Otomatik Olarak Bölütlendirilmesi**

ÖZBEK İ. Y., ÇİLOĞLU T., ORGUNER U., LEBLEBİCİOĞLU M. K., DEMİREKLER M.

2003 11. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU), İstanbul, Turkey, Turkey, 9 - 11 April 2003

## Supported Projects

2022 - Continues	Gerçek Zamanlı Yapay Zeka Tabanlı Beyin Bilgisayar Arayüzü Sistem Prototipinin Geliştirilmesi, Project Supported by Higher Education Institutions
2022 - Continues	Kokunun Görüntüye Dönüştürülmesi ve Derin Öğrenme ile Koku Sensörü, Project Supported by Higher Education Institutions
2021 - Continues	Yapay Zeka Yaklaşımıyla Panoramik Radyografi ve Konik Işınlı Bilgisayarlı Tomografi Görüntüleri Kullanılarak Mandibular Gömülü Üçüncü Molar Dişler İçin Tedavi Planlaması, Project Supported by Higher Education Institutions
2021 - Continues	Alveolar Ekinokok Hastalığının Yapay Zekaya Dayalı Hibrit Model ve Öznitelik Füzyon Ağı (A.EkinoNet) ile Tespitinin Yapılması, Project Supported by Higher Education Institutions
2020 - Continues	Covid19 Sensörü, Project Supported by Higher Education Institutions
2022 - 2023	Lisansüstü Danışman Atama Karar Destek Sistemi, Project Supported by Higher Education Institutions
2022 - 2023	Atatürk Üniversitesi Öğretim Üyelerinin Dijital Yeterliliklerinin Değerlendirilmesi, Project Supported by Higher Education Institutions
2022 - 2022	Dijital Dönüşümde 7 Boyutlu Stratejik Model, Project Supported by Higher Education Institutions
2021 - 2022	Hesaplama Bilim ve Mühendislik Uygulamaları için Merkezi İşlem Birim CPU Tabanlı Yüksek Başarılı Hesaplama Sistemi Gerçeklemesi, Project Supported by Higher Education Institutions
2021 - 2022	Genel Amaçlı GPU Programlama veya Hesaplama Sistemi Tasarımı ve Çoklu Görevlerde Performans Analizlerinin Yapılması, Project Supported by Higher Education Institutions
2021 - 2022	Üniversiteler İçin Dijital Dönüşüm Endeksi Oluşturulması ve Atatürk Üniversitesinde Uygulanması, Project Supported by Higher Education Institutions
2019 - 2020	EEG İşaretleri Kullanarak Hasta İhtiyaç Ekranının Beyin Bilgisayar Arayüzü ile Kontrolü, Project Supported by Higher Education Institutions
2018 - 2020	EEG İşaretleri Kullanarak Hasta İhtiyaç Ekranının Beyin Bilgisayar Arayüzü ile Kontrolü, Project Supported by Higher Education Institutions
2017 - 2020	117E114: İletim Hatları İçin Enerji Verimli Kovetik Tel Üretimi Ve Veri İletim Performanslarının Belirlenmesi, TUBITAK Project
2016 - 2017	KARBON NANOTÜPLERİN İLETKEN TEL BOYUNCA PARALEL HALE GETİRİLMESİ, Project Supported by Higher Education Institutions
2013 - 2017	Beyin Hastalıklarının Tanı ve Tedavisinde Yeni Yöntem In Vivo Mikrosensör Teknolojisi, TUBITAK Project

## Patent

2022	Patent
2022	Patent
2021	Patent

2021	Patent
2020	Patent
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2020	Patent
2020	Patent
2020	Patent
2020	Patent
2019	Patent

## Tasks In Event Organizations

24 Kasım 2021	Vangölu S. Y., Kadiođlu Y., Mavi A., Çetin M., Alanyalođlu M., Ceyhun S. B., Ekinci D., Erat M., Karacalı T., Öznülüer Özer T., et al., World Congress on Applied Nanotechnology, Scientific Congress, Erzurum, Turkey
07 Nisan 2021	Özbek İ. Y., 2nd International Symposium on Applied Science and Engineering (ISASE 2021), Scientific Congress, Erzurum, Turkey
07 Nisan 2021	Özbek İ. Y., 2nd International Symposium on Applied Science and Engineering (ISASE 2021), Scientific Congress, Erzurum, Turkey

## Metrics

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