

Asst. Prof. ERŐAN ÖMER YÜZER

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GPX-0692-2022

ScopusID: 46461994000

Yoksis Researcher ID: 31949

Education Information

Doctorate, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (Dr), Turkey 2019 - 2023

Undergraduate, Yıldız Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 2020 - 2021

Associate Degree, Ataturk University, Açıköğretim Fakültesi, Mülkiyet Koruma Ve Güvenlik Bölümü, Turkey 2015 - 2017

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 2009 - 2011

Undergraduate, Marmara University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1996 - 2000

Dissertations

Doctorate, Bölgesel güneş enerji potansiyelinin belirlenmesinde yeni bir yaklaşım, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (Dr), 2023

Postgraduate, Düşük düşümlü mikro hidroelektrik santralleri için sabit mıknatıslı bir senkron generatör tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 2011

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Energy, Lighting Technology, Generating Stations and Plants, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Hakkari University, Çölemerik Meslek Yüksekokulu, Elektrik Ve Enerji, 2025 - Continues

Lecturer, Hakkari University, Çölemerik Meslek Yüksekokulu, Elektrik Ve Enerji, 2009 - 2025

Academic and Administrative Experience

Head of Department, Hakkari University, Çölemerik Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2025 - Continues

Hakkari University, 2013 - 2013

Courses

Undergraduate

ELEKTRİK TESİSAT PLANLARI, Undergraduate, 2009 - 2010

GÜÇ ELEKTRONİĞİ, Undergraduate, 2009 - 2010

Associate Degree

System Analysis and Design - II, Associate Degree, 2024 - 2025

Energy Management, Associate Degree, 2024 - 2025

System Analysis and Design - I, Associate Degree, 2024 - 2025

Electric Energy Production, Transmission and Distribution, Associate Degree, 2024 - 2025

Elektrik Enerjisi Üretim İletim ve Dağıtım, Associate Degree, 2022 - 2023, 2021 - 2022

Sistem Analizi ve Tasarım - I, Associate Degree, 2022 - 2023, 2020 - 2021, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Sistem Analizi ve Tasarım - II, Associate Degree, 2020 - 2021

Yüksek Gerilim Tekniği, Associate Degree, 2020 - 2021, 2019 - 2020, 2012 - 2013, 2011 - 2012, 2010 - 2011

Elektrik Enerjisi Üretim, İletim ve Dağıtım, Associate Degree, 2020 - 2021

HİDROELEKTRİK SANTRALLER, Associate Degree, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

SİSTEM ANALİZİ VE TASARIM, Associate Degree, 2019 - 2020, 2016 - 2017, 2013 - 2014, 2011 - 2012, 2010 - 2011

ENERJİ ÜRETİMİNİN TEMELLERİ, Associate Degree, 2019 - 2020, 2017 - 2018, 2015 - 2016

ELEKTRİK ŞEBEKE TESİSLERİ, Associate Degree, 2019 - 2020, 2016 - 2017

ENERJİ ÜRETİM İLETİM VE DAĞITIMI, Associate Degree, 2019 - 2020, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2010 - 2011

ELEKTRİK BAKIM VE ARIZA BULMA, Associate Degree, 2019 - 2020, 2017 - 2018

ENERJİ TASARRUFU ve ÇEVRE, Associate Degree, 2016 - 2017

HİDROLİK VE PNÖMATİK SİSTEMLER, Associate Degree, 2016 - 2017, 2013 - 2014, 2012 - 2013

ENERJİ EKONOMİSİ, Associate Degree, 2016 - 2017

ELEKTRİK VE ELEKTRONİK ÖLÇMELER, Associate Degree, 2016 - 2017

ELEKTRONİK DEVRE TASARIMI - I, Associate Degree, 2015 - 2016, 2014 - 2015

ELEKTRONİK DEVRE TASARIMI, Associate Degree, 2013 - 2014, 2012 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Artificial Neural Network Models for Solar Radiation Estimation Based on Meteorological Data**
YÜZER E. Ö., BOZKURT A.
Acta Polytechnica Hungarica, vol.22, no.1, pp.43-65, 2025 (SCI-Expanded)
- II. **Instant solar irradiation forecasting for solar power plants using different ANN algorithms and network models**
YÜZER E. Ö., BOZKURT A.
Electrical Engineering, vol.106, no.4, pp.3671-3689, 2024 (SCI-Expanded)
- III. **Comparison of calculation methods and artificial neural network results in regional solar irradiation prediction**
YÜZER E. Ö.
Electrical Engineering, 2024 (SCI-Expanded)
- IV. **Deep learning model for regional solar radiation estimation using satellite images**
YÜZER E. Ö., BOZKURT A.
Ain Shams Engineering Journal, vol.14, no.8, 2023 (SCI-Expanded)
- V. **Designing of a permanent magnet and directly driven synchronous generator for low speed turbines**
Tarimer I., YÜZER E. Ö.
Elektronika ir Elektrotehnika, no.6, pp.15-18, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Lighting Performance and Improvement of Efficiency in a Designated Area of an Active Educational Building**
YÜZER E. Ö.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.3, pp.596-607, 2024 (Peer-Reviewed Journal)
- II. **Comparison of Regional Empirical Models Based on Sunshine Duration for Determining Solar Radiation**
YÜZER E. Ö., BOZKURT A.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.14, no.1, pp.82-92, 2024 (ESCI)
- III. **Comparison of Regional Empirical Models Based on Sunshine Duration for Determining Solar Irradiance**
YÜZER E. Ö., BOZKURT A.
International Journal of Renewable Energy Research, vol.14, no.1, pp.82-92, 2024 (ESCI)
- IV. **Evaluation of Photovoltaic Panel Power Generation Based on Instant Solar Radiation and Meteorological Parameters**
YÜZER E. Ö., BOZKURT A.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.23, no.5, pp.1171-1179, 2023 (Peer-Reviewed Journal)
- V. **FOTOVOLTAİK SİSTEM ÇIKIŞ GÜCÜNÜN YAPAY SİNİR AĞLARI VE MATLAB/SİMULİNK MODELLERİNİN ENTEGRASYONU İLE BELİRLENMESİ**
YÜZER E. Ö., BOZKURT A., BARUTÇU İ. Ç.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.11, no.2, 2023 (Peer-Reviewed Journal)
- VI. **METEOROLOJİK VERİLER KULLANILARAK GÜNEŞ IŞINIM TAHMİNİNDE YAPAY SİNİR AĞLARI PARAMETRELERİNİN DEĞERLENDİRİLMESİ**
YÜZER E. Ö., BOZKURT A.
KSÜ Mühendislik Bilimleri Dergisi, vol.25, no.4, pp.746-759, 2022 (Peer-Reviewed Journal)
- VII. **An Educational Kit to Promote Teaching of Photovoltaic Systems**
ERDUMAN A., YÜZER E. Ö., DURUSU A., YILDIZ F.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.19, pp.916-922, 2020 (Peer-Reviewed Journal)
- VIII. **Hibrit Yenilenebilir Enerji Sistemleri İçin Şarj Regülâtörü Tasarımı**
YÜZER E. Ö., ERDUMAN A., DURUSU A.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.1, pp.47-57, 2018 (Peer-Reviewed Journal)
- IX. **Rüzgar türbinlerinin elektromanyetik sistemlere etkisi**
AKKAYA OY S., ŞAHİN A. D., YÜZER E. Ö.
3e electrotech, 2010 (Peer-Reviewed Journal)

Books

- I. **Hydroelectric Power Plants and Their Environmental Impacts**
YÜZER E. Ö.
in: Engineering Solutions from Photovoltaics to Wearable Technologies, TÜTÜNCÜ BİLAL, Editor, BIDGE Publications, Ankara, pp.165-178, 2024
- II. **TERMİK SANTRALLER VE ENERJİ ÜRETİMİ**
YÜZER E. Ö.
in: ELEKTRİK-ELEKTRONİK VE HABERLEŞME MÜHENDİSLİĞİ ALANINDA ULUSLARARASI ARAŞTIRMALAR-II, GÜNTÜRKÜN RÜŞTÜ, Editor, Eğitim Yayınevi, Ankara, pp.69-80, 2024
- III. **Solar Irradiance Prediction and Methods Used in Prediction Studies**
YÜZER E. Ö., BOZKURT A.

Papers Published in Refereed Scientific Meetings

- I. **Electricity Generation Approaches Using Different Turbine Types in Hydroelectric Power Plants**
YÜZER E. Ö.
3rd International EGE Congress on Scientific Research, İzmir, Turkey, 20 - 22 December 2024, pp.619-626
- II. **Determining the Lighting Levels and Improving Lighting Efficiency in a Sports Hall Facility**
YÜZER E. Ö.
3rd International EGE Congress on Scientific Research, İzmir, Turkey, 20 - 22 December 2024, pp.612-618
- III. **Investigation of Electromagnetic Field Exposure Levels in Open Areas: The Case of Hakkari Province**
YÜZER E. Ö.
5th International Selçuk Scientific Research Congress, Konya, Turkey, 14 - 15 December 2024, pp.485-499
- IV. **Energy Efficiency with Waste Heat Recovery in an Industrial Facility**
GENÇAY M., BOZKURT A., YÜZER E. Ö.
4th International World Energy Conference, Kayseri, Turkey, 6 - 08 December 2024, pp.187-196
- V. **Design and Analysis of a Rooftop PV System in a Large-Scale Social Facility Building**
YÜZER E. Ö.
European Conferences 6th International Conference on Health, Engineering and Applied Sciences, Belgrade, Serbia, 17 - 20 October 2024, pp.421-431
- VI. **"An Overview of Energy Prediction Methods Using Advanced Machine Learning Techniques**
YÜZER E. Ö.
5. Bilsel International World Science and Research Congress, İstanbul, Turkey, 5 - 06 October 2024, pp.399-413
- VII. **Evaluation of the Light Performance and Light Pollution of Outdoor Lighting Elements on the Scale of Hakkari Province**
YÜZER E. Ö.
Munzur International Scientific Research and Innovation Congress, Tunceli, Turkey, 6 - 07 August 2024, pp.1-8
- VIII. **INVESTIGATION OF POWER GENERATION BEHAVIORS OF SOLAR POWER PLANTS UNDER FLUCTUATING IRRADIATION VALUES**
YÜZER E. Ö.
EGE 10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 December 2023, pp.1307-1316
- IX. **The Impact of Tilt Angle Variation on Electrical Power Generation in Photovoltaic Panels**
YÜZER E. Ö.
5. INTERNATIONAL HARRAN CONGRESS ON SCIENTIFIC RESEARCH, Şanlıurfa, Turkey, 8 - 10 December 2023, pp.11-20
- X. **Energy Efficiency and Green Transformation: An Example of An Industrial Facility**
GENÇAY M., BOZKURT A., YÜZER E. Ö.
International World Energy Conference-III, Kayseri, Turkey, 4 - 05 December 2023, pp.256-264
- XI. **REVIEW OF WIND ENERGY CAPACITY IN TURKEY AND ITS COMPARISON WITH SELECTED COUNTRIES**
YÜZER E. Ö.
2. BİLSEL INTERNATIONAL WORLD SCIENCE AND RESEARCH CONGRESS, İstanbul, Turkey, 16 - 17 September 2023, pp.459-469
- XII. **Investigation and Evaluation of the Electromagnetic Field Effects at Hakkâri University Zeynel Bey Campus**
Yüzer E. Ö., Şit S., Harmancı E., Erduman A., Bozkurt A., Soyvural Y., Taş E.
V. International Anatolian Scientific Research Congress, Hakkari, Turkey, 21 - 23 July 2023, pp.1449-1459
- XIII. **Solar Radiation Prediction Using Machine Learning Approach Based on Various Meteorological Variables**

YÜZER E. Ö., BOZKURT A.

V. International Anatolian Scientific Research Congress, Hakkari, Turkey, 21 - 23 July 2023, pp.1460-1467

XIV. A Review of the Development of Solar Energy Capacity in Turkey

YÜZER E. Ö.

1st International Conference on Modern and Advanced Research (ICMAR 2023), Konya, Turkey, 29 - 31 July 2023, vol.1, pp.63-69

XV. INVESTIGATION OF POWER GENERATION BEHAVIOR OF PHOTOVOLTAIC PLANTS UNDER DAILY RADIATION AND TEMPERATURE CONDITIONS

BARUTÇU İ. Ç., YÜZER E. Ö., BOZKURT A.

1. INTERNATIONAL ULUDAĞ SCIENTIFIC RESEARCH CONGRESS, Bursa, Turkey, 15 - 16 July 2023, pp.471-480

XVI. COMPARISON OF MATHEMATICAL CALCULATION AND MEASUREMENT RESULTS FOR SOLAR IRRADIANCE ON INCLINED AND FLAT SURFACES IN PHOTOVOLTAIC SYSTEMS

YÜZER E. Ö., BOZKURT A.

6. INTERNATIONAL PALANDÖKEN SCIENTIFIC STUDIES CONGRESS, Erzurum, Turkey, 24 - 25 June 2023, pp.185-195

XVII. YAPAY SINIR AĞLARI İLE METEOROLOJİK VERİLER KULLANILARAK GÜNEŞ IŞINIM TAHMİNİ: HAKKÂRİ ÖRNEĞİ

YÜZER E. Ö., BOZKURT A., KEKEZOĞLU B.

9. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 14 May 2022

XVIII. Energy Saving And Sustainability by Using Solar Energy in Indoor Lighting: Case Study

ERDUMAN A., DURUSU A., YÜZER E. Ö., AYAZ R.

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 - 21 December 2018

XIX. The Analysis of the Current -Voltage Measurements on Fe3O4/n-Si Heterojunctions in a Wide Temperature Range

DENİZ A. R., ÇALDIRAN Z., YÜZER E. Ö., AYDOĞAN Ş.

International Multidisciplinary Congress of Eurasia (IMCOFE), Barcelona, Spain, 24 - 26 July 2018

XX. Feasibility Analysis of Micro Hydroelectric Power Plants for Hakkari Region

YÜZER E. Ö., ERDUMAN A., DURUSU A.

EUROPEAN CONFERENCE ON SCIENCE, ARTCULTURE (ECSAC'xx18), Antalya, Turkey, 19 - 22 April 2018, pp.11

XXI. Biogas and Electric Power Potential Analysis for Hakkari Region

YÜZER E. Ö., ERDUMAN A., DURUSU A., BİNGÖL E., YOLDAŞ A.

EUROPEAN CONFERENCE ON SCIENCE, ARTCULTURE(ECSAC'xx18), Antalya, Turkey, 19 - 22 April 2018, pp.163

XXII. Hakkâri Bölgesi Akarsularından Elde Edilecek Elektrik Enerjisinin Ülke Ekonomisine Sağlayacağı Katkı İle Bölgenin Yaşam Koşullarının Kolaylaştırılmasının Analizi

YÜZER E. Ö., YOLDAŞ A., TANŞU E.

ECSAC'18_EUROPEAN CONFERENCE ON SCIENCE, ART CULTURE, Antalya, Turkey, 19 - 22 April 2018, pp.57

XXIII. Performance Comparison and Tilt Angle Determination of Different PV Technologies Considering Environmental Conditions of Hakkari-Turkey

ERDUMAN A., DURUSU A., YÜZER E. Ö.

IV. International Multidisciplinary Eurasian Congress, Roma, Italy, 23 - 25 August 2017, pp.575-576

XXIV. Design of A Charge Regulator for Wind/PV/Battery Hybrid System

YÜZER E. Ö., ERDUMAN A., DURUSU A.

International Conference on Multidisciplinary, Education, Science, Engineering and Technology (IMESET 17 Bitlis), Bitlis, Turkey, 27 - 29 October 2017, pp.193

XXV. Propositions on Lightning Protection of a 1 kW Alternator Designed for a Wind Turbine

TARIMER İ., KALENDER O., EGE Y., YÜZER E. Ö.

XXIII. International Conference on Electromagnetic Disturbances, EMD 2015, Bialystok, Poland, 9 - 11 September 2015, pp.165-168

Supported Projects

Yüzer E. Ö., Project Supported by Higher Education Institutions, Investigation of Lighting Performance and Improvement of Efficiency in an Active Educational Building, 2024 - 2025

Yüzer E. Ö., H2020 Project, Researchers' Night for Citizens & Researchers' Meeting for Science and Art Centers, 2024 - 2024

Yüzer E. Ö., Şit S., Harmancı E., Soyvural Y., Bozkurt A., Erduman A., Project Supported by Higher Education Institutions, Hakkari Üniversitesi Akademik, İdari ve Sosyal Binalarındaki Elektromanyetik Alan Etkilerinin İncelenmesi ve Sonuçlarının Değerlendirilmesi, 2023 - 2024

YÜZER E. Ö., Project Supported by Higher Education Institutions, Aydınlatma Sistemlerinde Güneş Enerjisi Kullanılarak Enerji Tasarrufu ve Sürdürülebilirliği, 2018 - 2018

YÜZER E. Ö., Fizibilite Hazırlama, Okuma ve Raporlama Eğitimi, 2017 - 2017

YÜZER E. Ö., Project Supported by Higher Education Institutions, Farklı PV Teknolojilerinin Gerçek Ortam Verileri Kullanılarak Enerji Üretimlerin Karşılaştırılması ve Hakkari Şartlarında En uygun Güç Üretim Açılarının Belirlenmesi, 2017 - 2017

Yüzer E. Ö., Soyvural Y., Yaşar H., Social Support Program Projects, EY HAKKARI ENERJİ ÜRETMEYE VAR MISIN?, 2013 - 2014

Activities in Scientific Journals

Doğu Fen Bilimleri Dergisi, Article Editor, 2023 - Continues

Peer Reviews in Scientific Publications

RENEWABLE AND SUSTAINABLE ENERGY TRANSITION, SCI Journal, December 2024

Energy Science & Engineering, SCI Journal, November 2024

Remote Sensing Applications: Society and Environment, Journal Indexed in ESCI, November 2024

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Other Indexed Journal, November 2024

INTERNATIONAL JOURNAL OF AMBIENT ENERGY, Other Indexed Journal, November 2024

Scientific African, Journal Indexed in ESCI, November 2024

ENGINEERING REPORTS, Journal Indexed in ESCI, October 2024

INTERNATIONAL JOURNAL OF GREEN ENERGY, SCI Journal, April 2024

Hittite Journal of Science and Engineering, National Scientific Refreed Journal, February 2024

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, National Scientific Refreed Journal, December 2023

International Journal of Computational and Experimental Science and Engineering (IJCESEN), National Scientific Refreed Journal, March 2023

Indonesian Journal of Electrical Engineering and Informatics, Other Indexed Journal, January 2023

Metrics

Publication: 42

Citation (Scopus): 24

H-Index (Scopus): 3