Lect. PhD TUĞBERK ÖZMEN

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: NIU-6099-2025
ScopusID: 59385525400
Yoksis Researcher ID: 280874

Education

Doctorate, Manisa Celal Bayar University, Turkey 2021 - 2026
Postgraduate, Manisa Celal Bayar University, Turkey 2019 - 2021
Undergraduate, Istanbul Technical University, Turkey 2010 - 2015

Research Areas

Avesis Research Areas: Electrical and Electronics Engineering
WoS Research Areas: Engineering Electrical & Electronic
Scopus Research Areas: Electrical and Electronic Engineering

Academic Positions

Lecturer PhD, Manisa Celal Bayar University, Manisa Teknik Bilimler Meslek Yüksekokulu, Elektrik Ve Enerji, 2018 - Present

Courses

Undergraduate
Elektrik Elektronik Malzemeler, Undergraduate, 2020-2021
Bilgisayar Destekli Teknik Resim, Undergraduate, 2020-2021
Associate Degree
Aydınlatma Tekniği, Associate Degree, 2024 - 2025
Tesisata Giriş, Associate Degree, 2021-2022
Elektrik Üretim, İletim ve Dağıtım, Associate Degree, 2021-2022
Bilgisayar Destekli Tasarım, Associate Degree, 2020-2021

Articles

I. **Comparative multi-objective optimization of Flux-Switching Generator using GWO, PSO, NSGA-II, and**

MODE
ÖZMEN T., Ergun B. E., Soydas B., ONAT N., Gülbahçe M. O.
Engineering Science and Technology, an International Journal, vol.82, 2026 (SCI-Expanded, Scopus)

II. **Thermal Analysis of Flux Switching Permanent Magnet Generator**
ÖZMEN T., GÜLBAHÇE M. O., ARBAK A., KOCA A.
Turkish journal of electrical power and energy systems (Online), vol.6, no.2, pp.115-122, 2026 (TRDizin)

III. **Frequency-Dependent Design of Coated Rotor Structures for Solid Rotor Induction Motors**
ÖZMEN T., Keles O. K., Ergun B. E., Onur G., Atalay A. K., Lordoğlu A., Kocabaş D. A., Gülbahçe M. O.
IEEE Access, vol.14, pp.100322-100336, 2026 (SCI-Expanded, Scopus)

IV. **Comprehensive Analysis of Rotor Geometric Parameters and Skewing Methods in Flux-Switching Generators**
ÖZMEN T., IŞIKELEKOĞLU T., DURMAZ S. T., ERGUN B. E., GÜLBAHÇE M. O., ONAT N.
Turkish journal of electrical power and energy systems (Online), vol.5, no.3, pp.196-204, 2025 (TRDizin)

V. **Rare-earth Magnet Free Flux-switching Generator for Wind Turbines in Micro-grids: A Review**
Ozmen T., Ergun B. E., Gülbahçe M. O., ONAT N.
CES Transactions on Electrical Machines and Systems, vol.8, no.3, pp.295-309, 2024 (Scopus)

VI. **Early stage diabetes prediction by features selection with metaheuristic methods**
ÖZMEN T., KUZU Ü., Kocyigit Y., SARNEL H.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, no.6, pp.596-606, 2023 (ESCI)

VII. **Akıllı Ulaşım Uygulamaları Özelinde Manisa İli İncelemesi**
ÖZMEN T., ÖZMEN E., TAŞKIN S., Bulut S.
Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi (Online), vol.5, no.1, pp.1-21, 2022 (TRDizin)

VIII. **The Effects of Magnetic Circuit Geometry and Material Properties on Surface Mounted Permanent Magnet Synchronous Generator Performance**
ÖZMEN T., ONAT N.
Balkan Journal of Electrical and Computer Engineering, vol.9, no.2, pp.99-105, 2021 (TRDizin)

IX. **Comparative Performance Analysis of Surface Mounted Permanent Magnet Synchronous Generators**
ÖZMEN T., ONAT N.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.17, no.4, pp.429-436, 2021 (TRDizin)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **The Effects of Rotor Delta and Embrace Parameters on the Performance of Flux-Switching Generator**
IŞIKELEKOĞLU T., ÖZMEN T., ERGUN B. E., ONAT N., GÜLBAHÇE M. O.
2024 15th National Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2024, (Full Text)

II. **The Effects of the Multi-Slice Skewing Applied to the Rotor on the Performance of a Flux Switching Generator**
FURMAZ S. T., IŞIKELEKOĞLU T., ÖZMEN T., ERGUN B. E., ONAT N., GÜLBAHÇE M. O.
2024 15th National Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2024, (Full Text)

III. **Meta-Heuristic Based Design and Optimization of Double Stator-Single Rotor Axial-Flux Induction Generator**
Ergun B. E., Ozmen T., Akyildiz A., Goksun B., Gülbahçe M. O.
2025 IEEE International Electric Machines and Drives Conference, IEMDC 2025, Texas, United States Of America, 18 - 21 May 2025, pp.1323-1327, (Full Text)

IV. **Impact of Distributed and Concentrated Winding Configurations on Flux Switching Generator**
Soydas B., ÖZMEN T., Ergun B. E., ONAT N., Gülbahçe M. O.
2025 16th International Conference on Electrical and Electronics Engineering, ELECO 2025, İstanbul, Turkey, 27 -

29 November 2025, (Full Text)

V. **The Effects of Rotor Delta and Embrace Parameters on the Performance of Flux-Switching Generator Rotor Kutup Eğimi ve Yay-Kutup Adimi Orani Parametrelerinin Aki-Anahtarlamali Generatörün Başarimina Etkileri**
Isikelekoglu T., ÖZMEN T., Ergun B. E., ONAT N., Gülbahçe M. O.
2024 Electrical, Electronics and Biomedical Engineering Conference at 15th National Conference on Electrical and Electronics Engineering, ELECO 2024, Bursa, Turkey, 28 - 30 November 2024, (Full Text)

VI. **The Effects of the Multi-Slice Skewing Applied to the Rotor on the Performance of a Flux Switching Generator Aki Anahtarlamali Generatörde Rotora Uygulanan Çok Katmanli Kaykinin Makina Başarimina Etkileri**
Eken S., Isikelekoglu T., Ozmen T., Ergun B. E., ONAT N., Gülbahçe M. O.
2024 Electrical, Electronics and Biomedical Engineering Conference at 15th National Conference on Electrical and Electronics Engineering, ELECO 2024, Bursa, Turkey, 28 - 30 November 2024, (Full Text)

VII. **Comparison of Different Axial-Flux Induction Generator Topologies in Variable Speed Wind Turbine Applications Değişken Hizli Rüzgâr Türbini Uygulamalari İçin Farkli Eksenel Akili Asenkron Generatör Mimarilerinin Karşilaştirilmasi**
Ergun B. E., ÖZMEN T., Gülbahçe M. O.
2024 Electrical, Electronics and Biomedical Engineering Conference at 15th National Conference on Electrical and Electronics Engineering, ELECO 2024, Bursa, Turkey, 28 - 30 November 2024, (Full Text)

VIII. **Farklı Nüfus Yoğunluklu Yapı Adalarında Çatı Tipi Güneş Enerji Santrali İncelemesi: Manisa Örneği**
ÖZMEN T., ÖZMEN E.
10. YenilenebilirEnerji Kaynakları Sempozyumu ve Sergisi, Antalya, Turkey, 12 - 14 December 2019, (Full Text)

IX. **Solar Cities as a Model in the Utilization of Renewable Energy Sources: The Case of Manisa**
ÖZMEN E., YİRMİBEŞOĞLU F., ÖZMEN T.
4THINTERNATIONALSUSTAINABLEBUILDINGSSYMPOSIUM–ISBS2019, Dallas, United States Of America, 18 - 20 July 2019, pp.405-415, (Full Text)

Funded Projects

ÖZMEN T., ERGUN B. E., GÜLBAHÇE M. O., Project Supported by Higher Education Institutions, BAP Research Project, Nadir Toprak Elementi Mıknatıslarından Arındırılmış Özgün Çekirdek Mimarisinde Akı Anahtarlamalı Generatör Geliştirilmesi, 2026 - Present

ÖZMEN T., GÜLBAHÇE M. O., ONAT N., Project Supported by Higher Education Institutions, Mıknatıstan Arındırılmış Radyal-Eksenel Akı Anahtarlamalı Generatör Tasarımı, 2024 - Present

KOCABAŞ D. A., ONAT N., ARBAK A., GÜLBAHÇE M. O., Mikro-Şebekelerdeki Değişken-Hızlı Rüzgar Türbinleri Için Nadir-Toprak Elementlerinden Arındırılmış Radyal-Eksenel Akı Anahtarlamalı Generatör Tasarımı Ve Çok-Amaçlı Optimizasyonu, 2024 - Present

Metrics

Publication: 18
Citation (WoS): 10
Citation (Scopus): 12
H-Index (WoS): 2
H-Index (Scopus): 1

Non Academic Experience

Company, Eko Yenilenebilir Enerjiler A.Ş., Proje, Proje Mühendisi