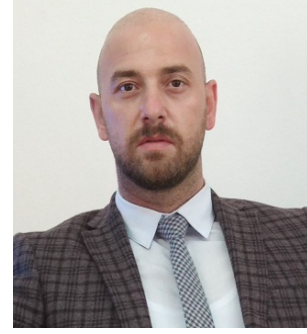


CEMİL OCAK

LECT. PHD

Email : cemilocak@gazi.edu.tr

Office Phone : [+90 312 202 2685](tel:+903122022685)



Learning Knowledge

Under Graduate 2019 - 2021	Duzce University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey
Doctorate 2009 - 2013	Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey
Post Graduate 2007 - 2009	Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Yl) (Tezli), Turkey
Under Graduate 2002 - 2007	Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Elektrikli araçlar için üç kademeli yeni bir fırçasız da motoru tasarımı, analizi ve uygulaması, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2013

Post Graduate, Mikro-hidroelektrik ve rüzgar santralleri için düşük devirli eksenel akılı kalıcı mıknatıslı generator tasarımı ve analizi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Yl) (Tezli), 2009

Academic Titles / Tasks

Lecturer PhD 2012 - Continues	Gazi University, Teknik Bilimler Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
Lecturer 2010 - 2012	Kastamonu University, Tosya Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü

Supported Projects

1. SEFEROĞLU N., Metin R., Keleş E., AYDINER B., OCAK C., SEFEROĞLU Z., Project Supported by Higher Education Institutions, Donör-akseptör sistemine sahip yeni boyar maddelerin sentezi, boya duyarlı güneş hücrelerinde (DSSC) kullanılabilirliğinin belirlenmesi ve fabrikasyonu, 2020 - Continues
2. OCAK C., TUBITAK Project, METRO VE HAFİF RAYLI ULAŞIM ARAÇLARI İÇİN YÜKSEK VERİMLİ SABİT MIKNATISLI SENKRON CER MOTORU GELİŞTİRİLMESİ, 2019 - Continues
3. OCAK C., Project Supported by Other Private Institutions, Metro ve Hafif Raylı Sistemler İçin Yüksek Verimli Cer Motoru Geliştirilmesi, 2017 - 2018
4. OCAK C., TUBITAK Project, Sanayi Tipi Soğutma Grubu Chiller Ünitesi Tasarımı Üretimi ve Testleri, 2016 - 2018
5. OCAK C., TUBITAK Project, Sürekli Miknatıslı Senkron Motor Teknolojilerinin Geliştirilmesi (Tübitak 1511 Çağrısı), 2014 - 2017
6. UZUN G., OCAK C., TURGUT Y., TUBITAK Project, Elektrik Makinalarında Kullanılan Silisli Sac Paketlerin Farklı Kesme Yöntemleri İle Üretilerek Performanslarının Araştırılması, 2015 - 2016
7. OCAK C., TUBITAK Project, İÇ SULARDA KULLANILAN TEKNELER İÇİN ELEKTRİK MOTORU GÖSTERGE VE KUMANDA PANELİ GELİŞTİRME PROJESİ, 2014 - 2016
8. Ocak C., Ltd. P. M. P. A. R. S. , TUBITAK Project, Elektrikli Araçlar İçin Sıvı Soğutmalı ve Yüksek Güç Yoğunluğuna Sahip Teker İçi Fırçasız Doğru Akım Motoru Geliştirilmesi, 2012 - 2015
9. OCAK C., Industrial Thesis Project, Yüksek Verimli Kriyojenik Soğutucu Motoru Geliştirilmesi, 2012 - 2013

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

1. **Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions**
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2. **(1+PD)-PID cascade controller design for performance betterment of load frequency control in diverse electric power systems**
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3. **Transient analysis with coupled field-circuit model and experimental assessment of a PMSG used in small-scale wind turbine for water heating purpose**
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ELECTRICAL ENGINEERING, vol.101, no.4, pp.1163-1175, 2019 (Journal Indexed in SCI)
4. **FEM Based Multi-Criterion Design and Implementation of a PM Synchronous Wind Generator by Fully Coupled Co-Simulation**
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6. **A Case Study of Getting Performance Characteristics of a Salient Pole Synchronous Hydrogenerators**
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7. **Performance Comparison of Internal and External Rotor Structured Wind Generators Mounted from Same Permanent Magnets on Same Geometry**
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3. **Akarsu Tipi Hidroelektrik Santraller ve Bu Santrallerde Kullanılan Türbin-Generatörler**
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4. **A comparative analysis of four-pole brushless DC motors with different slot and winding arrangement based on THD values**
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5. **DOĞRUDAN TAHRİKLİ ASANSÖR SİSTEMLERİNDE KULLANILAN SABİT MIKNATISLI SENKRON MOTORLARDA MIKNATIS GEOMETRİSİNİN MOTOR PERFORMANSI VE MALİYETİ ÜZERİNDEKİ ETKİLERİNİN İNCELENMESİ**
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6. **Bir Elektromanyetik Fırlatıcı Bobininde Mermiye Etkiyen Kuvvetin Çok Katmanlı Sinir Ağı ile Kestirimi**
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7. **DESIGN PARAMETERS OPTIMIZATION OF ASYNCHRONOUSMOTOR BY USING ARTIFICIAL BEE COLONY ALGORITHM ANDINVESTIGATING EFFECTS OF USING DIFFERENT FITNESSFUNCTIONS ON EFFICIENT**
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8. **FEA-Based Design Improvement of Small Scale BLDCMs Considering Magnet Thickness and Pole Embrace**
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9. **A COMPARATIVE STUDY AND INVESTIGATION OF DIFFERENT ROTOR DESIGNS OF INDUCTION MOTOR FOR URBAN USE ELECTRIC VEHICLE**
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12. **Investigation Effects of Narrowing Rotor Pole Embrace to Efficiency and Cogging Torque at PM BLDC Motor**
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14. **Influence Of Pole Arc Offset On The Field And Output Parameters Of Brushless Dc Motors**
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Books & Book Chapters

1. **RÜZGAR TÜRBİNLERİ İÇİN KALICI MIKNATISLI SENKROGENERATÖR PARAMETRELERİNİN SİMBİYOTİK ORGANİZMAARAMA ALGORİTMASI İLE ÇOK AMAÇLI OPTİMİZASYONU**
SÖNMEZ Y., YILMAZ C., Yenpınar B., OCAK C.
in: Mühendislik ve Mimarlık Çalışmaları 2018, Nizamettin Çiftçi, Yusuf Yanar, Editor, Çizgi Kitabevi, pp.48-56, 2018

Refereed Congress / Symposium Publications in Proceedings

1. **Permanent Magnet Wind Generators: Neodymium vs. Ferrite Magnets**
Özdemir M. S. , OCAK C., DALCALI A.
IEEE 2021 3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 11 - 13 July 2021, pp.1-6
2. **Optimization of PMSM Design Parameters Using Update Meta-heuristic Algorithms**
YILMAZ C., Yenpınar B., SÖNMEZ Y., OCAK C.
International Conference on Artificial Intelligence and Applied Mathematics in Engineering, 20 - 22 June 2019, pp.914-934
3. **Influence of Rotor Slot Structure at Starting Torque and Efficiency on Urban Use EV Motor**
GÜNEŞER M. T. , DALCALI A., ÖZTÜRK T., OCAK C.
5th International Conference on Power Generation Systems and Renewable Energy Technologies, 26 - 27 August 2019
4. **TOTAL HARMONIC DISTORTION OF V-SHAPED IPMSM MOTORS BASED ON MAGNET STRUCTURE**
DALCALI A., OCAK C.
8th International Conference on Advanced Technologies (ICAT'xx19, Sarajevo, Bosnia And Herzegovina, 26 - 30 August 2019, pp.66-69
5. **The Total Harmonic Distortion of V-Shaped IPMSM Motors Based on Magnet Structure**
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6. **A Comparison of the THD Values of Four-Pole BLDC Motors with Different Slot and Winding Arrangements**
OCAK C., DALCALI A.
8th International Conference on Advanced Technologies, 26 - 30 August 2019
7. **BANDIRMA BÖLGESİNDEKİ ÇİFTLİK KULLANIMINA UYGUN SABİT MIKNATISLI SENKRON GENERATÖR TASARIMI VE ANALİZİ**
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ULUSLARARASI BANDIRMA VE ÇEVRESİ SEMPOZYUMU (UBS'18), 17 - 19 September 2018, pp.417-426

8. **DESIGN AND PERFORMANCE COMPARISON OF FOUR-POLE BRUSHLESS DC MOTORS WITH DIFFERENT POLE/SLOT COMBINATIONS**
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9. **GÖMÜLÜ MIKNATISLI SENKRON MOTORLARIN GEOMETRİ TABANLI AKI BARIYERİ OPTİMİZASYONU**
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III. Uluslararası Rating Academy Kongresi: Uygulamalı Bilimler, 6 - 07 September 2018
10. **FARKLI MIKNATIS MALZEMELERİNİN YÜZEY MIKNATISLI DOĞRUDAN TAHRİKLİ SABİT MIKNATISLI SENKRON MOTOR PERFORMANSINA ETKİSİ**
DALCALI A., OCAK C.
III. INTERNATIONAL RATING ACADEMY CONGRESS ON APPLIED SCIENCES, Lviv, Ukraine, 6 - 07 September 2018
11. **DESIGN AND PERFORMANCE COMPARISON OF DIFFERENT CONFIGURATION OUTER ROTOR BRUSHLESS DC MOTORS FOR ELECTRIC VEHICLES**
OCAK C.
1st International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017
12. **IMPROVEMENT OF STARTING AND SYNCHRONIZATION PERFORMANCE IN LINE-START PERMANENT MAGNET SYNCHRONOUS MOTORS**
OCAK C.
1st International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017, pp.41
13. **Küçük Güçlü Rüzgâr Türbinleri İçin Dış Rotorlu Kalıcı Miknatıslı Bir Senkron Generatöre Ait Miknatıs Optimizasyonunun Gerçekleştirilmesi**
YENİPİNAR B., YILMAZ C., OCAK C., SÖNMEZ Y.
9. Yenilenebilir Enerji Kaynakları Sempozyumu ve Sergisi, Turkey, 3 - 05 November 2017
14. **FEA-Based Design Improvement of Small Scale BLDCMs Considering Magnet Thickness and Pole Embrace**
OCAK C., DALCALI A., ÇELİK E., Uygun D.
6th PARIS International Conference on "Recent Trends in Engineering and Technology", Paris, France, 25 - 26 April 2017
15. **A Comparative Study and Investigation of Different Rotor Designs of Induction Motor for Urban Use Electric Vehicle**
DALCALI A., OCAK C., GÜNEŞER M. T. , ÖZTÜRK T.
Proceedings of 65th ISERD International Conference, Mekke, Saudi Arabia, 23 - 24 January 2017
16. **Comparative study and investigation of different rotor designs of induction motor for urban use electric vehicle**
DALCALI A., GÜNEŞER M. T. , OCAK C., ÖZTÜRK T.
127th International Conference on Recent Innovations in Engineering and Technology, Mekke, Saudi Arabia, 23 - 24 January 2017
17. **An Induction Motor Design for Urban Use Electric Vehicle**
GÜNEŞER M. T. , Dalcali A., Ozturk T., OCAK C., Cernat M.
17th IEEE International Power Electronics and Motion Control Conference (PEMC), Varna, Bulgaria, 25 - 30 September 2016, pp.261-266
18. **Optimum rotor design of small PM BLDC motor based on high efficiency criteria**
SAYGIN A., OCAK C., DALCALI A., ÇELİK E.
International Conference On Electrical And Electronic Engineering (Ic3e2015), Malekka, Malaysia, 10 - 11 August 2015, vol.10, pp.9128-9132
19. **INFLUENCE OF POLE ARC OFFSET ON THE FIELD AND OUTPUT PARAMETERS OF BRUSHLESS DC MOTORS**
SAYGIN A., OCAK C., DALCALI A., GÜRDAL O., ALANTAR S., TARHAN Y.
FTEE-2013 Proc. of the Intl. Conf. on Future Trends in Electronics and Electrical Engineering, Bangkok, Thailand, 13 - 14 July 2013, pp.16-20

20. **The development of GPRS based speed regulator for DC motor**
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IEEE 4th International Conference on Power Engineering, Energy and Electrical Drives, Istanbul, Turkey, Turkey, 13 - 17 May 2013, vol.1, pp.1082-1086
21. **Performance aspects and verifications of in runner and out runner permanent magnet synchronous generator designs of the same magnet structure for low speed wind systems**
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IEEE 11th International Conference on Environment and Electrical Engineering, Venice, Italy, Italy, 18 - 25 May 2012, vol.1, pp.440-445
22. **CAD based design analysis and experimental verification of an out runner permanent magnet synchronous generator for small scale wind turbines**
UYGUN D., OCAK C., ÇETİNCEVİZ Y., güngör y.
IEEE 11th International Conference on Environment and Electrical Engineering, Venice, Italy, Italy, 18 - 25 May 2012, vol.1, pp.179-183
23. **Investigation of the effect of magnet thickness on output power and torque of PM BLDC machines using parametric approach method**
BAYINDIR R., OCAK C., TOPALOĞLU İ.
IEEE 3th International Conference on Power Engineering, Energy and Electrical Drives, Malaga, Spain, Spain, 11 - 13 May 2011, vol.1, pp.1-4
24. **Investigation of the effect of magnet thickness on motor losses of PM BLDC machines using parametric approach method**
BAYINDIR R., TOPALOĞLU İ., OCAK C.
IEEE 3th International Conference on Power Engineering, Energy and Electrical Drives, Malaga, Spain, Spain, 11 - 13 May 2011, vol.1, pp.1-4

Academic and Administrative Experience

2020 - Continues	Assistant Coordinator	Gazi University, Rektörlük
2012 - 2015	Head of Department	Gazi University, Ostim Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
2010 - 2012	Assistant Director of Vocational School	Kastamonu University, Tosya Meslek Yüksekokulu

Courses

Electrical Energy Transmission and Distribution, Under Graduate, 2020 - 2021
 Electrical Machines-I, Associate Degree, 2020 - 2021
 Electrical Machines, Under Graduate, 2020 - 2021
 Electrical Machines-II, Associate Degree, 2020 - 2021
 Energy Applications Lab. I, Under Graduate, 2020 - 2021
 Electromechanical Energy Conversion , Under Graduate, 2020 - 2021

Citations

Total Citations (WOS):34
 h-index (WOS):4

Research Areas

Electrical and Electronics Engineering, Electrical Machine Theory and Design