

## Res. Asst. HAKKI MOLLAHASANOĞLU

### Personal Information

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**Address:** Recep Tayyip Erdogan Üni. Mühendislik ve Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü Merkez /Riz

### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-4423-2022

ScopusID: 57221904797

Yoksis Researcher ID: 301586

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, Turkey 2020 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, Turkey 2018 - 2020

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 2009 - 2014

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

R&D Management, Üniversite-Sanayi İş Birliklerini Arttırmaya Yönelik Ar-Ge Projesi Hazırlama Eğitimi (TÜBİTAK 2237-B Proje Eğitimi Etkinliklerini Destekleme Programı) , Karadeniz Teknik Üniversitesi, 2022

Occupational Health and Safety, İş Güvenliği Uzmanlığı Belgesi - C Sınıfı, T.C. Çalışma ve Sosyal Güvenlik Bakanlığı İş Sağlığı ve Güvenliği Genel Müdürlüğü, 2016

Vocational Training, Elektrik 1 kV Altı ve 1 kV Üstü Topraklama, TMMOB Elektrik Mühendisleri Odası, 2015

Vocational Training, YG Tesislerinde İşletme Sorumluluğu, TMMOB Elektrik Mühendisleri Odası, 2015

### Dissertations

Postgraduate, Tek Fazlı Şebekeden Bağımsız Transformatörsüz H5 Evirici Uygulaması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, 2020

## Research Areas

Electrical Machine Theory and Design

## Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Magnetic Force Performance of Hybrid Multisurface HTS Maglev System With Auxiliary Onboard PMs**  
Ozturk U. K., Abdioglu M., Mollahasanoğlu H.  
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol.33, no.3, 2023 (SCI-Expanded)
- II. **Investigation of the effect of different power degree NdFeB magnets used in interior permanent magnet brushless direct current motor (IPMBLDC) on motor performance**  
Tören M., Mollahasanoğlu H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.3, pp.1389-1401, 2023 (SCI-Expanded)
- III. **Comparison of Heuristic Approaches in Weight Optimization of Different Power Levels Transformers**  
Tören M., Mollahasanoğlu H.  
IETE JOURNAL OF RESEARCH, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Gri Kurt Optimizasyon Algoritması ile Güç ve Dağıtım türü Transformatörlerin Ağırlık Optimizasyonu**  
TÖREN M., MOLLAHASANOĞLU H.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.12, no.1, pp.96-103, 2023 (Peer-Reviewed Journal)
- II. **Investigation of Electric Motors in Electric and Hybrid Vehicles and Estimation of Changes in CO2 Emissions: A Sample of Turkey**  
Tören M., Mollahasanoğlu H.  
El-Cezeri Journal of Science and Engineering, vol.9, no.3, pp.1082-1097, 2022 (Peer-Reviewed Journal)
- III. **ELEKTRİKLİ ARAÇLARIN BATARYA YÖNETİM SİSTEMİNİN SOĞUTMA SİSTEM TASARIMI VE KONTROLÜ**  
TÖREN M., MOLLAHASANOĞLU H., Kaya S. M.  
Journal of Scientific Reports-B, no.5, pp.11-21, 2022 (Peer-Reviewed Journal)
- IV. **Thermoelectric Cooling System in Transformer Performance as an Alternative Cooling System**  
Tören M., Mollahasanoğlu H.  
European Journal of Science and Technology, vol.32, pp.498-507, 2021 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **INVESTIGATION OF THE EFFECTS OF DIFFERENT TEMPERATURE PERFORMANCE TYPES OF MAGNET ON MOTOR PERFORMANCE PARAMETERS IN PMBLDC GEARLESS MOTOR FROM ELECTRIC VEHICLE TRACTION MOTORS**  
Tören M., Mollahasanoğlu H., Toran S. E.  
in: CURRENT STUDIES IN ELECTRICAL ELECTRONICS AND COMPUTER ENGINEERING, Prof. Dr. Ismail Saritas, Assoc. Prof. Dr. Ilker Ali Ozkan, Editor, Eğitim Yayınevi Tic. Ltd. Şti., İstanbul, pp.119-131, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Effects of Different Temperature Performance Types of Magnet on Motor Performance Parameters in PMSM Gearless Motor from Electric Vehicle Traction Motors**  
TÖREN M., MOLLAHASANOĞLU H., Toran S. E.  
10th International Conference on Advanced Technologies (ICAT'22), Van, Turkey, 25 November 2022, pp.73
- II. **Unmanned Aerial Vehicle Designed for Response to Social Incidents and Performance Investigation**  
TÖREN M., MOLLAHASANOĞLU H., ÇEPNİ M., KINA M.  
10th International Conference on Advanced Technologies (ICAT'22), Van, Turkey, 25 November 2022, pp.272-276
- III. **Cooling System Design and Control of Battery Management System of Electric Vehicles**  
Tören M., Mollahasanoğlu H., Kaya S. M.  
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.1025-1026
- IV. **Determination of Optimum Stator and Rotor Resistance Values for Obtaining Parameters of Three Phase Induction Motor by Taguchi Method**  
TÖREN M., MOLLAHASANOĞLU H.  
13th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 25 November 2021, pp.440-444
- V. **Fırçasız DA Motorlarda (FDAM) Kullanılan Kalıcı Mıknatıs Boyutunun Taguchi Metodu ile Optimizasyonu**  
TÖREN M., MOLLAHASANOĞLU H.  
ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİNDE GÜNCEL GELİŞMELER SEMPOZYUMU, Trabzon, Turkey, 24 September 2021, vol.1, pp.39-44
- VI. **Investigation of Performance Effects of Different Synchronous Generators to be Used in Micro Type Hydro Power Plants**  
Tören M., Mollahasanoğlu H., Koç E.  
I. Elektrik-Elektronik Mühendisliğinde Güncel Gelişmeler Sempozyumu (EEMGG'21), Trabzon, Turkey, 24 - 25 September 2021, vol.1, pp.25-28
- VII. **Investigation of Thermoelectric Cooler System Effect on Induction Motor Performance**  
Tören M., Mollahasanoğlu H.  
2021 17th International Conference on Electrical Machines, Drives and Power systems (ELMA), Sofija, Bulgaria, 1 - 04 July 2021, pp.1-10
- VIII. **Investigation Of The Thermoelectric Coolers Effects On Life Cycle Of Transformers**  
Tören M., Mollahasanoğlu H., Tağlı M.  
12th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2020, pp.221-225
- IX. **Tek Fazlı Şebeke Bağlantılı Transformatörsüz H5 Evirici Denetimi**  
Mollahasanoğlu H., Özkop E.  
II. Uluslararası Bilim ve Akademi Kongresi, Konya, Turkey, 19 - 20 April 2019, vol.2, pp.131-136

## Supported Projects

TÖREN M., MOLLAHASANOĞLU H., KINA M., ÇEPNİ M., Project Supported by Higher Education Institutions, TOPLUMSAL OLAYLARA MÜDAHALEDE İNSANSIZ HAVA ARACI (TOMHA) YAPIMI ve ANALİZLERİ, 2022 - Continues  
Tören M., Mollahasanoğlu H., Yelgel Ö. C., TUBITAK Project, Termoelektrik Soğutucuların Yağlı Tip Dağıtım Transformatörlerinin Faydalı Ömürlerine Etkisinin İncelenmesi, 2021 - 2022

## Memberships / Tasks in Scientific Organizations

## **Metrics**

Publication: 17

Citation (Scopus): 3

H-Index (Scopus): 1

## **Non Academic Experience**

Business Establishment Private, Çoruh Elektrik Dağıtım A.Ş.

Business Establishment Private, İski Yenikapı Atıksu Arıtma Tesisi