

## **Asst. Prof. Haydar BAYAR**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, Marmara University, Fen Bilimleri Endtitüsü, Turkey 2005 - 2014

Postgraduate, Marmara University, Fen Bilimleri Endtitüsü, Turkey 2001 - 2005

Undergraduate, Marmara University, Faculty Of Technical Education, Electric Education, Turkey 1996 - 2000

### **Foreign Languages**

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, Asenkron generatör birim koruma sisteminin gerçekleşmesi , Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi, 2014

Postgraduate, Asenkron motorun yakılarak sökülmesinin motor parametrelerine etkisi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektrik Eğitimi, 2005

### **Research Areas**

Electrical and Electronics Engineering, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2018 - Continues

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2015 - 2018

Research Assistant, Marmara University, Faculty Of Technical Education, Electric Education, 2001 - 2015

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

- Experimental energy and exergy analyses of ship refrigeration system operated by frequency inverter at varying sea water temperatures**

Yılmaz O., Bayar H., Başhan V., Yiğit K.

Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, vol.44, no.4, pp.1-23, 2022 (SCI-Expanded)

- II. **PCA-ANN Based Algorithm for the Determination of Asymmetrical Network Failures of Network-Connected Induction Generators**  
BAYAR H., TERZİ Ü. K., Ozgonenel O.  
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.26, no.4, pp.953-959, 2019 (SCI-Expanded)
- III. **Grid-connected induction generator interturn fault analysis using a PCA-ANN-based algorithm**  
Bayar H., TERZİ Ü. K.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.1340-1350, 2016 (SCI-Expanded)
- IV. **The sustainability indicators of power production systems**  
Onat N., Bayar H.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.14, no.9, pp.3108-3115, 2010 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Peltier'in ısı akış sensörü olarak kullanıldığı ısıl iletkenlik ölçüm metodu**  
Korkmaz A., Bayar H., Palacı Y.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.1, pp.1-6, 2022 (Peer-Reviewed Journal)
- II. **INTEGRATION OF WIND POWER PLANTS TO THE GRID AND REACTIVE POWER SUPPORT**  
Taktır O., BAYAR H., DURSUN E.  
European Journal of Technique, vol.9, no.2, pp.186-196, 2019 (Peer-Reviewed Journal)
- III. **Analysis of Turkey's electric power demand forecast and generation models scenarios for the next ten years**  
Bayar H., Onat N.  
WSEAS Transactions on Power Systems, vol.5, no.3, pp.223-232, 2010 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF WAVE BASIN DESIGN PARAMETERS AND PRODUCTION OF WAVE-MAKER**  
Gölçek K., GÜZEL B., BAYAR H., BAŞAK M. E.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- II. **Wind Energy in the World and Recent Developments in Performance Analysis of Wind Turbines**  
Yılmaz O., Oğuş M. Ü., Bayar H., Ince S. T.  
4th Conference on Advances in Mechanical Engineering Istanbul 2018, İstanbul, Turkey, 19 - 21 December 2018, pp.769-787
- III. **EXPERIMENTAL INVESTIGATION OF SUPERCAVITATING FLOWS**  
GÜZEL B., KORKMAZ F. C., BAYAR H.  
4th International Conference on Engineering and Natural Sciences (ICENS), 2 - 07 May 2018
- IV. **Web Tabanlı Etkileşimli Aydınlatma Laboratuvarı Kurulumu ve Uygulaması**  
POLAT Z., EKREN N., BAYAR H.  
11. Uluslararası Bilgisayar ve Eğitim Teknolojileri Sempozyumu, 24 - 26 May 2017
- V. **GERÇEK ZAMANLI KONTROL EDİLEBİLEN AYDINLATMA LABORATUVARI UYGULAMASI**  
POLAT Z., EKREN N., BAYAR H.  
4. Uluslararası Meslek Yüksekokulları Sempozyumu, 21 - 23 May 2015
- VI. **Turkey's energy policy and investment plans**

Onat N., Bayar H.

4th WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education, EPESE'10, 4th WSEAS International Conference on Renewable Energy Sources, RES '10, Sousse, Tunisia, 3 - 06 May 2010, pp.190-195

## Supported Projects

SAVAŞ Ö., BAYAR H., KARABÜBER A. K., SERT O., KORKMAZ F. C., COŞKUN F., Project Supported by Higher Education Institutions, ÇOKLU PEDALLI DALGA ÜRETECİNİN KAPALI KONTROL SİSTEMİ İLE KONTROL EDİLMESİ VE OPTİMİZASYONU, 2023 - Continues

Kökkülünk G., Bayar H., Elçiçek H., Gonca G., Kaya C., Sönmez H. İ., Okumuş F., Project Supported by Higher Education Institutions, Dizel motorlarda atık lastiklerden elde edilen pirolitik yakıt ile atık kızartma yağı biyodizeli karışımlarının performans ve emisyonlara etkilerinin deneysel olarak incelenmesi, 2021 - 2022

PALACI Y., BAYAR H., GONCA G., DEMİR Ö., AKALIN Ö., Project Supported by Higher Education Institutions, Bor katkısı ile düşük ısı iletkenlik sağlayan izolasyon malzemesi geliştirilmesi, 2020 - 2020

BAŞAK M. E., GÖLÇEK K., ALAN M. E., BAYAR H., GÜZEL B., Project Supported by Higher Education Institutions, Yılan Tipi Dalga Yapıcıya Haiz bir Dalga Tankında Gemi Dövünmesinin Deneysel İncelenmesi, 2017 - 2019

YILMAZ O., BAŞHAN V., YİĞİT K., BAYAR H., Project Supported by Higher Education Institutions, Farklı Deniz Suyu Sıcaklıklarında Çalışan Gemilerin Soğutma Sistemlerinin Değişken Devirli Kompresör ile Çalıştırılmasının Soğutma Performansına Etkilerinin İncelenmesi, 2015 - 2018

## Scientific Refereeing

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, March 2015

## Metrics

Publication: 13

Citation (WoS): 79

Citation (Scopus): 82

H-Index (WoS): 1

H-Index (Scopus): 1