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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 gerçeklenmesi , 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

I. **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**

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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. **Comparative analysis of different LED lamps with reference to EU's ecodesign and energy labeling regulations in Türkiye**

Polat Z., Bayar H., Dursun E.

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.4, pp.1443-1451, 2024 (Peer-Reviewed Journal)

II. **Prediction of polarization curves of PEMFC membrane electrode assembly using artificial intelligence technics**

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III. **LEED certification analysis for an existing building: Credit opportunities and recommendations**

Bayar H., Dursun E., Akpolat A. N., Kondul A. A., Yaşar N.

Turkish Journal of Electromechanics and Energy, vol.8, no.3, pp.97-108, 2023 (Peer-Reviewed Journal)

IV. **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)

V. **INTEGRATION OF WIND POWER PLANTS TO THE GRID AND REACTIVE POWER SUPPORT**

Takır O., BAYAR H., DURSUN E.

European Journal of Technique, vol.9, no.2, pp.186-196, 2019 (Peer-Reviewed Journal)

VI. **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 MECHANICALENGINEERING, İstanbul, Turkey, 17 - 19 December 2019

II. **Wind Energy in the World and Recent Developments in Performance Analysis of Wind Turbines**

Yilmaz 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

Scientific Refereeing

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

Metrics

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