

Prof. Önder Güler

Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1995 - 2001

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1991 - 1995

Under Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1987 - 1991

Foreign Languages

English

Research Areas

Electrical and Electronics Engineering, Energy, Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2015 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2010 - 2015

Assistant Professor, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2003 - 2010

Research Assistant, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1994 - 2003

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

- I. **A CMOPSO based multi-objective optimization of renewable energy planning: Case of Turkey**
Deveci K., Güler Ö.
Renewable Energy, vol.155, pp.578-590, 2020 (Journal Indexed in SCI)
- II. **Economic analysis of grid-connected residential rooftop PV systems in Turkey**
Duman A. C. , Güler Ö.
Renewable Energy, vol.148, pp.697-711, 2020 (Journal Indexed in SCI)
- III. **Road lighting automation scenarios depending on traffic speed and volume**
Buyukkinaci B., Onaygil S., Guler Ö., Yurtseven M. B.
Lighting Research and Technology, vol.51, pp.910-921, 2019 (Journal Indexed in SCI Expanded)
- IV. **Techno-economic analysis of off-grid photovoltaic LED road lighting systems: A case study for northern, central and southern regions of Turkey**
Duman A. C. , Güler Ö.

BUILDING AND ENVIRONMENT, vol.156, pp.89-98, 2019 (Journal Indexed in SCI)

- V. **Techno-economic analysis of off-grid PV LED road lighting systems for Antalya province of Turkey**
Duman A. C. , Güler Ö.
Light and Engineering, vol.27, pp.58-66, 2019 (Journal Indexed in SCI)
- VI. **Alternative Moment Method for wind energy potential and turbine energy output estimation**
AKDAĞ S. A. , GÜLER Ö.
RENEWABLE ENERGY, vol.120, pp.69-77, 2018 (Journal Indexed in SCI Expanded)
- VII. **Determining minimum visibility levels in different road lighting scenarios**
Büyükkınacı B., ONAYGİL S., GÜLER Ö., Yurtseven M. B.
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- VIII. **Techno-economic analysis of off-grid PV/wind/fuel cell hybrid system combinations with a comparison of regularly and seasonally occupied households**
DUMAN A. C. , GÜLER Ö.
SUSTAINABLE CITIES AND SOCIETY, vol.42, pp.107-126, 2018 (Journal Indexed in SCI Expanded)
- IX. **COMPARISON OF ROAD LIGHTING CALCULATIONS WITH MEASUREMENTS USING CONVENTIONAL AND CAMERA LUMINANCE METERS**
BUYUKKINACI B., Onaygil S., Güler Ö., Yurtseven M. B.
LIGHT & ENGINEERING, vol.24, pp.56-63, 2016 (Journal Indexed in SCI)
- X. **A novel energy pattern factor method for wind speed distribution parameter estimation**
Akdag S. A. , Guler O.
ENERGY CONVERSION AND MANAGEMENT, vol.106, pp.1124-1133, 2015 (Journal Indexed in SCI)
- XI. **Power system integration of wind farms and analysis of grid code requirements**
Rona B., Güler Ö.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.49, pp.100-107, 2015 (Journal Indexed in SCI)
- XII. **Experimental evaluation of the impacts of considering inherent response characteristics for lighting technologies in building energy modeling**
Ozenc S., Uzunoglu M., Güler Ö.
ENERGY AND BUILDINGS, vol.77, pp.432-439, 2014 (Journal Indexed in SCI)
- XIII. **Feasibility analysis of medium-sized hotel's electrical energy consumption with hybrid systems**
Guler O., AKDAG S. A. , DINC SOY M. E.
SUSTAINABLE CITIES AND SOCIETY, vol.9, pp.15-22, 2013 (Journal Indexed in SCI)
- XIV. **IMPACT OF WIND SPEED MEASUREMENT RESOLUTION ON ESTIMATED CAPACITY FACTOR AND ELECTRICITY PRODUCTION COST**
Akdag S. A. , Güler Ö.
ENERGY & ENVIRONMENT, vol.24, pp.999-1012, 2013 (Journal Indexed in SSCI)
- XV. **An Experimental Study on Tubular Fluorescent and LED Lamps with Respect to Energy Performance and Visual Comfort**
MANAV B., ERKİN E., GÜLER Ö., Onaygil S.
Light&Engineering (Svetotekhnika), vol.0, 2013 (Journal Indexed in SCI Expanded)
- XVI. **Evaluation of daylight responsive lighting control systems according to the results of a long term experiment**
Yavuz C., Yanikoglu E., Güler Ö.
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- XVII. **Cost analyses of LED luminaires in road lighting**
Onaygil S., Güler Ö., Erkin E.
Light and Engineering, vol.20, pp.39-45, 2012 (Journal Indexed in SCI)
- XVIII. **Effects of wind speed measurement interval on electrical energy generation**
Güler Ö., Akdag S. A. , Firtin E., Barutçu B.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, pp.843-852, 2012 (Journal Indexed in SCI)
- XIX. **An Energy Management Strategy for a Wind Power Plant Based on Energy Storage and Wind Power**

Prediction

Yagcitekin B., Güler Ö., CALI U.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.7, pp.152-161, 2012 (Journal Indexed in SCI)

- XX. **Turkey solar potential and viability of grid connected solar photovoltaic power plant in different regions**
Güler Ö., Eyigun S.
Energy Education Science and Technology Part A: Energy Science and Research, vol.28, pp.879-890, 2012 (Journal Indexed in SCI)
- XXI. **The Impact of Wind Speed Variability on Wind Power Potential and Estimated Generation Cost**
Yeter P., Guler O., AKDAG S. A.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.7, pp.339-347, 2012 (Journal Indexed in SCI)
- XXII. **Effects of wind speed measurement interval on electrical energy generation**
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- XXIV. **Investigation of wind shear coefficients and their effect on electrical energy generation**
Firtin E., Güler Ö., Akdag S. A.
APPLIED ENERGY, vol.88, pp.4097-4105, 2011 (Journal Indexed in SCI)
- XXV. **A Comparison of Wind Turbine Power Curve Models**
Akdag S. A. , Güler Ö.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.33, pp.2257-2263, 2011 (Journal Indexed in SCI)
- XXVI. **Evaluation of wind energy investment interest and electricity generation cost analysis for Turkey**
Akdag S. A. , Güler Ö.
APPLIED ENERGY, vol.87, pp.2574-2580, 2010 (Journal Indexed in SCI)
- XXVII. **Determination of real energy saving potential of daylight responsive systems: A case study from Turkey**
Yavuz C., Yanikoğlu E., Güler Ö.
Light and Engineering, vol.18, pp.99-105, 2010 (Journal Indexed in SCI)
- XXVIII. **Wind Characteristics Analyses and Determination of Appropriate Wind Turbine for Amasra Black Sea Region, Turkey**
Akdag S. A. , Güler Ö.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.7, pp.422-433, 2010 (Journal Indexed in SCI)
- XXIX. **Determination of Real Energy Saving Potential of Daylight Response Systems A Case Study From Turkey**
YAVUZ C., YANIKOĞLU E., Güler Ö.
LIGHT & ENGINEERING, vol.18, pp.99-105, 2010 (Journal Indexed in SCI Expanded)
- XXX. **Wind energy status in electrical energy production of Turkey**
Guler O.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.13, pp.473-478, 2009 (Journal Indexed in SCI)
- XXXI. **A Research on Office Workers Color Preferences Five Color Samples Under Six Lighting Alternatives**
MANAV B., GÜLER Ö., Onaygil S., KÜÇÜKDOĞU M. Ş.
Arkitekt, vol.0, 2009 (Journal Indexed in AHCI)
- XXXII. **Calculation of Wind Energy Potential and Economic Analysis by Using Weibull Distribution-A Case Study from Turkey. Part 1: Determination of Weibull Parameters**
Akdag S. A. , Guler O.

- ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.4, pp.1-8, 2009 (Journal Indexed in SCI)
- XXXIII. **Calculation of Wind Energy Potential and Economic Analysis by Using Weibull Distribution-A Case Study from Turkey. Part 2: Economic Analysis**
Akdağ S. A. , Güler Ö.
- ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.4, pp.9-16, 2009 (Journal Indexed in SCI)
- XXXIV. **Energy saving by compact fluorescent lamps in the residences considering user satisfaction**
Erkin E., Onaygil S., Güler Ö.
Light and Engineering, vol.16, pp.79-83, 2008 (Journal Indexed in SCI)
- XXXV. **Determination of the effects of structural properties on tunnel lighting with examples from Turkey**
Onaygil S., Güler Ö., ERKİN E.
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.18, pp.85-91, 2003 (Journal Indexed in SCI)
- XXXVI. **Determination of the energy saving by daylight responsive lighting control systems with an example from Istanbul**
Onaygil S., Güler Ö.
Building and Environment, vol.38, pp.973-977, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Grid Compliance and Power Quality Comparison of Wind Plants with Different Turbine and Grid Types**
UZUNLAR B., GÜLER Ö., KALENDERLİ Ö.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.8, pp.1288-1296, 2018 (Journal Indexed in ESCI)
- II. **Subjective experience of discomfort glare in a daylight computerized office in Istanbul and its mathematical prediction with the DGIN method**
Nazal A., Güler Ö., Onaygil S.
ARI Bulletin of the Istanbul Technical University, vol.54, pp.96-107, 2005 (Refereed Journals of Other Institutions)
- III. **A New Criterion for Road Lighting: Average Visibility Level Uniformity**
Güler Ö., Onaygil S.
Journal of Light and Visual Environment, vol.27, pp.39-46, 2003 (Refereed Journals of Other Institutions)

Supported Projects

- Güler Ö., Project Supported by Higher Education Institutions, EVSEL ELEKTRİK İHTİYACININ ÇATI ÜSTÜ FOTOVOLTAİK SİSTEMLER İLE KARŞILANMASININ EKONOMİK ANALİZİ, 2015 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, Rüzgar Enerjisi Hesaplama Programlarının Karşılaştırılması, 2014 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, Şebekeden Bağımsız Hibrid Sistemlerin Boyutlandırılmasında Veri Çözünürlüğü Etkisi, 2013 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, Rüzgar Çiftliği Enerji Üretimi Öngörüsüne Rüzgar Ölçüm Aralığının Etkisi, 2012 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, Rüzgar Enerjisi Üretim öngörüsünde Hellman Katsayısının Ve Hava Yoğunluğunun Önemi, 2011 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, TÜRKİYE GÜNEŞ ENERJİSİ DURUMU VE İÇ ANADOLU BÖLGESİNDE FOTOVOLTALİK SANTRAL PROJESİNİN ANALİZİ, 2010 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, OFİSLERDE KULLANILAN GÜNEŞİNGİNE BAĞLI KONTROL SİSTEMLERİNİN ELEKTRİK ENERJİ TASARRUFUNA VE ENERJİ KALİTESİNE OLAN ETKİLERİNİN BELİRLENMESİ, 2009 - 2018
- Güler Ö., Project Supported by Higher Education Institutions, Türkiye'nin Farklı Bölgeleri için Rüzgar Enerjisinin

Ekonomik Analizi, 2008 - 2018

Güler Ö., Project Supported by Higher Education Institutions, Farklı Renk Sıcaklığı ve Aydınlık Düzeyi Değerlerinin Ofislerdeki Duvar Rengi Tercihine Etkileri, 2007 - 2018

Güler Ö., Project Supported by Higher Education Institutions, Yol Aydınlatmasında Görülebilirlik Metoduyla Enerji Tasarrufu, 2005 - 2018

Güler Ö., Project Supported by Higher Education Institutions, Konutlarda Kompakt Floresan Lambalar ile Enerji Tasarrufu, 2004 - 2018

Güler Ö., Project Supported by Higher Education Institutions, Güneş Enerjili Yol Aydınlatma Sistemlerinin Optimizasyonu, 2015 - 2017

Güler Ö., Project Supported by Higher Education Institutions, Yüzer ve Arazi Kurulumu Güneş Enerji Santrallerinin Enerji Üretim Verimlerinin Karşılaştırılması, 2015 - 2017

Güler Ö., Project Supported by Higher Education Institutions, Hibrid Sistem Boyutlandırılmasına Üretim ve Tüketim Tarafındaki Kısa Süreli Değişimlerin Etkilerinin İncelenmesi, 2013 - 2015

Güler Ö., Project Supported by Higher Education Institutions, Rüzgar Enerjisi Potansiyeli Hesaplarında Kullanılan Bilgisayar Hesaplama Programlarının Karşılaştırılması, 2011 - 2015

Citations

Total Citations (WOS):416

h-index (WOS):11