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Kişisel Bilgiler

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Araştırma Alanları

Makina Mühendisliği, Enerji, Konvansiyonel Enerji Sistemleri ve Teknolojileri , Alternatif Enerji Kaynakları, Güneş Enerjisi, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik Fak., Enerji Sistemleri Müh. , 2012 - Devam Ediyor

Akademik İdari Deneyim

Recep Tayyip Erdoğan Üniversitesi, 2012 - 2015

Verdiği Dersler

Yakma teknolojileri, Yüksek Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015

Jüri Üyelikleri

Tez Savunma (Yüksek Lisans), TEZ SAVUNMA , KTÜ, Aralık, 2016

Akademik Kadroya Atama-Yardımcı Doçentlik, Yard. Doç. Jüri üyeliği, RTEÜ, Haziran, 2015

Doçentlik Sınavı, Doçentlik sınav jürisi, rteü, Haziran, 2015

Tez Savunma (Yüksek Lisans), Tez Savunma Jürisi, RTEÜ, Mayıs, 2015

Akademik Personel Sınavı, Akademiik personel sınavında başkanlık, rteü, Mart, 2015

Akademik Kadroya Atama-Yardımcı Doçentlik, Doç. Jüri üyeliği, RTEÜ, Haziran, 2014

Akademik Kadroya Atama-Yardımcı Doçentlik, Yrd Doc.atama Jürisi, RTEÜ, Haziran, 2013

Akademik Kadroya Atama-Yardımcı Doçentlik, Yrd Doc.atama Jürisi, RTEÜ, Mayıs, 2013

Tez Savunma (Doktora), Tez Savunma Jürisi, KTÜ, Mayıs, 2013

Akademik Kadroya Atama-Yardımcı Doçentlik, Yrd Doc.atama Jürisi, RTEÜ, Şubat, 2013

Akademik Kadroya Atama-Yardımcı Doçentlik, Yrd Doc.atama Jürisi, RTEÜ, Nisan, 2012

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Sensitivity analysis of implicit correlations for photovoltaic module temperature: A review**
Coskun C., TOYGAR U., Sarpdag O., Oktay Z.
JOURNAL OF CLEANER PRODUCTION, cilt.164, ss.1474-1485, 2017 (SCI-Expanded)

- II. **A new approach to calculation of energy demand and amount of emission according to different indoor temperature**
Erturk M., Oktay Z., COSKUN C., Kilic G. A., DASDEMIR A.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, cilt.7, sa.3, ss.395-408, 2015 (SCI-Expanded)
- III. **Comparing advanced exergetic assessments of two geothermal district heating systems for residential buildings**
Kecebas A., COSKUN C., Oktay Z., Hepbasli A.
ENERGY AND BUILDINGS, cilt.81, ss.141-151, 2014 (SCI-Expanded)
- IV. **A new approach to determine the outdoor temperature distributions for building energy calculations**
COSKUN C., Erturk M., Oktay Z., Hepbasli A.
ENERGY CONVERSION AND MANAGEMENT, cilt.78, ss.165-172, 2014 (SCI-Expanded)
- V. **Change in heating energy requirements for various interior space temperatures: A case study of Karabuk**
ERTURK M., KILIC G. A., Çay Y., COSKUN C., OKTAY COŞKUN Z.
Energy Education Science and Technology Part A:ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, cilt.31, sa.4, ss.1983-1990, 2013 (SCI-Expanded)
- VI. **Estimation of the Monthly Based Hourly Wind Speed Characteristics and the Generated Power Characteristics for Developing Bidding Strategies in an Actual Wind Farm: A Case Study**
Akyuz E., Demiral D., COSKUN C., Oktay Z.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.38, sa.2, ss.263-275, 2013 (SCI-Expanded)
- VII. **Performance assessment of a novel hybrid district energy system**
COSKUN C., Oktay Z., DINCER I.
APPLIED THERMAL ENGINEERING, cilt.48, ss.268-274, 2012 (SCI-Expanded)
- VIII. **Investigation of biogas and hydrogen production from waste water of milk-processing industry in Turkey**
COSKUN C., Bayraktar M., Oktay Z., DINCER I.
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- IX. **Performance investigation of hydrogen production from a hybrid wind-PV system**
Akyuz E., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.37, sa.21, ss.16623-16630, 2012 (SCI-Expanded)
- X. **Investigation of environmental and exergetic performance for coal-preparation units in cement production processes**
Sogut Z., Oktay Z., Karakoc H., Hepbasli A.
ENERGY, cilt.46, sa.1, ss.72-77, 2012 (SCI-Expanded)
- XI. **Thermodynamic analyses and case studies of geothermal based multi-generation systems**
COSKUN C., Oktay Z., Dinçer I.
JOURNAL OF CLEANER PRODUCTION, cilt.32, ss.71-80, 2012 (SCI-Expanded)
- XII. **A novel approach for estimation of photovoltaic exergy efficiency**
Akyuz E., COSKUN C., Oktay Z., DINCER I.
ENERGY, cilt.44, sa.1, ss.1059-1066, 2012 (SCI-Expanded)
- XIII. **Investigation of a hybrid solar and geothermal driven absorption cooling system for district applications**
COSKUN C., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF EXERGY, cilt.11, sa.2, ss.205-215, 2012 (SCI-Expanded)
- XIV. **A case study of hybrid wind-solar power system for reduction of CO₂ emissions**
Akyuz E., Oktay Z., Dinçer I.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, cilt.4, sa.1, ss.52-67, 2012 (SCI-Expanded)
- XV. **Performance evaluations of a geothermal power plant**
Coskun C., Oktay Z., DINCER I.
APPLIED THERMAL ENGINEERING, cilt.31, ss.4074-4082, 2011 (SCI-Expanded)

- XVI. **Modified exergoeconomic modeling of geothermal power plants**
Coskun C., Oktay Z., DINCER I.
ENERGY, cilt.36, sa.11, ss.6358-6366, 2011 (SCI-Expanded)
- XVII. **Energy analysis of hydrogen production using biogas-based electricity**
Coskun C., Akyuz E., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.36, sa.17, ss.11418-11424, 2011 (SCI-Expanded)
- XVIII. **Hydrogen production probability distributions for a PV-electrolyser system**
Akyuz E., Coskun C., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.36, sa.17, ss.11292-11299, 2011 (SCI-Expanded)
- XIX. **A new approach for predicting cooling degree-hours and energy requirements in buildings**
Oktay Z., Coskun C., DINCER I.
ENERGY, cilt.36, sa.8, ss.4855-4863, 2011 (SCI-Expanded)
- XX. **Estimation of monthly solar radiation distribution for solar energy system analysis**
Coskun C., Oktay Z., DINCER I.
ENERGY, cilt.36, sa.2, ss.1319-1323, 2011 (SCI-Expanded)
- XXI. **Impact assessment of CO₂ emissions caused by exergy losses in the cement sector**
Sogut Z., Oktay Z., Karakoc H.
INTERNATIONAL JOURNAL OF EXERGY, cilt.9, sa.3, ss.280-296, 2011 (SCI-Expanded)
- XXII. **Investigation of some renewable energy and exergy parameters for two Geothermal District Heating Systems**
Coskun C., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF EXERGY, cilt.8, sa.1, ss.1-15, 2011 (SCI-Expanded)
- XXIII. **Energetic and exergetic performance evaluation of the quadruple-effect evaporator unit in tomato paste production**
Sogut Z., Ilten N., Oktay Z.
ENERGY, cilt.35, sa.9, ss.3821-3826, 2010 (SCI-Expanded)
- XXIV. **Mathematical modeling of heat recovery from a rotary kiln**
Sogut Z., Oktay Z., Karakoc H.
APPLIED THERMAL ENGINEERING, cilt.30, ss.817-825, 2010 (SCI-Expanded)
- XXV. **THERMOECONOMIC ANALYSIS OF FARINE MILL IN DRY TYPE CEMENT PRODUCTION**
Sogut Z., Oktay Z., Karakoc H., YORU Y.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.30, sa.1, ss.59-72, 2010 (SCI-Expanded)
- XXVI. **A new approach for simplifying the calculation of flue gas specific heat and specific exergy value depending on fuel composition**
Coskun C., Oktay Z., Ilten N.
ENERGY, cilt.34, sa.11, ss.1898-1902, 2009 (SCI-Expanded)
- XXVII. **Energetic and exergetic assessment of a trass mill process in a cement plant**
Sogut M. Z., Oktay Z., Hepbasli A.
ENERGY CONVERSION AND MANAGEMENT, cilt.50, sa.9, ss.2316-2323, 2009 (SCI-Expanded)
- XXVIII. **New energy and exergy parameters for geothermal district heating systems**
Coskun C., Oktay Z., DINCER I.
APPLIED THERMAL ENGINEERING, cilt.29, ss.2235-2242, 2009 (SCI-Expanded)
- XXIX. **Exergoeconomic analysis of the Gonen geothermal district heating system for buildings**
Oktay Z., DINCER I.
ENERGY AND BUILDINGS, cilt.41, sa.2, ss.154-163, 2009 (SCI-Expanded)
- XXX. **Investigation of coal-fired power plants in Turkey and a case study: Can plant**
Oktay Z.
APPLIED THERMAL ENGINEERING, cilt.29, ss.550-557, 2009 (SCI-Expanded)
- XXXI. **Investigation of effect of varying dead-state temperatures on energy and exergy efficiencies of a Raw Mill process in a cement plant**

- Sogut Z., Oktay Z., Hepbasli A.
INTERNATIONAL JOURNAL OF EXERGY, cilt.6, sa.5, ss.655-670, 2009 (SCI-Expanded)
- XXXII. **The techno-economic and environmental aspects of a hybrid PV-diesel-battery power system for remote farm houses**
Akyuz E., Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, cilt.1, ss.392-404, 2009 (SCI-Expanded)
- XXXIII. **Energetic and exergetic performance investigation of the Bigadic Geothermal District Heating System in Turkey**
Oktay Z., Coskun C., DINCER I.
ENERGY AND BUILDINGS, cilt.40, sa.5, ss.702-709, 2008 (SCI-Expanded)
- XXXIV. **Energetic, exergetic and environmental assessments of the Edremit Geothermal District Heating System**
OKTAY COŞKUN Z., DINCER I.
ASHRAE JOURNAL, cilt.114, sa.1, ss.116-127, 2008 (SCI-Expanded)
- XXXV. **Energy and exergy analyses in a thermal process of a production line for a cement factory and applications**
Sogut Z., Oktay Z.
INTERNATIONAL JOURNAL OF EXERGY, cilt.5, sa.2, ss.218-240, 2008 (SCI-Expanded)
- XXXVI. **Geothermal district heating in Turkey: The Gonen case study**
Oktay Z., ASLAN A.
GEOTHERMICS, cilt.36, sa.2, ss.167-182, 2007 (SCI-Expanded)
- XXXVII. **Energetic, exergetic, economic and environmental assessments of the bigadic geothermal district heating system as a potential green solution**
Oktay Z., DINCER I.
INTERNATIONAL JOURNAL OF GREEN ENERGY, cilt.4, sa.5, ss.549-569, 2007 (SCI-Expanded)
- XXXVIII. **Energy and exergy analyses of a raw mill in a cement production**
UTLU Z., Söğüt Z., HEPBASLI A., Oktay Z.
APPLIED THERMAL ENGINEERING, cilt.26, ss.2479-2489, 2006 (SCI-Expanded)
- XXXIX. **Olive cake as a biomass fuel for energy production**
Oktay Z.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.28, sa.4, ss.329-339, 2006 (SCI-Expanded)
- XL. **Performance evaluation of a heat pump assisted mechanical opener dryer**
Oktay Z., HEPBASLI A.
ENERGY CONVERSION AND MANAGEMENT, cilt.44, sa.8, ss.1193-1207, 2003 (SCI-Expanded)
- XLI. **Utilization of olive cake as a potential energy source in Turkey**
HEPBASLI A., AKDENİZ R., VARDAR-SUKAN F., Oktay Z.
ENERGY SOURCES, cilt.25, sa.5, ss.405-417, 2003 (SCI-Expanded)
- XLII. **Testing of a heat-pump-assisted mechanical opener dryer**
Oktay Z.
APPLIED THERMAL ENGINEERING, cilt.23, sa.2, ss.153-162, 2003 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Energetic, environmental and economic aspects of a hybrid renewable energy system: A case study**
AKYUZ E., OKTAY COŞKUN Z., DINCER I.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.6, ss.44-54, 2011 (Scopus)

Kitap & Kitap Bölümleri

- I. **Energy analysis of hydrogen production from a hybrid wind turbine-electrolyzer system**
Akyüz E., OKTAY COŞKUN Z., Dinçer İ.
Progress in Exergy, Energy, and the Environment, İbrahim Dinçer, Editör, Springer International Publishing, Londra, ss.377-384, 2014
- II. **Prediction of daily average global solar radiation and parabolic monthly irradiation model parameters for Turkey**
OKTAY COŞKUN Z., COSKUN C., ERTURK M.
Progress in Exergy, Energy, and the Environment, İbrahim Dinçer, Editör, Springer International Publishing, Londra, ss.867-874, 2014
- III. **Investigating the exergetic and environmental effects of subcooling and superheating processes on the performance of direct expansion systems**
Söğüt Z., Karakoç H., OKTAY COŞKUN Z., HEPBASLI A.
Progress in Exergy, Energy, and the Environment, İbrahim Dinçer, Editör, Springer International Publishing, Londra, ss.713-722, 2014
- IV. **New parameters for reduction of heating-based greenhouse gas emissions: A case study**
COSKUN C., ERTURK M., OKTAY COŞKUN Z., DINCER I.
Causes, Impacts and Solutions to Global Warming, İbrahim Dinçer, Editör, Springer New Basic Books, New York, New York, ss.1067-1076, 2013
- V. **A new parameter for comparison of flue gas enthalpy values: Flue gas petrol equivalence coefficient**
COSKUN C., OKTAY COŞKUN Z.
Handbook of Sustainable Energy, Lee Cho, Editör, Nova Science Publishers, New York, ss.707-712, 2011

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Isıtma ve Soğutma Yüklerindeki Değişimin Uzun Dönemli Tahmini: Karabük Örneği**
COŞKUN C., ERTÜRK M. A. E., BALCI K., OKTAY COŞKUN Z.
1st International Conference on Energy Systems Engineering, (ICESE'17) 2017, Karabük, Türkiye, 2 - 04 Kasım 2017, ss.60-65
- II. **INVESTIGATION OF POWER PLANT WASTE HEAT UTILIZATION IN BIOGAS BASED ELECTRICITY PRODUCTION PROCESS**
COŞKUN C., OKTAY COŞKUN Z., BALCI K., TOYGAR U., AKTAŞ M.
ISS2017 2nd International Science Symposium "Science Festival", Tbilisi, Gürcistan, 5 - 08 Eylül 2017, ss.5
- III. **SENSITIVITY ANALYSIS OF ELECTRICITY PRODUCTION BASED HOURLY AND DAILY CO2 EMISSION ESTIMATION FOR TURKEY**
Coşkun C., Balci K., Aktaş M., Oktay Coşkun Z., Toygar U.
ISS2017 2nd International Science Symposium "Science Festival", Tbilisi, Gürcistan, 5 - 08 Eylül 2017, ss.4

Bilimsel Dergilerdeki Faaliyetler

Journal of Renewable Energy, Editör, 2014 - Devam Ediyor

Bilimsel Hakemlikler

Advances in Mechanical Engineering, SCI Kapsamındaki Dergi, Mayıs 2016

RENEWABLE ENERGY, SCI Kapsamındaki Dergi, Nisan 2016

ENERGY, SCI Kapsamındaki Dergi, Mart 2016

Journal of Cleaner Production, SCI Kapsamındaki Dergi, Mart 2016
Journal of Cleaner Production, SCI Kapsamındaki Dergi, Şubat 2016
international journal of hydrogen energy, SCI Kapsamındaki Dergi, Şubat 2016
applied energy, SCI Kapsamındaki Dergi, Ocak 2016
Environmental Progress & Sustainable Energy, SCI Kapsamındaki Dergi, Ocak 2016

Metrikler

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Kongre ve Sempozyum Katılımı Faaliyetleri

A NOVEL APPROACH FOR ESTIMATION OF PV MODULE SURFACE TEMPERATURE, Katılımcı, Arnavutluk, 2016
ENERGY AND ECONOMIC ANALYSIS OF A HYDROELECTRIC POWER PLANT: A CASE STUDY, Katılımcı, Arnavutluk, 2016