

# Prof. MEHMET BİLGİLİ

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, Turkey 2003 - 2007

Postgraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, Turkey 2001 - 2003

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, Turkey 1988 - 1992

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Predictions of Wind Speed and Wind Power Potential Using Artificial Neural Networks, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, 2007

Postgraduate, The Wind Energy Potential in Some Locations of Turkey, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, 2003

## Research Areas

Mechanical Engineering, Energy, Renewable Energy Systems, Wind power, Thermodynamics, Heating, Refrigerating and Air Conditioning, Engineering and Technology

## Academic Titles / Tasks

Professor, Cukurova University, Ceyhan Mühendislik Fakültesi, Makine Mühendisliği, 2017 - Continues

Associate Professor, Cukurova University, Ceyhan Mühendislik Fakültesi, Makine Mühendisliği, 2012 - 2017

Assistant Professor, Cukurova University, Ceyhan Mühendislik Fakültesi, Makine Mühendisliği, 2011 - 2012

Lecturer PhD, Cukurova University, Adana Meslek Yüksek Okulu, Elektrik ve Enerji, 2007 - 2011

Lecturer, Cukurova University, Adana Meslek Yüksek Okulu, Elektrik ve Enerji, 2004 - 2007

## Academic and Administrative Experience

Cukurova University, Ceyhan Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2013 - Continues  
Cukurova University, Ceyhan Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2013 - Continues  
Cukurova University, Ceyhan Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2012 - Continues  
Cukurova University, Adana Meslek Yüksek Okulu, Elektrik Ve Enerji Bölümü, 2010 - 2011  
Cukurova University, Adana Meslek Yüksek Okulu, Elektrik Ve Enerji Bölümü, 2010 - 2011

## Courses

Fluid Mechanics, Undergraduate, 2013 - 2014  
Heating, Ventilating and Air Conditioning II, Undergraduate, 2013 - 2014  
Koruyucu Bakım ve Arıza Teşhisi, Associate Degree, 2013 - 2014  
Heat And Mass Balances, Undergraduate, 2013 - 2014  
Merkezi İklimlendirme Sistemleri, Associate Degree, 2013 - 2014  
Statistics And Quality Control, Undergraduate, 2013 - 2014  
Statistics, Undergraduate, 2013 - 2014  
Refrigeration Technology, Undergraduate, 2013 - 2014

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

- I. **Flow data forecasting for the junction flow using artificial neural network**  
Sahin B., CANPOLAT Ç., BİLGİLİ M.  
Flow Measurement and Instrumentation, vol.100, 2024 (SCI-Expanded)
- II. **Time series analysis of sea surface temperature change in the coastal seas of Türkiye**  
BİLGİLİ M., Durhasan T., PINAR E.  
Journal of Atmospheric and Solar-Terrestrial Physics, vol.263, 2024 (SCI-Expanded)
- III. **Comparative Analysis of Global Onshore and Offshore Wind Energy Characteristics and Potentials**  
TÜMSE S., BİLGİLİ M., Yildirim A., Sahin B.  
Sustainability (Switzerland), vol.16, no.15, 2024 (SCI-Expanded)
- IV. **Daily air temperature forecasting using LSTM-CNN and GRU-CNN models**  
ULUOCAK İ., BİLGİLİ M.  
Acta Geophysica, vol.72, no.3, pp.2107-2126, 2024 (SCI-Expanded)
- V. **Comprehensive Overview on the Present State and Evolution of Global Warming, Climate Change, Greenhouse Gasses and Renewable Energy**  
BİLGİLİ M., TÜMSE S., Nar S.  
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- VI. **Analysis of historical and future cooling degree days over Türkiye for facade design and energy efficiency in buildings**  
Bilgili A., ÇELİK K., BİLGİLİ M.  
Journal of Thermal Analysis and Calorimetry, 2024 (SCI-Expanded)
- VII. **Machine learning approaches in predicting the wind power output and turbine rotational speed in a wind farm**  
İLHAN A., TÜMSE S., BİLGİLİ M., Sahin B.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.12084-12110, 2024 (SCI-Expanded)
- VIII. **Deep learning approach for one-hour ahead forecasting of solar radiation in different climate regions**  
Yildirim A., BİLGİLİ M., Kara O.

International Journal of Green Energy, 2024 (SCI-Expanded)

- IX. **Technological and dimensional improvements in onshore commercial large-scale wind turbines in the world and Turkey**  
Bilgili M., Ünal Ş.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.25, no.10, pp.3303-3317, 2023 (SCI-Expanded)
- X. **Gross electricity consumption forecasting using LSTM and SARIMA approaches: A case study of Türkiye**  
Bilgili M., Pinar E.  
ENERGY, vol.284, pp.128575, 2023 (SCI-Expanded)
- XI. **Optimizing the tube geometry to enhance thermohydraulic performance of tube bank heat exchanger**  
Aktas A. E., Kuru M. N., Erdinc M. T., Aydın O., Bilgili M.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.193, pp.108460, 2023 (SCI-Expanded)
- XII. **Time series forecasting on cooling degree-days (CDD) using SARIMA model**  
Bilgili M.  
NATURAL HAZARDS, vol.118, no.3, pp.2569-2592, 2023 (SCI-Expanded)
- XIII. **Comparison and evaluation of machine learning approaches for estimating heat index map in Türkiye**  
Tümse S., Bilgili M., Şekertekin A., Ünal Ş., Şahin B.  
NEURAL COMPUTING AND APPLICATIONS, vol.35, pp.15721-15742, 2023 (SCI-Expanded)
- XIV. **Analysis of heating degree-days (HDD) data using machine learning and conventional time series methods**  
Bilgili M., Canpolat Ç., Pinar E., Şahin B.  
THEORETICAL AND APPLIED CLIMATOLOGY, vol.154, pp.141-160, 2023 (SCI-Expanded)
- XV. **Effects of alternative refrigerants on the ejector dimensions for single and dual ejectors enhanced bus air conditioning system**  
Ünal Ş., Erdinç M. T., Akgün H., Bilgili M.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.143, pp.106685, 2023 (SCI-Expanded)
- XVI. **One-hour-ahead solar radiation forecasting by MLP, LSTM, and ANFIS approaches**  
Yıldırım A., Bilgili M., Özbek A.  
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.135, no.1, pp.1-17, 2023 (SCI-Expanded)
- XVII. **Potential visibility, growth, and technological innovation in offshore wind turbines installed in Europe**  
BİLGİLİ M., ALPHAN H., İLHAN A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.10, pp.27208-27226, 2023 (SCI-Expanded)
- XVIII. **Artificial neural network approach for monthly air temperature estimations and maps**  
Bilgili M., Ozbek A., Yildirim A., Simsek E.  
JOURNAL OF ATMOSPHERIC AND SOLAR - TERRESTRIAL PHYSICS, vol.242, pp.1, 2023 (SCI-Expanded)
- XIX. **Machine Learning Approaches for One-Day Ahead Soil Temperature Forecasting**  
Bilgili M., Ünal Ş., Şekertekin A., Gürlek C.  
TARIM BİLİMLERİ DERGİSİ, vol.29, no.1, pp.221-238, 2023 (SCI-Expanded)
- XX. **Techno-economic analysis of an offshore wind farm on the eastern Mediterranean Sea coast**  
Yildirim A., Bilgili M., Akgün H., Ünal Ş.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.12, pp.35281-35293, 2023 (SCI-Expanded)
- XXI. **Deep learning approach for one-hour ahead forecasting of energy production in a solar-PV plant**  
ÖZBEK A., Yildirim A., BİLGİLİ M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.4, pp.10465-10480, 2022 (SCI-Expanded)
- XXII. **One-hour ahead wind speed forecasting using deep learning approach**  
ÖZBEK A., İLHAN A., BİLGİLİ M., Şahin B.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.36, no.12, pp.4311-4335, 2022 (SCI-Expanded)

- XXIII. **Daily average relative humidity forecasting with LSTM neural network and ANFIS approaches**  
ÖZBEK A., ÜNAL Ş., BİLGİLİ M.  
THEORETICAL AND APPLIED CLIMATOLOGY, vol.150, no.1-2, pp.697-714, 2022 (SCI-Expanded)
- XXIV. **Time-series prediction of hourly atmospheric pressure using ANFIS and LSTM approaches**  
BİLGİLİ M., İLHAN A., ÜNAL Ş.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.18, pp.15633-15648, 2022 (SCI-Expanded)
- XXV. **Global growth in offshore wind turbine technology**  
Bilgili M., Alphan H.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.24, no.7, pp.2215-2227, 2022 (SCI-Expanded)
- XXVI. **Influence of mixing section inlet and diffuser outlet velocities on the performance of ejector-expansion refrigeration system using zeotropic mixture**  
ÜNAL Ş., CİHAN E., Erdinc M. T., BİLGİLİ M.  
THERMAL SCIENCE AND ENGINEERING PROGRESS, vol.33, 2022 (SCI-Expanded)
- XXVII. **One-day ahead forecasting of energy production from run-of-river hydroelectric power plants with a deep learning approach**  
BİLGİLİ M., KEİYİNCİ S., Ekinci F.  
SCIENTIA IRANICA, vol.29, no.4, pp.1838-1852, 2022 (SCI-Expanded)
- XXVIII. **Estimation of aerodynamic coefficients of a non-slender delta wing under ground effect using artificial intelligence techniques**  
TÜMSE S., BİLGİLİ M., ŞAHİN B.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.13, pp.10823-10844, 2022 (SCI-Expanded)
- XXIX. **Estimation of wind turbine output power using soft computing models**  
TÜMSE S., İLHAN A., BİLGİLİ M., Sahin B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.2, pp.3757-3786, 2022 (SCI-Expanded)
- XXX. **Particle Image Velocimetry Investigation of the Flow for the Curved Type Wind Turbine Shroud**  
İLHAN A., TÜMSE S., TAŞCI M., BİLGİLİ M., ŞAHİN B.  
JOURNAL OF APPLIED FLUID MECHANICS, vol.15, no.2, pp.373-385, 2022 (SCI-Expanded)
- XXXI. **Application of long short-term memory (LSTM) neural network based on deep learning for electricity energy consumption forecasting**  
BİLGİLİ M., ARSLAN N., ŞEKERTEKİN A., YAŞAR A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.1, pp.140-157, 2022 (SCI-Expanded)
- XXXII. **A review: diffuser augmented wind turbine technologies**  
İLHAN A., ŞAHİN B., BİLGİLİ M.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.19, no.1, pp.1-27, 2022 (SCI-Expanded)
- XXXIII. **An optimization study on thermo-hydraulic performance arrays of circular and diamond shaped cross-sections in periodic flow**  
Erdinç M. T., Aktaş A. E., Kuru M. N., Bilgili M., Aydın O.  
International Communications In Heat And Mass Transfer, vol.129, pp.1-16, 2021 (SCI-Expanded)
- XXXIV. **Effect of Growth in Turbine Size on Rotor Aerodynamic Performance of Modern Commercial Large-Scale Wind Turbines**  
BİLGİLİ M., TÜMSE S., Tontu M., ŞAHİN B.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.8, pp.7185-7195, 2021 (SCI-Expanded)
- XXXV. **Short-term air temperature prediction by adaptive neuro-fuzzy inference system (ANFIS) and long short-term memory (LSTM) network**  
Şekertekin A., Bilgili M., Arslan N., Yildirim A., Çelebi K., Özbek A.  
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.133, pp.943-959, 2021 (SCI-Expanded)
- XXXVI. **Long short-term memory (LSTM) neural network and adaptive neuro-fuzzy inference system (ANFIS) approach in modeling renewable electricity generation forecasting**  
BİLGİLİ M., Yildirim A., ÖZBEK A., ÇELEBİ K., Ekinci F.

- INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.18, no.6, pp.578-594, 2021 (SCI-Expanded)
- XXXVII. **Prediction of 10-min, hourly, and daily atmospheric air temperature: comparison of LSTM, ANFIS-FCM, and ARMA**  
Ozbek A., Sekertekin A., Bilgili M., Arslan N.  
Arabian Journal Of Geosciences, vol.14, no.7, pp.1-16, 2021 (SCI-Expanded)
- XXXVIII. **Aerodynamic Rotor Performance of a 3300-kW Modern Commercial Large-Scale Wind Turbine Installed in a Wind Farm**  
BİLGİLİ M., Tontu M., ŞAHİN B.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.143, no.3, 2021 (SCI-Expanded)
- XXXIX. **A comparison of the performance characteristics of large 2 MW and 3 MW wind turbines on existing onshore wind farms**  
BİLGİLİ M., Ekinçi F., Demirdelen T.  
WIND AND STRUCTURES, vol.32, no.2, pp.81-87, 2021 (SCI-Expanded)
- XL. **Thermo-economic analysis of chlor-alkali electrolysis for hydrogen production in the electrochlorination plant: Real case**  
Tontu M., BİLGİLİ M., ŞAHİN B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.12, pp.8391-8400, 2021 (SCI-Expanded)
- XLI. **Flow analyses of diffuser augmented wind turbines**  
İLHAN A., ZONTUL H., TÜRME S., BİLGİLİ M., ŞAHİN B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)
- XLII. **Modeling Diurnal Land Surface Temperature on a Local Scale of an Arid Environment Using Artificial Neural Network (ANN) and Time Series of Landsat-8 Derived Spectral Indexes**  
Şekertekin A., Arslan N., Bilgili M.  
Journal of Atmospheric and Solar-Terrestrial Physics, vol.206, 2020 (SCI-Expanded)
- XLIII. **An exergoeconomic-environmental analysis of an organic Rankine cycle system integrated with a 660 MW steam power plant in terms of waste heat power generation**  
Tontu M., ŞAHİN B., BİLGİLİ M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (SCI-Expanded)
- XLIV. **Using energy and exergy analysis to compare different coal-fired power plants**  
TONTU M., ŞAHİN B., BİLGİLİ M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI-Expanded)
- XLV. **Analysis and performance assessment of coal-fired based integrated energy system for multigeneration**  
TONTU M., ŞAHİN B., BİLGİLİ M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI-Expanded)
- XLVI. **Exergoeconomic Analysis of Steam Turbine Driving Vapor Compression Refrigeration System in an Existing Coal-Fired Power Plant**  
TONTU M., ŞAHİN B., BİLGİLİ M.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, no.9, pp.7553-7566, 2019 (SCI-Expanded)
- XLVII. **A novel hybrid metaheuristic optimization method to estimate medium-term output power for horizontal axis wind turbine**  
EKINCI F., Demirdelen T., AKSU I. O., AYGÜL K., ESENBGA B., BİLGİLİ M.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.233, no.5, pp.646-658, 2019 (SCI-Expanded)
- XLVIII. **An evaluation of multi-effect desalination with a thermal vapour compression system in terms of thermo-economics**  
Tontu M., Şahin B., Bilgili M.  
INTERNATIONAL JOURNAL OF EXERGY, vol.30, pp.126-138, 2019 (SCI-Expanded)
- XLIX. **The role of hydropower installations for sustainable energy development in Turkey and the world**  
BİLGİLİ M., BILIRGEN H., ÖZBEK A., EKINCI F., Demirdelen T.

RENEWABLE ENERGY, vol.126, pp.755-764, 2018 (SCI-Expanded)

- L. **Analysis of aerodynamic characteristics of 2 MW horizontal axis large wind turbine**  
İLHAN A., BİLGİLİ M., ŞAHİN B.  
WIND AND STRUCTURES, vol.27, no.3, pp.187-197, 2018 (SCI-Expanded)
- LI. **Multi-layer perceptron hybrid model integrated with the firefly optimizer algorithm for windspeed prediction of target site using a limited set of neighboring reference station data**  
Deo R. C., GHORBANI M. A., SAMADIANFARD S., Maraseni T., BİLGİLİ M., BIAZAR M.  
RENEWABLE ENERGY, vol.116, pp.309-323, 2018 (SCI-Expanded)
- LII. **Performance analysis of an industrial steam power plant with varying loads**  
TONTU M., BİLGİLİ M., ŞAHİN B.  
INTERNATIONAL JOURNAL OF EXERGY, vol.27, no.2, pp.231-250, 2018 (SCI-Expanded)
- LIII. **Thermodynamic analysis of the human body in different climate regions of Turkey to determine the comfort conditions with exergy method**  
EKINCI F., BİLGİLİ M.  
INTERNATIONAL JOURNAL OF EXERGY, vol.26, no.4, pp.435-453, 2018 (SCI-Expanded)
- LIV. **Performance evaluation of a horizontal axis wind turbine in operation**  
BİLGİLİ M., YAŞAR A.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.14, no.12, pp.1048-1056, 2017 (SCI-Expanded)
- LV. **Comparison of linear regression and artificial neural network model of a diesel engine fueled with biodiesel-alcohol mixtures**  
TOSUN E., AYDIN K., BİLGİLİ M.  
ALEXANDRIA ENGINEERING JOURNAL, vol.55, no.4, pp.3081-3089, 2016 (SCI-Expanded)
- LVI. **Investigation of wind power density at different heights in the Gelibolu peninsula of Turkey**  
BİLGİLİ M., Hassanzadeh R., ŞAHİN B., ÖZBEK A., YAŞAR A., ŞİMŞEK E.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.4, pp.512-518, 2016 (SCI-Expanded)
- LVII. **Exergy analysis of an inter-city bus air-conditioning system**  
TOSUN E., BİLGİLİ M., TUCCAR G., YAŞAR A. N., AYDIN K.  
INTERNATIONAL JOURNAL OF EXERGY, vol.20, no.4, pp.445-464, 2016 (SCI-Expanded)
- LVIII. **Effect of atmospheric temperature on exergy efficiency and destruction of a typical residential split air conditioning system**  
BİLGİLİ M., ÖZBEK A., YAŞAR A. N., ŞİMŞEK E., ŞAHİN B.  
INTERNATIONAL JOURNAL OF EXERGY, vol.20, no.1, pp.66-84, 2016 (SCI-Expanded)
- LIX. **Estimation of human heat loss in five Mediterranean regions**  
Bilgili M., ŞİMŞEK E., ŞAHİN B., Yasar A., Ozbek A.  
PHYSIOLOGY & BEHAVIOR, vol.149, pp.61-68, 2015 (SCI-Expanded)
- LX. **An overview of renewable electric power capacity and progress in new technologies in the world**  
BİLGİLİ M., ÖZBEK A., ŞAHİN B., Kahraman A.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.49, pp.323-334, 2015 (SCI-Expanded)
- LXI. **Efficiency Analysis of an Installed Wind Farm**  
İLHAN A., BİLGİLİ M., ŞAHİN B.  
Çukurova Üniversitesi Eğitim Fakültesi Dergisi, vol.30, no.1, pp.133-140, 2015 (SCI-Expanded)
- LXII. **Relative importance of parameters affecting wind speed prediction using artificial neural networks**  
Ghorbani M. A., Khatibi R., Hosseini B., BİLGİLİ M.  
THEORETICAL AND APPLIED CLIMATOLOGY, vol.114, pp.107-114, 2013 (SCI-Expanded)
- LXIII. **Wind Speed Prediction of Target Station from Reference Stations Data**  
BİLGİLİ M., ŞAHİN B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, no.5, pp.455-466, 2013 (SCI-Expanded)
- LXIV. **Estimating soil temperature using neighboring station data via multi-nonlinear regression and artificial neural network models**

- BİLGİLİ M., ŞAHİN B., SANGÜN L.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.185, no.1, pp.347-358, 2013 (SCI-Expanded)
- LXV. **Water Demand Forecasting Based on Stepwise Multiple Nonlinear Regression Analysis**  
YAŞAR A., BİLGİLİ M., ŞİMŞEK E.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.37, no.8, pp.2333-2341, 2012 (SCI-Expanded)
- LXVI. **Performance evaluation of a split air conditioning system with artificial neural network approach**  
BİLGİLİ M., ŞİMŞEK E., ÇOŞGUN A., YAŞAR A.  
Energy Education Science and Technology Part A: Energy Science and Research, vol.30, pp.83-94, 2012 (SCI-Expanded)
- LXVII. **Hourly performance prediction of ammonia-water solar absorption refrigeration**  
Ozgoren M., BİLGİLİ M., Babayigit O.  
APPLIED THERMAL ENGINEERING, vol.40, pp.80-90, 2012 (SCI-Expanded)
- LXVIII. **INFLUENCES OF THE PLUGGING IN CONDENSER COILS AND EVAPORATOR FILTERS ON THE PERFORMANCE OF WALL TYPE SPLIT AIR CONDITIONING SYSTEM**  
ŞİMŞEK E., BİLGİLİ M., YAŞAR A., ŞAHİN B.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.2, pp.375-383, 2012 (SCI-Expanded)
- LXIX. **Regional Assessment of Monthly Soil Temperatures in the Aegean Region of Turkey**  
Bilgili M.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.37, no.3, pp.765-775, 2012 (SCI-Expanded)
- LXX. **Estimation of global solar radiation using ANN over Turkey**  
Ozgoren M., BİLGİLİ M., ŞAHİN B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.5, pp.5043-5051, 2012 (SCI-Expanded)
- LXXI. **Electric energy demands of Turkey in residential and industrial sectors**  
BİLGİLİ M., ŞAHİN B., YAŞAR A., ŞİMŞEK E.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.16, no.1, pp.404-414, 2012 (SCI-Expanded)
- LXXII. **Wind Energy Potential and Turbine Installations in Turkey**  
BİLGİLİ M., Simsek E.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.7, no.2, pp.140-151, 2012 (SCI-Expanded)
- LXXIII. **Estimation of relative humidity based on artificial neural network approach in the Aegean Region of Turkey**  
YAŞAR A., ŞİMŞEK E., BİLGİLİ M., YÜCEL A., İLHAN İ.  
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.115, pp.81-87, 2012 (SCI-Expanded)
- LXXIV. **Hourly simulation and performance of solar electric-vapor compression refrigeration system**  
Bilgili M.  
SOLAR ENERGY, vol.85, no.11, pp.2720-2731, 2011 (SCI-Expanded)
- LXXV. **Experimental implementation of a split-type air conditioner for fault detection and diagnosis**  
BİLGİLİ M., TEKE A., YAŞAR A., ŞİMŞEK E.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.1, pp.401-410, 2011 (SCI-Expanded)
- LXXVI. **Daily total global solar radiation modeling from several meteorological data**  
BİLGİLİ M., Ozgoren M.  
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.112, pp.125-138, 2011 (SCI-Expanded)
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Publication: 219

Citation (WoS): 1577

Citation (Scopus): 1819

H-Index (WoS): 21

H-Index (Scopus): 21

## Non Academic Experience

Other Public Institution, İçişleri Bakanlığı, Bölge Kademe Şube Müdürlüğü  
İçişleri Bakanlığı, Adana Emniyet Müdürlüğü