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Publons / Web Of Science ResearcherID: A-4927-2014

ScopusID: 6602089703

Yoksis Araştırmacı ID: 12876

### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 1982 - 1989

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2001 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1990 - 2001

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1993

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1990 - 1991

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1979 - 1990

### Verdiği Dersler

SOLAR ENERGY I, Lisans, 2018 - 2019, 2017 - 2018

GENERAL PHYSICS II (ELECTRICITY AND MAGNETISM), Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 1999 - 2000, 1994 - 1995

PHYSICS OF SOLAR ENERGY, Yüksek Lisans, 2018 - 2019, 2017 - 2018

GENERAL PHYSICS I, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 -

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SOLAR ENERGY 2, Lisans, 2017 - 2018, 1994 - 1995, 1993 - 1994, 1992 - 1993  
ELEKTROMAGNETİC THEORY I, Yüksek Lisans, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 -  
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MODERN PHYSICS, Lisans, 1997 - 1998  
KATIHAL FİZİĞİ, Yüksek Lisans, 1996 - 1997  
QUANTUM PHYSICS, Lisans, 1994 - 1995, 1993 - 1994, 1992 - 1993

## Yönetilen Tezler

Aknoğlu B. G., Monitoring and analyzing the sustainability performance of a renewable energy investment with a case study-tugra hepp, Yüksek Lisans, İ.KALEMCI(Öğrenci), 2023  
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Kilkiş Ş., Aknoğlu B. G., A Sustainable Approach to Solar Technologies: Recycling Solar Panels In Turkey, Yüksek Lisans, A.Aşkın(Öğrenci), 2022  
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AKINOĞLU B. G., Evaluating maritime intelligent transportation systems: The case of using electric ferries and renewable energy in Türkiye, Doktora, C.PENSE(Öğrenci), 2022  
AKINOĞLU B. G., Calculation of the macroeconomic carbon rebound effect of the European Union emission trading system, Doktora, C.KAAN(Öğrenci), 2022  
AKINOĞLU B. G., Modeling and simulation of a combined system of multiple rooftop PV systems and a central energy storage system for METU Ankara Campus, Yüksek Lisans, N.IRMAK(Öğrenci), 2022  
AKINOĞLU B. G., Long term performance and degradation rates of PV modules in Central Anatolia, Yüksek Lisans, Z.CANTÜRK(Öğrenci), 2021  
AKINOĞLU B. G., Natural gas infrastructure expansions in Turkey: Economic feasibility and a cost comparison with PV investments, Yüksek Lisans, B.MANSIZ(Öğrenci), 2021  
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AKINOĞLU B. G., Development of the algorithm of solar TURnKEY: Solar electricity software for Turkey, Doktora, A.BUĞRAHAN(Öğrenci), 2018  
ÖZDEMİR Ö., AKINOĞLU B. G., Investigating preferences of households for residential photovoltaic systems: A survey study in Ankara, Turkey, Yüksek Lisans, E.ASLIHAK(Öğrenci), 2016  
AKINOĞLU B. G., SOYTAŞ U., Decarbonization of turkish public electricity sector: Adopting sustainable energy portfolio, Yüksek Lisans, H.ŞAHİN(Öğrenci), 2014  
AKINOĞLU B. G., SOYTAŞ U., Nuclear energy versus solar energy (Nuke vs. PV): The comparison of their economic feasibilities and environmental aspects for Turkey, Yüksek Lisans, A.BUĞRAHAN(Öğrenci), 2014  
AKINOĞLU B. G., Linking satellite imagery to bright sunshine hours for the estimation of global solar irradiation, Doktora, S.ENER(Öğrenci), 2013  
AKINOĞLU B. G., YILMAZ İ. Ö., Analysis of sunshine duration between 1970 and 2010 for Turkey, Yüksek Lisans, U.YILDIRIM(Öğrenci), 2013

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Development of Low-Cost c-Si-Based CPV Cells for a Solar Co-Generation Absorber in a Parabolic Trough Collector**  
Aydin E., Buchroithner A., Felsberger R., Preßmair R., Azgın A., TURAN R., Keçeci A. E., BEKTAŞ G., AKINOĞLU B. G.  
Energies, cilt.17, sa.12, 2024 (SCI-Expanded)
- II. **Is there a macroeconomic carbon rebound effect in EU ETS?**  
Bolat C. K., Soytaş U., AKINOĞLU B. G., Nazlıoğlu S.  
Energy Economics, cilt.125, 2023 (SSCI)
- III. **Recycling photovoltaic modules within a circular economy approach and a snapshot for Türkiye**  
Aşkın A., KILKIŞ Ş., AKINOĞLU B. G.  
Renewable Energy, cilt.208, ss.583-596, 2023 (SCI-Expanded)
- IV. **A sound potential against energy dependency and climate change challenges: Floating photovoltaics on water reservoirs of Turkey**  
Kulat M. I., TOSUN K., Karaveli A. B., YÜCEL İ., AKINOĞLU B. G.  
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- V. **Technical potential of rooftop solar photovoltaic for Ankara**  
Kutlu E. C., Durusoy B., Özden T., AKINOĞLU B. G.  
Renewable Energy, cilt.185, ss.779-789, 2022 (SCI-Expanded)
- VI. **ANALYSIS AND ASSESSMENT OF DAILY AND SEASONAL PHOTOVOLTAIC HEAT ISLAND EFFECT ON SEKBANDEMIRLI RURAL REGION BY LOCAL WEATHER DATA RECORDS**  
DEMİREZEN E., ÖZDEN T., AKINOĞLU B. G.  
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- VII. **Beyond 3rd generation solar cells and the full spectrum project. Recent advances and new emerging solar cells**  
AKINOĞLU B. G., Tuncel B., Badescu V.  
Sustainable Energy Technologies and Assessments, cilt.46, 2021 (SCI-Expanded)
- VIII. **Solar irradiation on the rear surface of bifacial solar modules: a modeling approach**  
Durusoy B., ÖZDEN T., AKINOĞLU B. G.  
SCIENTIFIC REPORTS, cilt.10, sa.1, 2020 (SCI-Expanded)
- IX. **One-year performance evaluation of two newly developed back-contact solar modules in two different climates**  
ÖZDEN T., Carr A. J., Geerligs B. ( J. ), TURAN R., AKINOĞLU B. G.  
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- X. **Comparisons and critical assessment of global and diffuse solar irradiation estimation methodologies**  
Karaveli A. B., AKINOĞLU B. G.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, cilt.15, sa.5, ss.325-332, 2018 (SCI-Expanded)
- XI. **Development of new monthly global and diffuse solar irradiation estimation methodologies and comparisons**  
Karaveli A. B., AKINOĞLU B. G.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, cilt.15, sa.5, ss.333-346, 2018 (SCI-Expanded)

- XII. **Long term outdoor performances of three different on-grid PV arrays in central Anatolia - An extended analysis**  
ÖZDEN T., AKINOĞLU B. G., TURAN R.  
RENEWABLE ENERGY, cilt.101, ss.182-195, 2017 (SCI-Expanded)
- XIII. **Comparison of large scale solar PV (photovoltaic) and nuclear power plant investments in an emerging market**  
Karaveli A. B., SOYTAŞ U., AKINOĞLU B. G.  
ENERGY, cilt.84, ss.656-665, 2015 (SCI-Expanded)
- XIV. **Estimation of daily global solar irradiation by coupling ground measurements of bright sunshine hours to satellite imagery**  
Rusen S. E., Hammer A., AKINOĞLU B. G.  
ENERGY, cilt.58, ss.417-425, 2013 (SCI-Expanded)
- XV. **Combining the satellite imagery with bright sunshine hours: A review**  
AKINOĞLU B. G., Rusen S. E.  
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, cilt.5, sa.4, 2013 (SCI-Expanded)
- XVI. **Influence of ion implantation on structural and photoconductive properties of Bridgman grown GaSe single crystals**  
KARABULUT O., Parlak M., Turan R., SERİNCAN U., Akinoglu B. G.  
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- XVII. **Optical anisotropy in GaSe**  
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- XVIII. **Electrical properties of nitrogen implanted GaSe single crystal**  
KARABULUT O., Parlak M., Turan R., SERİNCAN U., TAŞARKUYU E., Akinoglu B. G.  
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.38, sa.9, ss.811-816, 2003 (SCI-Expanded)
- XIX. **Generation of a typical meteorological year using sunshine duration data**  
Ecevit A., AKINOĞLU B. G., Aksoy B.  
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- XX. **Thermodynamics study of gramicidin S and dipalmitoylphosphatidylcholine model membrane interactions based on the FTIR spectroscopy**  
AKINOĞLU B. G., Gheith M., Severcan F.  
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- XXI. **Vitamin D-2 modulates melittin-membrane interactions**  
Severcan F., Durmus H., Eker F., AKINOĞLU B. G., Haris P.  
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- XXII. **Application of turbidity technique on peptide-lipid and drug-lipid interactions**  
Eker F., Durmus H., AKINOĞLU B. G., Severcan F.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.482, ss.693-697, 1999 (SCI-Expanded)
- XXIII. **Solar domestic water heating in Turkey**  
AKINOĞLU B. G., Shariah A., Ecevit A.  
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- XXIV. **Spatial stabilization of Townsend and glow discharges with a semiconducting cathode**  
Salamov B., Ellialtioglu S., AKINOĞLU B. G., Lebedeva N., Patriskii L.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.29, sa.3, ss.628-633, 1996 (SCI-Expanded)
- XXV. **VISUALIZATION OF ELECTRICAL INHOMOGENEITIES IN HIGH-OHMIC SEMICONDUCTOR PLATES BY AN IONIZATION-TYPE PHOTOGRAPHIC SYSTEM**  
LEBEDEVA N., SALAMOV B., AKINOĞLU B. G., ALLAKHVERDIEV K.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.27, sa.6, ss.1229-1232, 1994 (SCI-Expanded)
- XXVI. **Pressure dependence of the raman spectra of cdinals4 layer crystal**  
HASANLI N., AKINOĞLU B. G., Babaev S., Ibragimov Z.  
High Pressure Research, cilt.13, ss.115-120, 1994 (SCI-Expanded)

- XXVII. **ENHANCEMENT OF THE RESOLUTION OF A SEMICONDUCTOR PHOTOGRAPHIC SYSTEM IN A MAGNETIC-FIELD**  
SALAMOV B., AKINOĞLU B. G., ELLIATLIOGLU S., ALLAKHVERDIEV K., LEBEDEVA N.  
JOURNAL OF PHOTOGRAPHIC SCIENCE, cilt.42, sa.3, ss.106-108, 1994 (SCI-Expanded)
- XXVIII. **Elastic Properties of GaS<sub>1-x</sub>Se<sub>x</sub> Layer Mixed Crystals by Brillouin Scattering**  
HASANLI N., AKINOĞLU B. G., Ellialtıođlu Ő.  
physica status solidi (b), cilt.177, sa.2, 1993 (SCI-Expanded)
- XXIX. **A FURTHER COMPARISON AND DISCUSSION OF SUNSHINE-BASED MODELS TO ESTIMATE GLOBAL SOLAR-RADIATION**  
AKINOĞLU B. G., ECEVIT A.  
ENERGY, cilt.15, sa.10, ss.865-872, 1990 (SCI-Expanded)
- XXX. **CONSTRUCTION OF A QUADRATIC MODEL USING MODIFIED ANGSTROM COEFFICIENTS TO ESTIMATE GLOBAL SOLAR-RADIATION**  
AKINOĞLU B. G., ECEVIT A.  
SOLAR ENERGY, cilt.45, sa.2, ss.85-92, 1990 (SCI-Expanded)

### **Diđer Dergilerde Yayınlanan Makaleler**

- I. **Assessment of photovoltaic module temperature estimation for four years with four different software**  
TOLGAY D., YAKUT M. S., ÖZDEN T., AKINOĞLU B. G.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, cilt.13, sa.1, ss.32-46, 2023 (Hakemli Dergi)
- II. **A simple correlation to estimate global solar irradiation on a horizontal surface using METEOSAT satellite images**  
Aksoy B., Ener RüŐen S., AKINOĞLU B. G.  
Turkish Journal of Engineering and Environmental Sciences, cilt.35, sa.2, ss.125-137, 2011 (Scopus)

### **Kitap & Kitap Bölümleri**

- I. **Fiziđin Temelleri 3 kitap**  
AKINOĞLU B. G., H Murat A.  
Palme Yayınevi, Ankara, 2015
- II. **Recent Advances in the Relations between Bright Sunshine Hours and Solar Irradiation**  
Aknođlu B. G.  
Modeling Solar Radiation at the Earth Surface, Viorel Badescu, Editör, Springer-Verlag , Bucuresti, ss.115-141, 2008

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Deep Learning Algorithm Applied to Daily Solar Irradiation Estimations**  
Akbaba E. C., YÜCE E., AKINOĞLU B. G.  
6th International Renewable and Sustainable Energy Conference, Rabat, Malta, 5 - 08 Aralık 2018
- II. **Long and short term PV module and array performance calculations and feasibility studies**  
AKINOĞLU B. G.  
IRSEC'18 – 6th International Renewable and Sustainable Energy Conference, Rabat, Malta, 5 - 08 Aralık 2018
- III. **Determining Photovoltaic Module Performance and Comparisons**  
Karaveli A. B., ÖZDEN T., AKINOĞLU B. G.  
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- IV. **Thermal Modeling and Verification of PV Module Temperature and Energy Yield Using Outdoor Measurements for Ankara, Turkey**  
Tuncel B., AKINOĞLU B. G., ÖZDEN T., Balog R. S.  
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- V. **Daily and Monthly Module Temperature Variation for 9 Different Modules**  
ÖZDEN T., Tolgay D., AKINOĞLU B. G.  
2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 Temmuz 2018, ss.4849-4854
- VI. **Performance and Degradation Analyses of two Different PV Modules in Central Anatolia**  
ÖZDEN T., AKINOĞLU B. G., Kurtz S.  
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- VII. **Measurement of economic feasibility of photovoltaic power plants - application to Turkey**  
Karaveli A. B., AKINOĞLU B. G., SOYTAŞ U.  
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- VIII. **The Role of Legislations and Incentives in the Growth of a PV Market in a Developing Country**  
Karaveli A. B., SOYTAŞ U., AKINOĞLU B. G.  
5th International Renewable and Sustainable Energy Conference, IRSEC 2017, Tangier, Fas, 4 - 07 Aralık 2017
- IX. **Impacts of a photovoltaic power plant for possible heat island effect**  
Demirezen E., Ozden T., Aknoğlu B. G.  
2018 International Conference on Photovoltaic Science and Technologies, PVCon 2018, Ankara, Türkiye, 4 - 06 Temmuz 2018
- X. **Approaching Net-Zero Energy Building Through Utilization of Building-Integrated Photovoltaics for Three Cities in Turkey-Preliminary Calculations**  
Uygun U., AKGÜL Ç., GÜRSEL DİNO İ., AKINOĞLU B. G.  
2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 Temmuz 2018
- XI. **Approaching Net-Zero Energy Building Through Utilization of Building-Integrated Photovoltaics for Three Cities in Turkey-Preliminary Calculations**  
Uygun U., Akgül Ç., Gürsel Dino I., Aknoğlu B. G.  
2018 International Conference on Photovoltaic Science and Technologies (PVCon), Ankara, Türkiye, 4 - 06 Temmuz 2018
- XII. **Correlations between the water levels of Lakes Beysehir and Marmara with sunshine duration and time series of sunspot numbers**  
Yıldırım U., YILMAZ İ. Ö., BEKLİOĞLU M., AKINOĞLU B. G.  
7th GLOBALCONFERENCE on GLOBAL WARMING, İzmir, Türkiye, 24 - 26 Haziran 2018, ss.153-156
- XIII. **Recent advances in solar irradiation predictions as the input of solar system simulations: From Earth's surface measurements to satellite imagery From Angstrom correlation to ANN**  
AKINOĞLU B. G.  
5th International Renewable and Sustainable Energy Conference, 4 - 07 Aralık 2017
- XIV. **Seasonal Variation of the Monthly Efficiencies of Thin Film PV Modules**  
ÖZDEN T., TURAN R., AKINOĞLU B. G.  
International Renewable and Sustainable Energy Conference - IRSEC-2017, 4 - 07 Aralık 2017
- XV. **On the Yearly Performance of a Bifacial PV Module in Central Anatolia - Turkey**  
ÖZDEN T., TURAN R., AKINOĞLU B. G.  
International Renewable and Sustainable Energy Conference - IRSEC-2017, 4 - 07 Aralık 2017
- XVI. **Evaluation and Comparisons of the Models to Calculate Solar Irradiation on Inclined Solar Panels for Ankara**  
ÖZDEN T., AKINOĞLU B. G., KARAVELİ A. B.  
33rd European PV Solar Energy Conference and Exhibition - EU PVSEC 2017, 25 - 29 Eylül 2017, ss.2501-2504
- XVII. **Preliminary Investigations on Two Different Procedures to Calculate the Efficiency and Performance Ratio of PV Modules**

ÖZDEN T., AKINOĞLU B. G.

4th International Conference on Computational and Experimental Science and Engineering (ICCESSEN 2017), 4 - 08 Ekim 2017, ss.225

**XVIII. Economic Analysis of a Typical Photovoltaic Power Plant in Turkey**

Karaveli A. B., AKINOĞLU B. G., SOYTAŞ U.

33rd European Photovoltaic Solar Energy Conference and Exhibition, 25 - 29 Eylül 2017, ss.2235-2239

**XIX. Yenilenebilir Enerji Mümkün mü? Dünya ve Türkiye**

AKINOĞLU B. G.

Güneydoğu Enerji Forumu, Türkiye, 25 Mayıs 2017

**XX. GUNAM's Outdoor PV Test Facility, recent research results and future prospects**

AKINOĞLU B. G., ÖZDEN T., TURAN R.

Desert PV Modules, 9 - 10 Mayıs 2017

**XXI. Effect of Ambient Conditions on Monthly Performances of Three Different PV Arrays**

ÖZDEN T., AKINOĞLU B. G., TURAN R.

11th ISES EuroSun Conference, Palma, İspanya, 11 - 14 Ekim 2016, ss.1266-1272

**XXII. Estimation of diffuse component for two locations in Turkey**

Karaveli A. B., AKINOĞLU B. G.

11th ISES EuroSun Conference, Palma, İspanya, 11 - 14 Ekim 2016, ss.1467-1474

**XXIII. LONG TERM OUTDOOR TESTING OF TWO DIFFERENT THIN FILM PV MODULES IN ANKARA TURKEY**

ÖZDEN T., AKINOĞLU B. G., TURAN R.

9th International Conference on Sustainable Energy & Environmental Protection, 21 Eylül 2016

**XXIV. COMPARISON OF QUADRATIC AND LINEAR MODELS ON THE ESTIMATION OF DIFFUSE SOLAR RADIATION FOR FOUR LOCATIONS IN TURKEY**

Karaveli A. B., AKINOĞLU B. G.

9th International Conference on Sustainable Energy & Environmental Protection, 21 Eylül 2016

**XXV. INVESTIGATING THE FACTORS AFFECTING WILLINGNESS TO PAY FOR RESIDENTIAL PHOTOVOLTAIC SYSTEMS A SURVEY STUDY IN ANKARA TURKEY**

Aslihak E., ÖZDEMİR Ö., AKINOĞLU B. G.

9th International Conference on Sustainable Energy & Environmental Protection, 21 Eylül 2016

**XXVI. Outdoor efficiency analyses and comparison of on-grid CdTe and mu c-Si/a-Si thin-film PV systems for three years in Ankara - Turkey**

ÖZDEN T., Yardım U., AKINOĞLU B. G., TURAN R.

3rd Turkish Solar Electricity Conference and Exhibition (SolarTR), Ankara, Türkiye, 27 - 29 Nisan 2015, cilt.12, ss.1283-1287

**XXVII. QUADRATIC VARIATION OF GLOBAL SOLAR RADIATION WITH BRIGHT SUNSHINE HOURS**

AKINOĞLU B. G.

2ND WORLD RENEWABLE ENERGY CONGRESS, Birleşik Krallık, 13 Eylül - 18 Ocak 1992, ss.2774-2778

## Desteklenen Projeler

AKINOĞLU B. G., ÖZDEN T., DEMİREZEN E., Yükseköğretim Kurumları Destekli Proje, Fotovoltaik Güneş Enerjisi Santralleri Kaynaklı Isı Adası Etkisinin Yerinde Ölçümler ile Belirlenmesi-Sekbandemirli GES için Saha Çalışması ve Simülasyon, 2020 - 2021

AKINOĞLU B. G., YILMAZ A., Demirezen E., Özden T. ( D. D., TURAN R., Yükseköğretim Kurumları Destekli Proje, Türkiye’de Büyük Ölçekli Güneş Enerjisi Santrallerinden Kaynaklı Olası “Isı Adası” Etkisinin İncelenmesi, 2017 - 2017

## Metrikler

Yayın: 64

Atıf (WoS): 645

Atıf (Scopus): 737

H-İndeks (WoS): 14

H-İndeks (Scopus): 14

## **Akademi Dışı Deneyim**

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