# Prof. BÜLENT GÜLTEKİN AKINOĞLU

### **Personal Information**

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#### International Researcher IDs

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

ScopusID: 6602089703

Yoksis Researcher ID: 12876

### **Education Information**

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (Dr), Turkey 1982 - 1989

## Foreign Languages

English, C1 Advanced

#### **Research Areas**

**Natural Sciences** 

## **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2001 - Continues Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1990 - 2001 Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1991 - 1993 Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1990 - 1991 Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1979 - 1990

### **Courses**

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

GENERAL PHYSICS II (ELECTRICITY AND MAGNETISM), Undergraduate, 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, Postgraduate, 2018 - 2019, 2017 - 2018

GENERAL PHYSICS I, Undergraduate, 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 SOLAR ENERGY 2, Undergraduate, 2017 - 2018, 1994 - 1995, 1993 - 1994, 1992 - 1993

ELEKTROMAGNETIC THEORY I, Postgraduate, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 1998 - 1999, 1997 - 1998

MODERN PHYSICS, Undergraduate, 1997 - 1998

KATIHAL FİZİĞİ, Postgraduate, 1996 - 1997

QUANTUM PHYSICS, Undergraduate, 1994 - 1995, 1993 - 1994, 1992 - 1993

## **Advising Theses**

Akınoğlu B. G., Monitoring and analyzing the sustainability performance of a renewable energy investment with a case study-tugra hepp, Postgraduate, İ.KALEMCİ(Student), 2023

Akınoğlu B. G., Climate change and agriculture: The impact of climate change on crop production in Türkiye, Doctorate, S.SİMİN(Student), 2023

Kilkiş Ş., Akınoğlu B. G., A Sustainable Approach to Solar Technologies: Recycling Solar Panels In Turkey, Postgraduate, A.Aşkın(Student), 2022

AKINOĞLU B. G., Monitoring, analysis, and simulation of photovoltaic heat island effect in Turkey: Sekbandemirli solar power plant field study, Doctorate, E.DEMİREZEN(Student), 2022

AKINOĞLU B. G., Evaluating maritime intelligent transportation systems: The case of using electric ferries and renewable energy in Türkiye, Doctorate, C.PENSE(Student), 2022

AKINOĞLU B. G., Calculation of the macroeconomic carbon rebound effect of the European Union emission trading system, Doctorate, C.KAAN(Student), 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, Postgraduate, N.IRMAK(Student), 2022

AKINOĞLU B. G., Long term performance and degradation rates of PV modules in Central Anatolia, Postgraduate, Z.CANTÜRK(Student), 2021

AKINOĞLU B. G., Natural gas infrastructure expansions in Turkey: Economic feasibility and a cost comparison with PV investments, Postgraduate, B.MANSIZ(Student), 2021

ERCAN H., AKINOĞLU B. G., Emission reduction vs exploitation of domestic fossil sources:is climate change mitigation compatible with using domestic coal, Doctorate, H.HÜSEYİN(Student), 2021

Akinoğlu B. G., Description and verification of a model to calculate the efficiency of a bifacial pv module using theoretical and experimental observations, Postgraduate, B.Durusoy(Student), 2020

AKINOĞLU B. G., Technical potential of rooftop solar photovoltaic for Ankara: A preliminary study, Postgraduate, E.Ceren(Student), 2020

AKINOĞLU B. G., Using artificial neural network (ANN) techniques for solar irradiation predictions, Postgraduate, E.Can(Student), 2019

AKINOĞLU B. G., Investigating the performances of photovoltaic modules/systems for Central Anatolia using a thermal modeling approach, Postgraduate, B.Tunçel(Student), 2019

Akınoğlu B. G., INVESTIGATING THE PERFORMANCES OF PHOTOVOLTAIC MODULES/SYSTEMS FOR CENTRAL ANATOLIA USING A THERMAL MODELLING APPROACH, Postgraduate, B.TUNÇEL(Student), 2019

AKINOĞLU B. G., Development of the algorithm of solar TURnKEY: Solar electricity software for Turkey, Doctorate, A.BUĞRAHAN(Student), 2018

ÖZDEMİR Ö., AKINOĞLU B. G., Investigating preferences of households for residential photovoltaic systems: A survey study in Ankara, Turkey, Postgraduate, E.ASLIHAK(Student), 2016

AKINOĞLU B. G., SOYTAŞ U., Decarbonization of turkish public electricity sector: Adopting sustainable energy portfolio, Postgraduate, H.ŞAHİN(Student), 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, Postgraduate, A.BUĞRAHAN(Student), 2014

AKINOĞLU B. G., Linking satellite imagery to bright sunshine hours for the estimation of global solar irradiation,

Doctorate, S.ENER(Student), 2013

AKINOĞLU B. G., YILMAZ İ. Ö., Analysis of sunshine duration between 1970 and 2010 for Turkey, Postgraduate, U.YILDIRIM(Student), 2013

AKINOĞLU B. G., Photoluminescence study of ge-implanted gase and inse single crystals grown by bridgman method, Postgraduate, S.Bilgi(Student), 2006

AKINOĞLU B. G., Akınoğlu B., Steady state and transient simulations in 2D and 3D for crystal growth by vertical bridgman systems, Doctorate, E.Taşarkuyu(Student), 2003

AKINOĞLU B. G., PARLAK M., Structural electrical and optical characterization of N- and Si-implanted GaSe single crystal grown by bridgman method, Doctorate, O.Karabulut(Student), 2003

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

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, vol.17, no.12, 2024 (SCI-Expanded)

II. OUTDOOR DEGRADATION ANALYSES OF SIX DIFFERENT AGED PHOTOVOLTAIC MODULE TECHNOLOGIES UNDER THE ARID-STEPPE CLIMATE CONDITION

Cantürk Z., ÖZDEN T., AKINOĞLU B. G.

Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.44, no.1, pp.103-115, 2024 (SCI-Expanded)

III. Is there a macroeconomic carbon rebound effect in EU ETS?

Bolat C. K., Soytas U., AKINOĞLU B. G., Nazlioglu S.

Energy Economics, vol.125, 2023 (SSCI)

IV. Recycling photovoltaic modules within a circular economy approach and a snapshot for Türkiye Aşkın A., KILKIŞ Ş., AKINOĞLU B. G.

Renewable Energy, vol.208, pp.583-596, 2023 (SCI-Expanded)

V. 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.

RENEWABLE ENERGY, vol.206, pp.694-709, 2023 (SCI-Expanded)

VI. Technical potential of rooftop solar photovoltaic for Ankara

Kutlu E. C., Durusoy B., Ozden T., AKINOĞLU B. G.

Renewable Energy, vol.185, pp.779-789, 2022 (SCI-Expanded)

VII. 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.

ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.42, no.2, pp.157-168, 2022 (SCI-Expanded)

VIII. 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, vol.46, 2021 (SCI-Expanded)

IX. Solar irradiation on the rear surface of bifacial solar modules: a modeling approach

Durusoy B., ÖZDEN T., AKINOĞLU B. G.

SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)

X. 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.

RENEWABLE ENERGY, vol.145, pp.557-568, 2020 (SCI-Expanded)

XI. Comparisons and critical assessment of global and diffuse solar irradiation estimation methodologies

Karaveli A. B., AKINOĞLU B. G.

INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.15, no.5, pp.325-332, 2018 (SCI-Expanded)

XII. Development of new monthly global and diffuse solar irradiation estimation methodologies and comparisons

Karaveli A. B., AKINOĞLU B. G.

INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.15, no.5, pp.333-346, 2018 (SCI-Expanded)

XIII. 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, vol.101, pp.182-195, 2017 (SCI-Expanded)

XIV. 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, vol.84, pp.656-665, 2015 (SCI-Expanded)

XV. 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, vol.58, pp.417-425, 2013 (SCI-Expanded)

XVI. Combining the satellite imagery with bright sunshine hours: A review

AKINOĞLU B. G., Rusen S. E.

JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.5, no.4, 2013 (SCI-Expanded)

XVII. 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.

CRYSTAL RESEARCH AND TECHNOLOGY, vol.41, no.3, pp.243-249, 2006 (SCI-Expanded)

XVIII. Optical anisotropy in GaSe

Seyhan A., Karabulut O., AKINOĞLU B. G., Aslan B., Turan R.

CRYSTAL RESEARCH AND TECHNOLOGY, vol.40, no.9, pp.893-895, 2005 (SCI-Expanded)

XIX. 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, vol.38, no.9, pp.811-816, 2003 (SCI-Expanded)

XX. Generation of a typical meteorological year using sunshine duration data

Ecevit A., AKINOĞLU B. G., Aksoy B.

ENERGY, vol.27, no.10, pp.947-954, 2002 (SCI-Expanded)

XXI. Thermodynamics study of gramicidin S and dipalmitoylphosphatidylcholine model membrane interactions based on the FTIR spectroscopy

AKINOĞLU B. G., Gheith M., Severcan F.

JOURNAL OF MOLECULAR STRUCTURE, vol.565, pp.281-285, 2001 (SCI-Expanded)

XXII. Vitamin D-2 modulates melittin-membrane interactions

Severcan F., Durmus H., Eker F., AKINOĞLU B. G., Haris P.

TALANTA, vol.53, no.1, pp.205-211, 2000 (SCI-Expanded)

XXIII. Application of turbidity technique on peptide-lipid and drug-lipid interactions

Eker F., Durmus H., AKINOĞLU B. G., Severcan F.

JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.693-697, 1999 (SCI-Expanded)

XXIV. Solar domestic water heating in Turkey

AKINOĞLU B. G., Shariah A., Ecevit A.

ENERGY, vol.24, no.5, pp.363-374, 1999 (SCI-Expanded)

XXV. 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, vol.29, no.3, pp.628-633, 1996 (SCI-Expanded)

# XXVI. 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, vol.27, no.6, pp.1229-1232, 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, vol.42, no.3, pp.106-108, 1994 (SCI-Expanded)

# XXVIII. Pressure dependence of the raman spectra of cdinals4 layer crystal

HASANLI N., AKINOĞLU B. G., Babaev S., Ibragimov Z.

High Pressure Research, vol.13, pp.115-120, 1994 (SCI-Expanded)

### XXIX. Elastic Properties of GaS1-xSex Layer Mixed Crystals by Brillouin Scattering

HASANLI N., AKINOĞLU B. G., Ellialtioğlu Ş.

physica status solidi (b), vol.177, no.2, 1993 (SCI-Expanded)

# XXX. A FURTHER COMPARISON AND DISCUSSION OF SUNSHINE-BASED MODELS TO ESTIMATE GLOBAL SOLAR-RADIATION

AKINOĞLU B. G., ECEVIT A.

ENERGY, vol.15, no.10, pp.865-872, 1990 (SCI-Expanded)

# XXXI. CONSTRUCTION OF A QUADRATIC MODEL USING MODIFIED ANGSTROM COEFFICIENTS TO ESTIMATE GLOBAL SOLAR-RADIATION

AKINOĞLU B. G., ECEVIT A.

SOLAR ENERGY, vol.45, no.2, pp.85-92, 1990 (SCI-Expanded)

# Articles Published in Other Journals

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, vol.13, no.1, pp.32-46, 2023 (Peer-Reviewed Journal)

II. A simple correlation to estimate global solar irradiation on a horizontal surface using METEOSAT satellite images

Aksoy B., Ener Rüşen S., AKINOĞLU B. G.

Turkish Journal of Engineering and Environmental Sciences, vol.35, no.2, pp.125-137, 2011 (Scopus)

## **Books & Book Chapters**

I. Fiziğin 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 Akınoğlu B. G.

in: Modeling Solar Radiation at the Earth Surface, Viorel Badescu, Editor, Springer-Verlag , Bucuresti, pp.115-141, 2008

## Refereed Congress / Symposium Publications in Proceedings

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 December 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 December 2018

III. Determining Photovoltaic Module Performance and Comparisons

Karaveli A. B., ÖZDEN T., AKINOĞLU B. G.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 July 2018, pp.1-5

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.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 July 2018

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 July 2018, pp.4849-4854

VI. Performance and Degradation Analyses of two Different PV Modules in Central Anatolia ÖZDEN T., AKINOĞLU B. G., Kurtz S.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 July 2018

VII. Measurement of economic feasibility of photovoltaic power plants - application to Turkey Karaveli A. B., AKINOĞLU B. G., SOYTAŞ U.

2018 International Conference on Photovoltaic Science and Technologies, PVCon 2018, Ankara, Turkey, 4 - 06 July 2018

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, Morocco, 4 - 07 December 2017

IX. Impacts of a photovoltaic power plant for possible heat island effect

Demirezen E., Ozden T., Akınoğlu B. G.

2018 International Conference on Photovoltaic Science and Technologies, PVCon 2018, Ankara, Turkey, 4 - 06 July 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 July 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., Akınoğlu B. G.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), Ankara, Turkey, 4 - 06 July 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, Turkey, 24 - 26 June 2018, pp.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 December 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 December 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 December 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 September 2017, pp.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 (ICCESEN 2017), 4 - 08 October 2017, pp.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 September 2017, pp.2235-2239

XIX. Yenilenebilir Enerji Mümkün mü? Dünya ve Türkiye

AKINOĞLU B. G.

Güneydoğu Enerji Forumu, Turkey, 25 May 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 May 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, Spain, 11 - 14 October 2016, pp.1266-1272

XXII. Estimation of diffuse component for two locations in Turkey

Karaveli A. B., AKINOĞLU B. G.

11th ISES EuroSun Conference, Palma, Spain, 11 - 14 October 2016, pp.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 September 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 September 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.

 $9 th \ International \ Conference \ on \ Sustainable \ Energy \ \& \ Environmental \ Protection, \ 21 \ September \ 2016$ 

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., Yardim U., AKINOĞLU B. G., TURAN R.

3rd Turkish Solar Electricity Conference and Exhibition (SolarTR), Ankara, Turkey, 27 - 29 April 2015, vol.12, pp.1283-1287

XXVII. QUADRATIC VARIATION OF GLOBAL SOLAR RADIATION WITH BRIGHT SUNSHINE HOURS AKINOĞLU B. G.

2ND WORLD RENEWABLE ENERGY CONGRESS, United Kingdom, 13 September - 18 January 1992, pp.2774-2778

## **Supported Projects**

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., Project Supported by Higher Education Institutions, Türkiye'de Büyük Ölçekli Güneş Enerjisi Santrallerinden Kaynaklı Olası "Isı Adası" Etkisinin İncelenmesi, 2017 - 2017

## Metrics

Publication: 65 Citation (WoS): 650 Citation (Scopus): 744 H-Index (WoS): 14 H-Index (Scopus): 14

# Non Academic Experience

METU

**METU** 

METU