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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

Advising Theses

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, Post Graduate, E.ASLIHAK(Student), 2016

SOYTAŞ U., AKINOĞLU B. G. , Nuclear energy versus solar energy (Nuke vs. PV): The comparison of their economic feasibilities and environmental aspects for Turkey, Post Graduate, A.BUĞRAHAN(Student), 2014

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

AKINOĞLU B. G. , Linking satellite imagery to bright sunshine hours for the estimation of global solar irradiation, Doctorate, S.ENER(Student), 2013

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

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

- **Solar irradiation on the rear surface of bifacial solar modules: a modeling approach**
Durusoy B., ÖZDEN T., AKINOĞLU B. G.
SCIENTIFIC REPORTS, vol.10, 2020 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI Expanded)
- **Elastic Properties of GaS1–xSex Layer Mixed Crystals by Brillouin Scattering**
HASANLI N., AKINOĞLU B. G., Ellialtıođlu Ş.
physica status solidi (b), vol.177, 1993 (Journal Indexed in SCI)

Books & Book Chapters

- **Fiziđin Temelleri 3 kitap**
AKINOĞLU B. G., H Murat A.
Palme Yayınevi, Ankara, 2015

Refereed Congress / Symposium Publications in Proceedings

- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **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

● **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, Turkey, 4 - 06 July 2018

● **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

● **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, Turkey, 4 - 06 July 2018

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **Yenilenebilir Enerji Mümkün mü? Dünya ve Türkiye**

AKINOĞLU B. G.

Güneydoğu Enerji Forumu, Turkey, 25 May 2017

● **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

● **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

- **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
- **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
- **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
- **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 September 2016
- **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
- **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

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

Citations

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