

Res. Asst. PhD Ali AJDER



Personal Information

Office Phone: [+90 212 383 5828](tel:+902123835828)

Fax Phone: [+90 212 383 5858](tel:+902123835858)

Email: aliajder@yildiz.edu.tr

Web: <http://avesis.yildiz.edu.tr/aliajder/>

Address: Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi Elektrik Mühendisliği Bölümü C Blok Davutpaşa Mah., Davutpaşa Caddesi 34220 Esenler- İstanbul



Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği Bölümü, Turkey 2011 - 2017

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği Bölümü, Turkey 2008 - 2011

Undergraduate Double Major, Yıldız Technical University, Faculty Of Economic And Administrative Sciences, Department Of Administration, Turkey 2002 - 2009

Undergraduate, Yıldız Technical University, Elektrik Elektronik Fakültesi, Elektrik Mühendisliği, Turkey 2002 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yenilenebilir Enerji Kaynaklarına Dayalı Üretim Tesislerini İçeren Güç Sistemlerinde Optimum Yedek Rezerv Miktarının Belirlenmesi, Yıldız Teknik Üniversitesi, Elektrik Mühendisliği, Elektrik Tesisleri, 2017

Postgraduate, Fotovoltaik güneş enerjisi sistemleri için optimum eğim açısının hesaplanması, Yıldız Teknik Üniversitesi, Fen Bilimleri, Elektrik Mühendisliği Anabilim Dalı/ Elektrik Tesisleri Yüksek Lisans Programı, 2011

Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2009 - Continues

Courses

Probability and Biostatistics, Undergraduate, 2018 - 2019, 2019 - 2020

Probability and Statistics, Undergraduate, 2018 - 2019, 2019 - 2020

Örnekleme ve Veri Analizi, Undergraduate, 2017 - 2018

Engineering Mathematics, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analytical voltage drop calculations during direct on line motor starting: Solutions for industrial plants**
Kucuk S., AJDER A.
Ain Shams Engineering Journal, vol.13, no.4, 2022 (Journal Indexed in SCI Expanded)
- II. **A New MPPT Algorithm for Vehicle Integrated Solar Energy System**
Nakir İ., Durusu A., Akca H., Ajder A., Ayaz R., Ugur E., Tanrioven M.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.138, 2016 (Journal Indexed in SCI)
- III. **Performance Comparison of Widely-Used Maximum Power Point Tracker Algorithms under Real Environmental Conditions**
Durusu A., Nakir İ., Ajder A., Ayaz R., Akca H., Tanrioven M.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.14, pp.89-94, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Impact of Climatic Conditions on PV Array's Optimum Tilt Angle**
Ajder A., Durusu A., Nakir İ.
Avrupa Bilim ve Teknoloji Dergisi, no.13, pp.84-90, 2018 (Other Refereed National Journals)
- II. **Sizing of PV Based LED Lighting System Considering Minimum Solar Radiation Level**
AJDER A., AKÇA H., AKDEMİR H., AYAZ R., NAKİR İ., TANRIÖVEN M.
International Journal of Advancements in Mechanical and Aeronautical Engineering, vol.3, no.1, pp.27-31, 2016 (Refereed Journals of Other Institutions)
- III. **Comparison of Road Lighting Luminaires for M2 Road Lighting Class Considering Energy Efficiency**
AYAZ R., Kaymaz A., AKÇA H., AJDER A., ÜNAL A., TANRIÖVEN M.
International Journal of Advances in Electronics Engineering- IJAEE, vol.6, no.1, pp.103-107, 2016 (Refereed Journals of Other Institutions)
- IV. **The Effect of LED Chip Connection Type on Lighting and Thermal Performance of A Luminaire**
AKÇA H., AKDEMİR H., AYAZ R., AJDER A., NAKİR İ., TANRIÖVEN M.
International Journal of Advances in Electronics Engineering- IJAEE, vol.6, no.1, pp.98-102, 2016 (Refereed Journals of Other Institutions)
- V. **Online Load Shifting of Electricity Production Consumption for Reducing Environmental Hazard**
Toros H., Ayaz R., Ajder A., Durusu A., Yıldırım H.
European Journal of Science and Technology, vol.1, pp.39-42, 2014 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Network Reduction Methods on DG Planning Studies**
DOĞANŞAHİN K., KEKEZOĞLU B., AJDER A., YUMURTACI R.
International Conference on Engineering Technologies, Konya, Turkey, 07 December 2017, pp.501-505
- II. **Review of Reduction and Simplification Methods for Transmission Networks**
AJDER A., DOĞANŞAHİN K., AY S.

5th International Conference on Advanced Technology & Sciences, İstanbul, Turkey, 09 May 2017, pp.206

III. A Comparative Study Of Isotropic And Anisotropic Sky Models To Determine Of Optimum Orientation Angles For PV Arrays

AKDEMİR H., AJDER A., AKÇA H., TANRIÖVEN M.

2nd International Conference on Engineering and Natural Sciences(ICENS2016), Saraybosna, Bosnia And Herzegovina, 24 May 2016, vol.10, pp.2550-2557

IV. Impact of Renewable Energy Systems on Spinning Reserves

AJDER A., Akdemir H., Tanrıöven M.

The 2nd International Conference on Engineering and Natural Sciences (ICENS 2016), 01 May 2016

V. A new approach for relationship between daylight and indoor illumination level

AYAZ R., NAKİR İ., AKÇA H., AJDER A., TANRIÖVEN M.

2014 International Conference on Renewable Energy Research and Application (ICRERA), Milwaukee, WI, USA, 19 - 22 October 2014, pp.833-836

VI. A New Approach For Relationship Between Daylight and Indoor Illumination Level

Nakir İ., Akça H., Ajder A., TANRIÖVEN M.

3rd International Conference on Renewable Energy Research and Applications (ICRERA), 01 October 2014

VII. Thermal management of power LED system

Akca H., Yasa Y., Ayaz R., Durusu A., Ajder A., Nakir İ., Tanrioven M.

3rd International Conference on Renewable Energy Research and Applications, ICRERA 2014, Wisconsin, United States Of America, 19 - 22 October 2014, pp.760-764

Supported Projects

AJDER A., Project Supported by Higher Education Institutions, COVID-19 Salgınının Gün Öncesi Piyasası Elektrik Talep Tahminine Etkisinin İncelenmesi, 2021 - 2022

Memberships / Tasks in Scientific Organizations

IEEE- The Institute of Electrical and Electronics Engineers, Member, 2013 - Continues

IAEE- International Association for Energy Economics, Member, 2013 - Continues

EED- Enerji Ekonomisi Derneği, Member, 2013 - Continues

Scientific Refereeing

Electric Power Systems Research, Journal Indexed in SCI-E, September 2021

Electric Power Systems Research, Journal Indexed in SCI-E, June 2021

Electric Power Systems Research, Journal Indexed in SCI-E, June 2021

RENEWABLE ENERGY, Journal Indexed in SCI-E, June 2021

Electric Power Systems Research, Journal Indexed in SCI-E, May 2021

RENEWABLE ENERGY, Journal Indexed in SCI-E, November 2020

Electric Power Systems Research, Journal Indexed in SCI-E, October 2020

Electric Power Systems Research, Journal Indexed in SCI-E, July 2020

Applied Energy, Journal Indexed in SCI-E, March 2020

RENEWABLE ENERGY, Journal Indexed in SCI-E, February 2020

Electric Power Systems Research, Journal Indexed in SCI-E, January 2020

VSI:PSCC 2020, Conference Paper (Full Text), November 2019

RENEWABLE ENERGY, Journal Indexed in SCI-E, November 2019

RENEWABLE ENERGY, Journal Indexed in SCI-E, April 2019

VSI:PVCon2018, Conference Paper (Full Text), December 2018
Applied Energy, Journal Indexed in SCI-E, November 2018
RENEWABLE ENERGY, Journal Indexed in SCI-E, August 2018
RENEWABLE ENERGY, Journal Indexed in SCI-E, July 2018
RENEWABLE ENERGY, Journal Indexed in SCI-E, July 2018
IEEE Journal of Photovoltaics, Journal Indexed in SCI-E, June 2018
RENEWABLE ENERGY, Journal Indexed in SCI-E, May 2018
VSI:DEM 2018, Conference Paper (Full Text), April 2018
VSI:DEM 2018, Conference Paper (Full Text), April 2018
IEEE Journal of Photovoltaics, Journal Indexed in SCI-E, February 2018
Applied Energy, Journal Indexed in SCI-E, January 2018
Applied Energy, Journal Indexed in SCI-E, January 2018
IEEE Journal of Photovoltaics, Journal Indexed in SCI-E, August 2017
Applied Energy, Journal Indexed in SCI-E, May 2017
SI:ICAE2016, Conference Paper (Full Text), May 2017
Applied Energy, Journal Indexed in SCI-E, May 2017
Applied Energy, Journal Indexed in SCI-E, April 2017
Applied Energy, Journal Indexed in SCI-E, April 2017
Journal Of Cleaner Production, Journal Indexed in SCI-E, April 2017
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Applied Energy, Journal Indexed in SCI-E, March 2017
Journal Of Cleaner Production, Journal Indexed in SCI-E, February 2017
Applied Energy, Journal Indexed in SCI-E, February 2017
Applied Energy, Journal Indexed in SCI-E, January 2017
SI:ICAE2016, Conference Paper (Full Text), January 2017

Citations

Total Citations (WOS):19

h-index (WOS):3

Invited Talks

Turkey Academic Forum, Seminar, The Mathworks, Turkey, October 2021