

Doç.Dr. ERDEM CÜCE

Kişisel Bilgiler

İş Telefonu: [+90 464 223 7518](tel:+904642237518) Dahili: 1203

Fax Telefonu: [+90 464 223 7514](tel:+904642237514)

E-posta: erdem.cuce@erdogan.edu.tr

Diğer E-posta: erdemcuce@gmail.com

Web: <https://www.erdemcuce.com>

Posta Adresi: Department of Mechanical Engineering, Faculty of Engineering and Architecture, Recep Tayyip Erdogan University, Zihni Derin Campus, 53100 Rize, Turkey

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-0150-4705

Publons / Web Of Science ResearcherID: P-4562-2015

Yoksis Araştırmacı ID: 152577

Eğitim Bilgileri

Post Doktora, University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, Birleşik Krallık 2014 - 2016

Doktora, The University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, Birleşik Krallık 2012 - 2014

Yüksek Lisans, University of London, Birbeck College, London Foundation Campus, Master's Foundation Programme (Mfp) İn Engineering, Birleşik Krallık 2011 - 2012

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 2006 - 2009

Lisans, Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye 2002 - 2006

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Enerji, Alternatif Enerji Kaynakları, Enerji depolama teknolojileri, Güneş Enerjisi, İleri Enerji Teknolojileri, Termodinamik, Isı ve Madde Transferi, Isıtma, Soğutma ve Havalandırma , Isıl Sistemler, Sayısal Analiz

Akademik Unvanlar / Görevler

Doç.Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Makine Mühendisliği, 2021 - Devam Ediyor

Akademik İdari Deneyim

TTO Koordinatörü, Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 2022 -

Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Makine Mühendisliği,
2020 - 2021

Yönetilen Tezler

Cüce E., Mert Cüce A. P., Güneş bacası güç santrallerinin parametrik optimizasyonu, Yüksek Lisans, H.ŞEN(Öğrenci), 2021

Cüce E., Mert Cüce A. P., Boşluklu yapı elemanlarında geometrik optimizasyon ile ısı direncin iyileştirilmesi için termal stratejilerin geliştirilmesi, Yüksek Lisans, A.BURHANEDDİN(Öğrenci), 2020

Cüce E., Mert Cüce A. P., Termoelektrik soğutucularda nanoakışkan kullanımının soğutma gücü ve temel performans parametreleri üzerine etkisi, Yüksek Lisans, T.GÜÇLÜ(Öğrenci), 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **An experimental case study on the effect of condenser geometry in a refrigerator: Sub-cooling and coefficient of performance issues**
Borikar S. A., Borikar D. A., Panchal H., Cüce E., Dalkılıç A. S., Alrubaiie A. J., Jaber M. M.
INTERNATIONAL JOURNAL OF REFRIGERATION, cilt.148, ss.75-82, 2023 (SCI-Expanded)
- II. **Experimental studies of latent heat storage based solar air heater for space heating: A comparative analysis**
Saxena A., Cüce E., Singh D. B., Sethi M., Mert Cüce A. P., Sagade A. A., Kumar A.
JOURNAL OF BUILDING ENGINEERING, cilt.69, ss.106282, 2023 (SCI-Expanded)
- III. **Characterization of biodiesel based on plastic pyrolysis oil (PPO) and coconut oil: Performance and emission analysis using RSM-ANN approach**
Afzal A., Roy R. G., Koshy C. P., Y A., Abbas M., Cüce E., Rk A. R., Saboor S., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.56, ss.103046, 2023 (SCI-Expanded)
- IV. **Performance evaluation of using evacuated tubes solar collector, perforated fins, and pebbles in a solar still-experimental study and CO2 mitigation analysis**
Panchal H., Sohani A., Van Nguyen N., Shoeibi ., Khiadani M., Huy P. Q., Hoseinzadeh S., Kabeel A. E., Saboor S., Cüce E.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.30, sa.5, ss.11769-11784, 2023 (SCI-Expanded)
- V. **Heat transfer studies on solar parabolic trough collector using corrugated tube receiver with conical strip inserts**
Venkatesaperumal R., Jafar K. S., Elumalai P. V., Abbas M., Cüce E., Saboor S., Saleel C. A.
SUSTAINABILITY, cilt.15, sa.1, ss.378, 2023 (SCI-Expanded)
- VI. **Experimental and theoretical examination of the energy performance and CO2 emissions of room air conditioners utilizing natural refrigerant R290 as a substitute for R22**
Shaik S. V., Gorantla K., Saboor S., Afzal A., Rajhi A. A., Cüce E.
Journal of Thermal Analysis and Calorimetry, cilt.147, sa.24, ss.1-19, 2023 (SCI-Expanded)
- VII. **Weather impact on solar farm performance: A comparative analysis of machine learning techniques**
Gopi A., Sharma P., Sudhakar K., Ngui W. K., Kirpichnikova I., Cüce E.
SUSTAINABILITY, cilt.15, sa.1, ss.439, 2023 (SCI-Expanded)
- VIII. **Thermal sensitivity and potential cooling-related energy saving of masonry walls through the lens of solar heat-rejecting paints at varying orientations**
Kontoleon K. J., Saboor S., Mazzeo D., Ahmad J., CÜCE E.
APPLIED ENERGY, cilt.329, 2023 (SCI-Expanded)
- IX. **Dependence of electrical power output on collector size in Manzanares solar chimney power plant: An investigation for thermodynamic limits**
Cüce E.

INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, cilt.17, ss.1223-1231, 2022 (SCI-Expanded)

- X. **Solar farm: Siting, design and land footprint analysis**
Sukumaran S, Sudhakar K, Yusop A. F., Kirpichnikova I, Cüce E.
INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, cilt.17, ss.1478-1491, 2022 (SCI-Expanded)
- XI. **Optimization of performance and emission characteristics of the CI engine fueled with preheated palm oil in blends with diesel fuel**
Mohamed I. S, Venkatesan E. P., Parthasarathy M., Medapati S. R., Abbas M., Cüce E., Saboor S.
SUSTAINABILITY, cilt.14, sa.23, ss.15487, 2022 (SCI-Expanded)
- XII. **Effect of using hybrid nanofluids as a coolant on the thermal performance of portable thermoelectric refrigerators**
MERT CÜCE A. P., CÜCE E., Guclu T., Shaik S., Alshahrani S., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.53, 2022 (SCI-Expanded)
- XIII. **Experimental and parametric studies on the effect of waste cooking oil methyl ester with diesel fuel in compression ignition engine**
Rajak U., Singh T. S., Verma T. N., Chaurasiya P. K., Saboor S., Afzal A., Cüce E., Rajhi A. A., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.53, ss.102705, 2022 (SCI-Expanded)
- XIV. **Heat storage and release performance of cascade phase change units for solar heating in a severe cold region of China**
Zhang L., Liu Z., Jin G., Cüce E., Jin J., Guo S.
ENERGIES, cilt.15, sa.19, ss.7421, 2022 (SCI-Expanded)
- XV. **Performance Evaluation of Solar Chimney Power Plants with Bayburt Stone and Basalt on the Ground as Natural Energy Storage Material**
MERT CÜCE A. P., CÜCE E., Alshahrani S., Saboor S., Sen H., Veza I., Saleel C. A.
SUSTAINABILITY, cilt.14, sa.17, 2022 (SCI-Expanded)
- XVI. **Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review**
Mojumder M. R. H., Hasanuzzaman M., CÜCE E.
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, cilt.24, sa.7, ss.1987-2009, 2022 (SCI-Expanded)
- XVII. **A thermodynamic review on solar ponds**
Saxena A., CÜCE E., Singh D. B., MERT CÜCE A. P., Gupta P., Suryavanshi A., Farrokhi M., El-Sebaei A. A.
SOLAR ENERGY, cilt.242, ss.335-363, 2022 (SCI-Expanded)
- XVIII. **UV coated acrylics as a substitute for generic glazing in buildings of Indian climatic conditions: Prospective for energy savings, CO2 abatement, and visual acceptability**
Maduru V. R., Shaik S., CÜCE E., Afzal A., Panchal H., MERT CÜCE A. P.
ENERGY AND BUILDINGS, cilt.268, 2022 (SCI-Expanded)
- XIX. **Perovskite solar cells: A review of the recent advances**
Roy P., Ghosh A., Barclay F., Khare A., Cüce E.
COATINGS, cilt.12, sa.8, ss.1089, 2022 (SCI-Expanded)
- XX. **Thermal Performance Study of Solar Air Dryers for Cashew Kernel: A Comparative Analysis and Modelling Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN)**
Huddar V. B., Razak A., CÜCE E., Gadwal S., Alwetaishi M., Afzal A., Saleel C. A., Shaik S.
INTERNATIONAL JOURNAL OF PHOTOENERGY, cilt.2022, 2022 (SCI-Expanded)
- XXI. **A thermodynamic review on solar stills**
Saxena A., CÜCE E., Kabeel A. E., Abdelgaied M., Goel V.
SOLAR ENERGY, cilt.237, ss.377-413, 2022 (SCI-Expanded)
- XXII. **A novel latent heat storage unit by introducing jet breakup of phase change material**
Tian Y., Zheng M., Fan D., Zhang Y., Zhao J., Jin G., Wu W., CÜCE E., Guo S.
JOURNAL OF ENERGY STORAGE, cilt.49, 2022 (SCI-Expanded)
- XXIII. **Floating PVs in Terms of Power Generation, Environmental Aspects, Market Potential, and Challenges**
CÜCE E., MERT CÜCE A. P., Saboor S., Ghosh A., Sheikhejad Y.

- SUSTAINABILITY, cilt.14, sa.5, 2022 (SCI-Expanded)
- XXIV. **Assessment of the Thermo-Hydraulic Efficiency of an Indoor-Designed Jet Impingement Solar Thermal Collector Roughened with Single Discrete Arc-Shaped Ribs**
Kumar R., CÜCE E., Kumar S., Thapa S., Gupta P., Goel B., Saleel C. A., Shaik S.
SUSTAINABILITY, cilt.14, sa.6, 2022 (SCI-Expanded)
- XXV. **Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances**
CÜCE E., MERT CÜCE A. P., Carlucci S., Sen H., Sudhakar K., Hasanuzzaman M., Daneshazarian R.
SUSTAINABILITY, cilt.14, sa.3, 2022 (SCI-Expanded)
- XXVI. **Performance assessment of solar chimney power plants with natural thermal energy storage materials on ground: CFD analysis with experimental validation**
Cüce E., Saxena A., Mert Cüce A. P., Sen H., Eroğlu H., Selvanathan S. P., Sudhakar K., Hasanuzzaman M.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.17, ss.752-759, 2022 (SCI-Expanded)
- XXVII. **The influence of exhaust gas recirculation on the characteristics of compression ignition engines powered by tamanu methyl ester**
Senthilkumar P. B., Parthasarathy M., Afzal A., Saleel C. A., CÜCE E., Saboor S., Gera T.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.17, ss.856-869, 2022 (SCI-Expanded)
- XXVIII. **Applications of solar PV tree systems with different design aspects and performance assessment**
MERT CÜCE A. P., Saxena A., CÜCE E., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.17, ss.266-278, 2022 (SCI-Expanded)
- XXIX. **A comprehensive review on recent advancements in cooling of solar photovoltaic systems using phase change materials**
Sheik M. A., Aravindan M. K., CÜCE E., Dasore A., Rajak U., Shaik S., Manokar A. M., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.17, ss.768-783, 2022 (SCI-Expanded)
- XXX. **TiO₂ nano-coated thin film PV glazing with superior thermal resistance, self-cleaning, electricity generation and adaptive optical control**
CÜCE E., MERT CÜCE A. P., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.17, ss.130-139, 2022 (SCI-Expanded)
- XXXI. **Performance analysis of a novel solar desalination system - Part 2: The unit with sensible energy storage with thermal insulation and cooling system**
MERT CÜCE A. P., CÜCE E., Tonyali A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.48, 2021 (SCI-Expanded)
- XXXII. **Harmonic problems in renewable and sustainable energy systems: A comprehensive review**
EROĞLU H., CÜCE E., MERT CÜCE A. P., GÜL F., İSKENDEROĞLU A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.48, 2021 (SCI-Expanded)
- XXXIII. **Performance assessment of solar chimney power plants with the impacts of divergent and convergent chimney geometry**
CÜCE E., Saxena A., MERT CÜCE A. P., Sen H., Guo S., Sudhakar K.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.16, sa.3, ss.704-714, 2021 (SCI-Expanded)
- XXXIV. **Thin film coated windows towards low/zero carbon buildings: Adaptive control of solar, thermal, and optical parameters**
CÜCE E., MERT CÜCE A. P., Riffat S.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.46, 2021 (SCI-Expanded)
- XXXV. **Energy analysis of utility-scale PV plant in the rain-dominated tropical monsoon climates**
Gopi A., Sudhakar K., Ngui W. K., Kirpichnikova I. M., CÜCE E.
CASE STUDIES IN THERMAL ENGINEERING, cilt.26, 2021 (SCI-Expanded)
- XXXVI. **Determining Optimum Tilt Angle for 1 MW Photovoltaic System at Sukkur, Pakistan**
Memon Q. A., Rahimoon A. Q., Ali K., Shaikh M. F., Shaikh S. A., CÜCE E.
INTERNATIONAL JOURNAL OF PHOTOENERGY, cilt.2021, 2021 (SCI-Expanded)
- XXXVII. **Impacts of Ground Slope on Main Performance Figures of Solar Chimney Power Plants: A Comprehensive CFD Research with Experimental Validation**
CÜCE E., MERT CÜCE A. P., Sen H., Sudhakar K., Berardi U., SERENCAM U.

INTERNATIONAL JOURNAL OF PHOTOENERGY, cilt.2021, 2021 (SCI-Expanded)

- XXXVIII. **Hybrid Floating Solar Plant Designs: A Review**
Solomin E., Sirotkin E., CÜCE E., Selvanathan S. P., Kumarasamy S.
ENERGIES, cilt.14, sa.10, 2021 (SCI-Expanded)
- XXXIX. **Design and thermal performance investigation of a box cooker with flexible solar collector tubes: An experimental research**
Saxena A., Cuce E., Tiwari G. N., Kumar A.
ENERGY, cilt.206, 2020 (SCI-Expanded)
- XL. **Thermal performance evaluation of a solar air heater integrated with helical tubes carrying phase change material**
Saxena A., Agarwal N., Cuce E.
JOURNAL OF ENERGY STORAGE, cilt.30, 2020 (SCI-Expanded)
- XLI. **Enhanced performance figures of solar cookers through latent heat storage and low-cost booster reflectors**
Cuce P. M., Kolaylı S., Cuce E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.15, sa.3, ss.427-433, 2020 (SCI-Expanded)
- XLII. **Improving thermal performance of thermoelectric coolers (TECs) through a nanofluid driven water to air heat exchanger design: An experimental research**
Cuce E., Guclu T., Cuce P. M.
ENERGY CONVERSION AND MANAGEMENT, cilt.214, 2020 (SCI-Expanded)
- XLIII. **On the Use of Nanofluids in Solar Energy Applications**
Cuce E., Cuce P. M., Guclu T., Besir A. B.
JOURNAL OF THERMAL SCIENCE, cilt.29, sa.3, ss.513-534, 2020 (SCI-Expanded)
- XLIV. **Numerical performance modelling of solar chimney power plants: Influence of chimney height for a pilot plant in Manzanares, Spain**
CÜCE E., SEN H., CUCU P. M.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.39, 2020 (SCI-Expanded)
- XLV. **Performance analysis of a novel solar desalination system - Part 1: The unit with sensible energy storage and booster reflector without thermal insulation and cooling system**
CÜCE E., CUCU P. M., SAXENA A., GÜÇLÜ T., BESIR A. B.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.37, 2020 (SCI-Expanded)
- XLVI. **Heat insulative photovoltaic glass: Optical, acoustic, thermal and electricity production performance**
CÜCE E.
Nigde Üniversitesi Mühendislik Bilimleri Dergisi, cilt.9, sa.1, ss.494-503, 2020 (SSCI)
- XLVII. **Sustainable ventilation strategies in buildings: CFD research**
CÜCE E., Sher F., Sadiq H., Cuce P. M., GÜÇLÜ T., BESIR A. B.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.36, 2019 (SCI-Expanded)
- XLVIII. **Optimised performance of a thermally resistive PV glazing technology: An experimental validation**
CÜCE E., CUCU P. M.
ENERGY REPORTS, cilt.5, ss.1185-1195, 2019 (SCI-Expanded)
- XLIX. **Thermoelectric Coolers (TECs): From Theory to Practice**
Guclu T., Cuce E.
JOURNAL OF ELECTRONIC MATERIALS, cilt.48, sa.1, ss.211-230, 2019 (SCI-Expanded)
- L. **Improving thermal power of a cylindrical solar cooker via novel micro/nano porous absorbers: A thermodynamic analysis with experimental validation**
Cuce E.
SOLAR ENERGY, cilt.176, ss.211-219, 2018 (SCI-Expanded)
- LI. **A novel method based on thermal conductivity for material identification in scrap industry: An experimental validation**
Cuce E., Cuce P. M., Guclu T., Besir A., Gokce E., Serencam U.
MEASUREMENT, cilt.127, ss.379-389, 2018 (SCI-Expanded)

- LII. **Accurate and reliable U-value assessment of argon-filled double glazed windows: A numerical and experimental investigation**
Cuce E.
ENERGY AND BUILDINGS, cilt.171, ss.100-106, 2018 (SCI-Expanded)
- LIII. **Green roofs and facades: A comprehensive review**
Besir A. B., Cuce E.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.82, ss.915-939, 2018 (SCI-Expanded)
- LIV. **Concentrating photovoltaic thermal (CPVT) collectors and systems: Theory, performance assessment and applications**
DANESHAZARIAN R., Cuce E., Cuce P. M., Sher F.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.81, ss.473-492, 2018 (SCI-Expanded)
- LV. **Toward cost-effective and energy-efficient heat recovery systems in buildings: Thermal performance monitoring**
Cuce P. M., Cuce E.
ENERGY, cilt.137, ss.487-494, 2017 (SCI-Expanded)
- LVI. **An accurate model for photovoltaic (PV) modules to determine electrical characteristics and thermodynamic performance parameters**
Cuce E., Cuce P. M., Karakas I. H., BALI T.
ENERGY CONVERSION AND MANAGEMENT, cilt.146, ss.205-216, 2017 (SCI-Expanded)
- LVII. **A smart building material for low/zero carbon applications: heat insulation solar glass-characteristic results from laboratory and in situ tests**
Cuce E., Riffat S. B.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.12, sa.2, ss.126-135, 2017 (SCI-Expanded)
- LVIII. **Thermal regulation impact of green walls: An experimental and numerical investigation**
Cuce E.
APPLIED ENERGY, cilt.194, ss.247-254, 2017 (SCI-Expanded)
- LIX. **Solar Pond Window Technology for Energy-Efficient Retrofitting of Buildings: An Experimental and Numerical Investigation**
Cuce E., Cuce P. M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.42, sa.5, ss.1909-1916, 2017 (SCI-Expanded)
- LX. **Role of airtightness in energy loss from windows: Experimental results from in-situ tests**
Cuce E.
ENERGY AND BUILDINGS, cilt.139, ss.449-455, 2017 (SCI-Expanded)
- LXI. **Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule size**
MORETTI E., MERLI F., CÜCE E., BURATTI C.
ENERGY, cilt.111, ss.472-480, 2017 (SCI-Expanded)
- LXII. **Experimental and numerical investigation of a novel energy-efficient vacuum glazing technology for low-carbon buildings**
Cuce E.
INDOOR AND BUILT ENVIRONMENT, cilt.26, sa.1, ss.44-59, 2017 (SCI-Expanded)
- LXIII. **Renewable and sustainable energy saving strategies for greenhouse systems: A comprehensive review**
Cuce E., Harjunowibowo D., Cuce P. M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.64, ss.34-59, 2016 (SCI-Expanded)
- LXIV. **A comprehensive assessment of sectoral energy consumption in the UK: past, present and future**
Cuce E., Riffat S. B.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.11, sa.3, ss.424-430, 2016 (SCI-Expanded)
- LXV. **Hava sızdırmazlığının konvansiyonel pencerelerin ortalama ısı yalıtım performansındaki rolü**
CÜCE E.
Dicle Üniversitesi Mühendislik Fakültesi, cilt.8, sa.1, ss.159-174, 2016 (SCI-Expanded)

- LXVI. **Toward multi-functional PV glazing technologies in low/zero carbon buildings: Heat insulation solar glass - Latest developments and future prospects**
Cuce E.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.60, ss.1286-1301, 2016 (SCI-Expanded)
- LXVII. **Novel glazing technologies to mitigate energy consumption in low-carbon buildings: a comparative experimental investigation**
Cuce E., Cuce P. M., Riffat S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.40, sa.4, ss.537-549, 2016 (SCI-Expanded)
- LXVIII. **The impact of internal aerogel retrofitting on the thermal bridges of residential buildings: An experimental and statistical research**
Cuce E., Cuce P. M.
ENERGY AND BUILDINGS, cilt.116, ss.449-454, 2016 (SCI-Expanded)
- LXIX. **Energy saving potential of heat insulation solar glass: Key results from laboratory and in-situ testing**
Cuce E., Cuce P. M., Young C.
ENERGY, cilt.97, ss.369-380, 2016 (SCI-Expanded)
- LXX. **Vacuum glazing for highly insulating windows: Recent developments and future prospects**
Cuce E., Cuce P. M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.54, ss.1345-1357, 2016 (SCI-Expanded)
- LXXI. **A novel roof type heat recovery panel for low-carbon buildings: An experimental investigation**
Cuce P. M., Cuce E., Riffat S.
ENERGY AND BUILDINGS, cilt.113, ss.133-138, 2016 (SCI-Expanded)
- LXXII. **Theoretical investigation of hot box solar cookers having conventional and finned absorber plates**
Cuce E., Cuce P. M.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.10, sa.3, ss.238-245, 2015 (SCI-Expanded)
- LXXIII. **Aerogel-Assisted Support Pillars for Thermal Performance Enhancement of Vacuum Glazing: A CFD Research for a Commercial Product**
Cuce E., Riffat S. B.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.40, sa.8, ss.2233-2238, 2015 (SCI-Expanded)
- LXXIV. **Thermal insulation, power generation, lighting and energy saving performance of heat insulation solar glass as a curtain wall application in Taiwan: A comparative experimental study**
Cuce E., Riffat S. B., Young C.
ENERGY CONVERSION AND MANAGEMENT, cilt.96, ss.31-38, 2015 (SCI-Expanded)
- LXXV. **A successful application of homotopy perturbation method for efficiency and effectiveness assessment of longitudinal porous fins**
Cuce E., Cuce P. M.
ENERGY CONVERSION AND MANAGEMENT, cilt.93, ss.92-99, 2015 (SCI-Expanded)
- LXXVI. **A state-of-the-art review on innovative glazing technologies**
Cuce E., Riffat S. B.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.41, ss.695-714, 2015 (SCI-Expanded)
- LXXVII. **Thermal performance investigation of heat insulation solar glass: A comparative experimental study**
Cuce E., Young C., Riffat S. B.
ENERGY AND BUILDINGS, cilt.86, ss.595-600, 2015 (SCI-Expanded)
- LXXVIII. **Vacuum tube window technology for highly insulating building fabric: An experimental and numerical investigation**
Cuce E., Riffat S. B.
VACUUM, cilt.111, ss.83-91, 2015 (SCI-Expanded)
- LXXIX. **Performance investigation of heat insulation solar glass for low-carbon buildings**
Cuce E., Young C., Riffat S. B.
ENERGY CONVERSION AND MANAGEMENT, cilt.88, ss.834-841, 2014 (SCI-Expanded)
- LXXX. **Tilt Angle Optimization and Passive Cooling of Building-Integrated Photovoltaics (BIPVs) for Better Electrical Performance**

- Cuce E., Cuce P. M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.39, sa.11, ss.8199-8207, 2014 (SCI-Expanded)
- LXXXI. **Optimizing insulation thickness and analysing environmental impacts of aerogel-based thermal superinsulation in buildings**
Cuce E., Cuce P. M., Wood C. J., Riffat S. B.
ENERGY AND BUILDINGS, cilt.77, ss.28-39, 2014 (SCI-Expanded)
- LXXXII. **Toward aerogel based thermal superinsulation in buildings: A comprehensive review**
Cuce E., Cuce P. M., Wood C. J., Riffat S. B.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.34, ss.273-299, 2014 (SCI-Expanded)
- LXXXIII. **An experimental analysis of illumination intensity and temperature dependency of photovoltaic cell parameters**
Cuce E., Cuce P. M., BALI T.
APPLIED ENERGY, cilt.111, ss.374-382, 2013 (SCI-Expanded)
- LXXXIV. **Comments on "Analytical expression for electrical efficiency of PV/T hybrid air collector" by S. Dubey, G.S. Sandhu, and G.N. Tiwari**
CÜCE E., CÜCE P. M.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.36, sa.4, ss.206-208, 2013 (SCI-Expanded)
- LXXXV. **Homotopy perturbation method for temperature distribution, fin efficiency and fin effectiveness of convective straight fins with temperature-dependent thermal conductivity**
Cuce E., Cuce P. M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, cilt.227, sa.8, ss.1754-1760, 2013 (SCI-Expanded)
- LXXXVI. **A comprehensive review on solar cookers**
Cuce E., Cuce P. M.
APPLIED ENERGY, cilt.102, ss.1399-1421, 2013 (SCI-Expanded)
- LXXXVII. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
Cuce E., Cuce P. M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, cilt.23, sa.7, ss.1169-1178, 2013 (SCI-Expanded)
- LXXXVIII. **A novel model of photovoltaic modules for parameter estimation and thermodynamic assessment**
Mert Cüce A. P., Cüce E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.7, sa.2, ss.159-165, 2012 (SCI-Expanded)
- LXXXIX. **Effects of passive cooling on performance of silicon photovoltaic cells**
Cüce E., Bali T., Seküçoğlu S. A.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.6, sa.4, ss.299-308, 2011 (SCI-Expanded)
- XC. **A review on hybrid photovoltaic/thermal collectors and systems**
Cüce E., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.6, sa.3, ss.212-241, 2011 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **New approaches in solar chimney power plants: Recent applications of hybrid power production**
ŞEN H., MERT CÜCE A. P., CÜCE E.
Recep Tayyip Erdogan Üniversitesi, 2022 (Hakemli Dergi)
- II. **The effect of nanofluid usage on electricity consumption in thermoelectric refrigeration application: An experimental study**
MERT CÜCE A. P., GÜÇLÜ T., CÜCE E.
Gazi Mühendislik Bilimleri Dergisi, cilt.8, sa.2, ss.228-236, 2022 (Hakemli Dergi)
- III. **Impact of Tower Diameter on Power Output in Solar Chimney Power Plants**

MERT CÜCE A. P., ŞEN H., CÜCE E.

Gazi Mühendislik Bilimleri Dergisi, cilt.7, 2021 (Hakemli Dergi)

- IV. **Toplayıcı Yarıçapı ve Yüksekliğinin Güneş Bacası Güç Santrallerinin Performans Parametreleri Üzerine Etkileri: Manzanares, İspanya için Bir Vaka Çalışması**
ŞEN H., MERT CÜCE A. P., CÜCE E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, 2021 (Hakemli Dergi)
- V. **A perspective of COVID 19 impact on global economy, energy and environment**
Priya S. S., Cüce E., Sudhakar K.
INTERNATIONAL JOURNAL OF SUSTAINABLE ENGINEERING, cilt.14, sa.6, ss.1290-1305, 2021 (ESCI)
- VI. **Energy Saving Aspects of Green Facades: Current Applications and Challenges**
MERT CÜCE A. P., CÜCE E., GÜÇLÜ T., DEMİRCİ V.
Green Building & Construction Economics, 2021 (Hakemli Dergi)
- VII. **Thermal behavior of human clothing in real-life conditions and its reflections on thermal comfort**
Mert Cüce A. P., Cüce E., Sen H., Priya S. S., Sukumaran S.
World Journal of Textile Engineering and Technology, cilt.7, ss.25-35, 2021 (Hakemli Dergi)
- VIII. **A systematic review of thermal insulation performance of hollow bricks as a function of hollow geometry**
MERT CÜCE A. P., CÜCE E., Sudhakar K.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, 2021 (ESCI)
- IX. **Improving Electricity Production in Solar Chimney Power Plants with Sloping Ground Design: An Extensive CFD Research**
Mert Cüce A. P., Cüce E., Şen H.
Journal of Solar Energy Research Updates, cilt.7, ss.122-131, 2020 (Hakemli Dergi)
- X. **A thorough performance assessment of solar chimney power plants: Case study for Manzanares**
Cüce E., Mert Cüce A. P., Şen H.
Cleaner Engineering and Technology, cilt.1, ss.1-11, 2020 (Hakemli Dergi)
- XI. **Improving thermal resistance of lightweight concrete hollow bricks: A numerical optimisation research for a typical masonry unit**
CÜCE E., CUCE P. M., BESİR A. B.
Journal of Energy Systems, cilt.4, sa.3, ss.121-144, 2020 (Scopus)
- XII. **GÜNEŞ BACASI GÜÇ SANTRALLERİNDE TOPLAYICI EĞİMİNİN ÇIKIŞ GÜCÜNE VE SİSTEM VERİMİNE ETKİSİ**
CÜCE E.
Uludağ University Journal of The Faculty of Engineering, cilt.25, sa.2, ss.1025-1038, 2020 (Hakemli Dergi)
- XIII. **Analysis of solar PV glare in airport environment: Potential solutions**
Sreenath S., Sudhakar K., Yusop A., CÜCE E., Solomin E.
Results in Engineering, cilt.5, 2020 (ESCI)
- XIV. **Improving thermal resistance of lightweight concrete hollow bricks: A numerical optimisation research for a typical masonry unit**
CÜCE E., MERT CÜCE A. P., BEŞİR A. B.
Journal of Energy Systems, cilt.4, sa.3, ss.121-144, 2020 (Scopus)
- XV. **Enerji verimli binalar için sürdürülebilir ve çevre dostu pencere ve cam teknolojileri: Son gelişmeler ve uygulamalar**
Cuce P. M., Guclu T., Besir A. B., CÜCE E.
ULUDAG UNIVERSITY JOURNAL OF THE FACULTY OF ENGINEERING, cilt.24, sa.3, ss.503-522, 2019 (Hakemli Dergi)
- XVI. **Performance assessment of solar chimneys: Part 2 – Impacts of slenderness value and collector slope on power output**
CÜCE E., Cuce P. M.
ENERGY RESEARCH JOURNAL, cilt.10, ss.20-26, 2019 (Hakemli Dergi)
- XVII. **Performance assessment of solar chimneys: Part I – Impact of chimney height on power output**

- CÜCE E., CUCE P. M.
ENERGY RESEARCH JOURNAL, cilt.10, ss.11-19, 2019 (Hakemli Dergi)
- XVIII. **Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations**
Cuce E., Oztekin E. K., Cuce P. M.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.40, sa.4, ss.406-412, 2019 (ESCI)
- XIX. **Impacts of edge seal material on thermal insulation performance of athermally resistive photovoltaic glazing: CFD research with experimental validation**
CÜCE E.
Journal of Energy Systems, cilt.3, sa.1, ss.26-35, 2019 (Scopus)
- XX. **Strategies for ideal indoor environments towards low/zero carbon buildings through a biomimetic approach**
Cuce E., Nachan Z., Cuce P. M., Sher F., NEIGHBOUR G. B.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.40, sa.1, ss.86-95, 2019 (ESCI)
- XXI. **Performance Assessment of Solar Chimneys: Part I – Impact of Chimney Height on Power Output**
CÜCE E., MERT CÜCE A. P.
Energy Research Journal, cilt.10, sa.1, ss.11-19, 2019 (Hakemli Dergi)
- XXII. **Performance Assessment of Solar Chimneys: Part 2 – Impacts of Slenderness Value and Collector Slope on Power Output**
CÜCE E., MERT CÜCE A. P.
Energy Research Journal, cilt.10, sa.1, ss.20-26, 2019 (Hakemli Dergi)
- XXIII. **Smart Retrofit Solutions of Buildings toward a Low Carbon World**
CÜCE E., MERT CÜCE P.
Energy Research Journal, cilt.9, sa.1, ss.77-86, 2018 (Hakemli Dergi)
- XXIV. **Impact of humidity on current parameters of solar cells**
CÜCE E., MERT CÜCE P., BALI T.
Journal of Energy Systems, cilt.2, sa.3, ss.84-96, 2018 (Scopus)
- XXV. **Hybrid Photovoltaic/Thermal (HPV/T) Systems: From Theory to Applications**
CÜCE E., ÖZTEKİN E. K., MERT CÜCE P.
Energy Research Journal, cilt.9, sa.1, ss.1-71, 2018 (Hakemli Dergi)
- XXVI. **An Overview of Concentrating Photovoltaic Thermal (CPVT) Collectors**
DANESHAZARIAN R., CÜCE E., MERT CÜCE P.
Energy Research Journal, cilt.8, sa.1, ss.11-21, 2017 (Hakemli Dergi)
- XXVII. **An overview of domestic energy consumption in the UK: past, present and future**
Cuce E.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.37, sa.4, ss.428-435, 2016 (ESCI)
- XXVIII. **Energetic and exergetic performance assessment of solar cookers with different geometrical designs**
Cuce E., Cuce P. M.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.36, sa.2, ss.62-69, 2015 (ESCI)
- XXIX. **Comments on "Analytical expression for electrical efficiency of PV/T hybrid air collector" by S. Dubey, G.S. Sandhu, and G.N. Tiwari**
Cuce P. M., Cuce E.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.36, sa.4, ss.206-208, 2015 (ESCI)
- XXX. **Optimization of configurations to enhance heat transfer from a longitudinal fin exposed to natural convection and radiation**
Cuce P. M., CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.9, sa.4, ss.305-310, 2014 (ESCI)
- XXXI. **Toward energy-efficient window technologies in low carbon buildings: CFD simulation of novel vacuum tube window**
CÜCE E., RIFFAT S.
WORLD SOCIETY OF SUSTAINABLE ENERGY TECHNOLOGIES NEWSLETTER, cilt.6, sa.1, ss.6, 2014 (Hakemli Dergi)
- XXXII. **Homotopy perturbation method for temperature distribution, fin efficiency and fin effectiveness of**

convective straight fins

Cuce P. M., Cuce E., AYGÜN C.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.9, sa.1, ss.80-84, 2014 (ESCI)

XXXIII. **Improving thermodynamic performance parameters of silicon photovoltaic cells via air cooling**

CÜCE E., Cuce P. M.

INTERNATIONAL JOURNAL OF AMBIENT ENERGY, cilt.35, sa.4, ss.193-199, 2014 (ESCI)

XXXIV. **He's homotopy perturbation method for prey and predator problem considering real life situations**

CÜCE E., MERT CÜCE P.

Far East Journal of Applied Mathematics, cilt.76, sa.1, ss.13-24, 2013 (Hakemli Dergi)

XXXV. **A novel model of photovoltaic modules for parameter estimation and thermodynamic assessment**

Cuce P. M., Cuce E.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.7, sa.2, ss.159-165, 2012 (ESCI)

XXXVI. **Effects of passive cooling on performance of silicon photovoltaic cells**

Cuce E., BALI T., Sekucoglu S. A.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.6, sa.4, ss.299-308, 2011 (ESCI)

XXXVII. **A review on hybrid photovoltaic/thermal collectors and systems**

Riffat S. B., Cuce E.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, cilt.6, sa.3, ss.212-241, 2011 (ESCI)

Kitap & Kitap Bölümleri

I. **Methods of fabrication of bionanocomposites**

MERT CÜCE A. P., CÜCE E., GÜÇLÜ T.

Bionanocomposites for Food Packaging Applications, Shakeel Ahmed, Editör, Elsevier, ss.7-29, 2022

II. **Thermal properties of aerogels: From theory to practice**

CÜCE E., MERT CÜCE A. P., GUCLU T., BESIR A. B.

Translucent silica aerogel: Properties, preparation and applications, Cinzia Buratti, Editör, Nova Science Publishers, Italy, ss.1-306, 2019

III. **Greenery systems toward low/zero carbon buildings**

CÜCE E., BESIR A. B., CÜCE P. M.

Low Carbon Transition - Technical, Economic and Policy Assessment, Dr. Valter Silva, Editör, Intechopen, Rijeka, ss.29-50, 2018

IV. **Low/Zero-Carbon Buildings for a Sustainable Future**

CÜCE E., Beşir A. B., MERT CÜCE A. P.

Low Carbon Transition, Valter Silva, Editör, Intech Open University Press, London, ss.29-50, 2018

V. **Low/Zero-Carbon Buildings for a Sustainable Future**

CÜCE E., AHMET B B., CUCE P. M.

Low Carbon Technology and Economy, Dr. Valter Silva, Editör, InTechOpen, ss.29-50, 2018

VI. **Toward thermal superinsulation technologies in buildings: Latest developments in glazing and building fabric**

CÜCE E.

Lap Lambert Academic Publishing, Saarbrücken, Germany, 2015

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Dünden bugüne güneş bacası güç santralleri: Sistem güç çıkışına etki eden performans parametreleri**

CÜCE E., Sen H.

Avrasya 7. Uygulamalı Bilimler Kongresi, Trabzon, Türkiye, 21 - 22 Ağustos 2020, ss.256-262

II. **A review on liquid desiccant based dehumidification systems**

MERT CÜCE A. P., ÖZTÜRK K., CÜCE E.

2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Türkiye, 27 - 29 Aralık 2019

- III. **A review on liquid desiccant based dehumidification systems**
Cuce P. M., Ozturk K., CÜCE E.
İkinci Uluslararası Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Türkiye, 27 - 29 Aralık 2019, ss.909-922
- IV. **Thermal performance of a novel thermoelectric refrigerator with a water to air heat exchanger and SiO₂, TiO₂ and Al₂O₃ nanofluids**
MERT CÜCE A. P., RIFFAT S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala-Lumpur, Malezya, 20 - 22 Ağustos 2019
- V. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**
MERT CÜCE A. P., KOLAYLI S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala-Lumpur, Malezya, 20 - 22 Ağustos 2019
- VI. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**
Cuce P. M., Kolayli S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala Lumpur, Malezya, 20 - 22 Ağustos 2019, ss.1-9
- VII. **Thermal performance of a novel thermoelectric refrigerator with a water to air heat exchanger and SiO₂, TiO₂ and Al₂O₃ nanofluids**
Cuce P. M., Riffat S. B., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala Lumpur, Malezya, 20 - 22 Ağustos 2019, ss.1-9
- VIII. **Glazed areas as the most sensitive part of building envelope in terms of thermal insulation performance: Current status and future prospects**
CÜCE E.
International Conference on Materials Science, Mechanical and Automotive Engineering and Technology in Cappadocia/TURKEY, Nevşehir, Türkiye, 21 - 23 Haziran 2019, ss.1-6
- IX. **UVC/UVA absorption, noise reduction, thermal insulation, visible light and solar radiation control of PV glazing systems: An experimental research**
CÜCE E.
International Conference on Materials Science, Mechanical and Automotive Engineering and Technology in Cappadocia/TURKEY, Nevşehir, Türkiye, 21 - 23 Haziran 2019, ss.1-6
- X. **Global necessity to nearly zero-energy buildings (nZEB)**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XI. **Thermoelectric refrigeration systems: From theory to applications**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XII. **U-value analysis of argon filled double glazed windows**
CÜCE E., MERT CÜCE P., BEŞİR A. B., GÜÇLÜ T.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XIII. **Role of greenery systems in the U-value of building envelopes**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XIV. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., MERT CÜCE P., GÜÇLÜ T., BEŞİR A. B.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XV. **A new technique for sorting of metals in scrap industry.**

- MERT CÜCE P., CÜCE E., GÜÇLÜ T., BEŞİR A. B., Gökçe E.
International Congress on Engineering and Life Science, 26 - 29 Nisan 2018
- XVI. **Optical performance parameters of thermally resistive PV glazing (TR-PVG)**
CÜCE E., CUCE P. M.
International Conference on Photonics Research, Antalya, Türkiye, 8 - 12 Ekim 2018, ss.1
- XVII. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., CUCE P. M., GUCLU T., BESIR A. B.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.790-793
- XVIII. **Thermoelectric refrigeration systems: From theory to applications**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.635
- XIX. **Role of greenery systems in the U-value of building envelopes**
BESIR A. B., GUCLU T., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.634
- XX. **A new technique for sorting of metals in scrap industry. International Congress on Engineering and Life Science**
MERT CÜCE A. P., CÜCE E., GÜÇLÜ T., BEŞİR A. B., GÖKÇE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.1
- XXI. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., CUCE P. M., GUCLU T., BESIR A. B.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.655
- XXII. **U-value analysis of argon filled double glazed windows**
CÜCE E., CUCE P. M., BESIR A. B., GUCLU T.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.633
- XXIII. **Role of greenery systems in the U-value of building envelopes**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE A. P., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.1
- XXIV. **Thermoelectric refrigeration systems: From theory to applications**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE A. P., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.1
- XXV. **A new technique for sorting of metals in scrap industry**
CUCE P. M., CÜCE E., GUCLU T., BESIR A. B., GOKCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.568
- XXVI. **Global necessity to nearly zero-energy buildings (nZEB)**
BESIR A. B., GUCLU T., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Türkiye, 26 - 29 Nisan 2018, ss.661
- XXVII. **Thermal performance assessment of thermoelectric coolers for micro space cooling**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 Aralık 2017
- XXVIII. **The comparison of greenery systems in terms of energy saving**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 Aralık 2017
- XXIX. **The comparison of greenery systems in terms of energy saving**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 Aralık 2017
- XXX. **Thermal performance assessment of thermoelectric coolers for micro space cooling**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, Konya, Türkiye, 7 - 09 Aralık 2017
- XXXI. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
OZTEKIN E. K., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 Aralık 2017, ss.772-774

- XXXII. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
ÖZTEKİN E. K., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, Konya, Türkiye, 7 - 09 Aralık 2017
- XXXIII. **Thermoelectric coolers (TECs) for potential air-conditioning applications in buildings**
GUCLU T., CUCE P. M., BESIR A. B., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Türkiye, 2 - 04 Kasım 2017, ss.1
- XXXIV. **Greenery systems as an energy-efficient retrofit solution toward 2030 and 2050 zero-carbon building targets**
BESIR A. B., CUCE P. M., GUCLU T., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Türkiye, 2 - 04 Kasım 2017, ss.143
- XXXV. **Material selection for an optimized fin geometry through longitudinal perforations by using analytical hierarchy process**
OZTEKIN E. K., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Türkiye, 2 - 04 Kasım 2017, ss.1
- XXXVI. **Regional and seasonal aspects of energy saving in buildings with green roofs**
BESIR A. B., CÜCE E., GUCLU T.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.1469
- XXXVII. **Smart solutions in heating, ventilation and air-conditioning (HVAC) systems toward low/zero carbon buildings**
CUCE P. M., CÜCE E.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.284
- XXXVIII. **Reliability of single-diode mathematical models in parameter extraction of PV cells: An experimental and numerical investigation**
CUCE P. M., CÜCE E.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.1467
- XXXIX. **Performance assessment of hybrid photovoltaic thermal (PV/T) collectors and systems: A review**
OZTEKIN E. K., CÜCE E.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.625-631
- XL. **A systematic overview of thermoelectric coolers (TECs)**
GUCLU T., CÜCE E., BESIR A. B.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.1470
- XLI. **Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations**
OZTEKIN E. K., CÜCE E.
International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.745-749
- XLII. **Thermal and acoustic properties of aerogels: preliminary investigation of the influence of granule size**
MORETTI E., MERLI F., Cuce E., BURATTI C.
8th International Conference on Sustainability in Energy and Buildings (SEB), Turin, İtalya, 11 - 13 Eylül 2016, cilt.111, ss.482-490
- XLIII. **Buildings of future Smart low cost and energy efficient solutions**
CÜCE E., CUCE P. M.
International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering (ICIMECE) Annual Conference on Industrial and System Engineering (ACISE), 6-7 October 2016, Yogyakarta, Indonesia, 6 - 07 Ekim 2016
- XLIV. **Buildings of future: Smart, low-cost and energy-efficient solutions**
CÜCE E., CUCE P. M.
Second International Conference on Industrial, Mechanical, Electrical and Chemical Engineering and Annual Conference on Industrial and System Engineering, Yogyakarta, Endonezya, 6 - 07 Ekim 2016, ss.1

- XLV. Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule size**
BURATTI C., CÜCE E., MERLI F., MORETTI E.
Eighth International Conference on Sustainability in Energy and Buildings, Turin, İtalya, 11 - 13 Eylül 2016, ss.482-490
- XLVI. Initial experimental investigation of environmental performance of greenhouse under innovative energy saving and climate control systems**
DING Y., CÜCE E., RIFFAT S., LU C.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.1-7
- XLVII. The role of plants in temperature regulation of external walls: An experimental and numerical research**
CÜCE E., CÜCE P. M., SHER F., BALI T., ALTIN I.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.323
- XLVIII. Concentrated Photovoltaic Thermal (CPVT) solar collector systems: State-of-the-art, fundamental and design key-factors**
DANESHAZARIAN R., CÜCE E., CÜCE P. M.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.158
- XLIX. In-situ thermal performance monitoring of a novel domestic heat recovery unit**
CÜCE P. M., CÜCE E., BAYRAKTAR K. G., RIFFAT S.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.152
- L. Cost-effective and energy-efficient strategies for greenhouse systems: A comprehensive review**
CÜCE E., CÜCE P. M.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.1
- LI. Recent passive technologies of greenhouse systems: A review**
HARJUNOWIBOWO D., RIFFAT S., CÜCE E., OMER S., DING Y.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.1-10
- LII. Recent developments on multi-functional PV glazing technologies: Heat insulation solar glass**
CÜCE E.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapur, 19 - 22 Temmuz 2016, ss.1
- LIII. Cooling applications with renewable energy powered resorption systems Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
PASTAKKAYA B., CÜCE E., CUCE P. M.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015, cilt.2, ss.58-64
- LIV. Techno economic assessment of heat insulation solar glass HISG for different climatic conditions A case study for Beijing and London Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
CÜCE E., HAN D., SAFFA R.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LV. Theoretical investigation of soil based thermal energy storage system for greenhouses Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
CÜCE E., DING Y., SAFFA R., LU C.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LVI. Cooling Applications with Renewable Energy Powered Resorption Systems**
PASTAKKAYA B., CÜCE E., MERT CÜCE A. P.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015

- LVII. Lighting performance investigation of heat insulation solar glass HISG for potential utilization in greenhouses as facade material Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
CÜCE E., SAFFA R., CHINHUI Y.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LVIII. Sustainable climate responsive strategies for Mumbai through a Biomimetic approach Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
CÜCE E., HAN D., SAFFA R.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LIX. High Capacity Energy Efficiency Solar Glass Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
CHINHUI Y., SAFFA R., CÜCE E.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LX. Investigation on the performance of air source heat pump system with new environment friendly refrigerants for a low carbon building Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
DING Y., CÜCE E., SAFFA R., CHUNGUI L.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 Ağustos 2015
- LXI. Cooling applications with renewable energy powered resorption systems**
PASTAKKAYA B., CÜCE E., CÜCE P. M.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.362
- LXII. Theoretical investigation of soil-based thermal energy storage system for greenhouses**
CÜCE E., DING Y., RIFFAT S., LU C.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.1-14
- LXIII. Investigation on the performance of air source heat pump system with new environment friendly refrigerants for a low carbon building**
DING Y., CÜCE E., RIFFAT S., LU C.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.1
- LXIV. Sustainable climate responsive strategies for Mumbai through a 'Biomimetic approach'**
CÜCE E., SHAKEEL Z., RIFFAT S.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.1
- LXV. Lighting performance investigation of heat insulation solar glass (HISG) for potential utilization in greenhouses as facade material**
CÜCE E., RIFFAT S., YOUNG C.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.625-633
- LXVI. High Capacity Energy Efficiency Solar Glass**
YOUNG C., RIFFAT S., CÜCE E.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.266-271
- LXVII. Techno-economic assessment of heat insulation solar glass (HISG) for different climatic conditions: A case study for Beijing and London**
CÜCE E., DONG H., RIFFAT S.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.1
- LXVIII. An application of homotopy perturbation method for efficiency and effectiveness assessment of**

longitudinal porous fins

CÜCE E., CÜCE P. M.

Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.361

- LXIX. **Photovoltaic vacuum glazing for low carbon buildings**
ALOTAIBI A., CÜCE E., RIFFAT S.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, Birleşik Krallık, 25 - 27 Ağustos 2015, ss.659-667
- LXX. **An overview of sectoral energy consumption in the UK: past, present and future**
CÜCE E., RIFFAT S.
Thirteenth International Conference on Sustainable Energy Technologies, Geneva, İsviçre, 25 - 28 Ağustos 2014, ss.40127
- LXXI. **Experimental and numerical investigation of a novel energy-efficient window technology for low-carbon buildings: Vacuum tube window**
CÜCE E., RIFFAT S.
Thirteenth International Conference on Sustainable Energy Technologies, Geneva, İsviçre, 25 - 28 Ağustos 2014, ss.40126
- LXXII. **Innovative window technologies for low-carbon buildings**
CÜCE E.
Workshop on novel energy and biotechnology developments in the sustainable built environment, İstanbul, Türkiye, 24 - 27 Mart 2014, ss.1
- LXXIII. **Tilt angle optimization of building-integrated photovoltaics (BIPVs) for cooler operating temperatures**
CÜCE E., CÜCE P. M.
MEGS IV Annual Conference, Public Engagement with Energy, Loughborough, Birleşik Krallık, 12 - 13 Eylül 2013, ss.1
- LXXIV. **Passive cooling of building-integrated photovoltaics (BIPVs) for better electrical performance**
CÜCE P. M., CÜCE E.
MEGS IV Annual Conference, Public Engagement with Energy, Loughborough, Birleşik Krallık, 12 - 13 Eylül 2013, ss.1
- LXXV. **Optimum insulation thickness of aerogel in buildings**
CÜCE E., CÜCE P. M., WOOD C. J., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, Çin, 26 - 29 Ağustos 2013, ss.1
- LXXVI. **Theoretical investigation of solar powered heat recovery panels in buildings**
CÜCE P. M., CÜCE E., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, Çin, 26 - 29 Ağustos 2013, ss.1
- LXXVII. **Second law analysis of solar powered heat recovery panels in buildings**
CÜCE P. M., CÜCE E., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, Çin, 26 - 29 Ağustos 2013, ss.1
- LXXVIII. **Aerogel with its outstanding features and building applications**
RIFFAT S., CÜCE E.
Eleventh International Conference on Sustainable Energy Technologies, Vancouver, Kanada, 2 - 05 Eylül 2012, ss.1
- LXXIX. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
MERT CÜCE P., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, 4 Eylül - 07 Haziran 2011
- LXXX. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
CÜCE P. M., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, İstanbul, Türkiye, 4 - 07 Eylül 2011, ss.1
- LXXXI. **A review on performance analysis of photovoltaic/thermal collectors**

- RIFFAT S., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, İstanbul, Türkiye, 4 - 07 Eylül 2011, ss.1
- LXXXII. **Improving performance parameters of silicon solar cells using air cooling**
CÜCE E., BALI T.
Fifth International Ege Energy Symposium and Exhibition, Denizli, Türkiye, 27 - 30 Haziran 2010, ss.1-8
- LXXXIII. **Comparison of energy, power conversion and exergy efficiencies of monocrystalline silicon photovoltaic module at different illumination intensities and cell temperatures**
CÜCE E., BALI T.
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Türkiye, 24 - 27 Haziran 2009, ss.1-19
- LXXXIV. **A comparison of energy and power conversion efficiencies of m-Si and p-Si PV cells in Trabzon**
CÜCE E., BALI T.
Fifth International Advanced Technologies Symposium, Karabük, Türkiye, 13 - 15 Mayıs 2009, ss.1-5
- LXXXV. **Variation of cell parameters of a p-Si PV cell with different solar irradiances and cell temperatures in humid climates**
CÜCE E., BALI T.
Fourth International Exergy, Energy and Environment Symposium, Dubai, Birleşik Arap Emirlikleri, 19 - 23 Nisan 2009, ss.1-6

Desteklenen Projeler

- Kar T., Cüce E., TÜBİTAK Projesi, Co-gasification of hazelnut shell-tea bush / lignite coal mixture and product analysis in fluid bed reactor, 2021 - 2023
- CÜCE E., TÜBİTAK Projesi, Development of a novel, energy-efficient, eco-friendly and multi-functional glazing technology for low/zero carbon buildings: An experimental, numerical and statistical investigation, 2017 - 2019
- CÜCE E., AB Destekli Diğer Projeler, Innovative energy saving and climate control system for greenhouses, 2014 - 2016
- MERT CÜCE A. P., CÜCE E., AB Çerçeve Programları Destekli Proje, HERB – Holistic energy-efficient retrofitting of residential buildings, 2012 - 2016
- MERT CÜCE A. P., CÜCE E., AB Çerçeve Programları Destekli Proje, Development of heat insulation solar glass for low-carbon buildings, 2014 - 2015
- CÜCE E., AB Destekli Diğer Projeler, High performance vacuum window, 2012 - 2014
- CÜCE E., MERT CÜCE A. P., AB Destekli Diğer Projeler, The EoN house retrofit research project, 2012 - 2013
- CÜCE E., Diğer Uluslararası Fon Programları, Thermodynamic analysis of the effectiveness of different types of PV modules for wet conditions, 2008 - 2009

Bilimsel Dergilerdeki Faaliyetler

- APPLIED ENERGY, Editörler Kurulu Üyesi, 2022 - Devam Ediyor
- SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, Özel Sayı Editörü, 2022 - Devam Ediyor
- ENERGY AND BUILDINGS, Editörler Kurulu Üyesi, 2022 - Devam Ediyor
- ENERGY AND BUILDINGS, Özel Sayı Editörü, 2021 - Devam Ediyor
- GAZI JOURNAL OF ENGINEERING SCIENCES, Editörler Kurulu Üyesi, 2021 - Devam Ediyor
- WORLD JOURNAL OF TEXTILE ENGINEERING AND TECHNOLOGY, Editörler Kurulu Üyesi, 2021 - Devam Ediyor
- FUTURE CITIES AND ENVIRONMENT, Editörler Kurulu Üyesi, 2020 - Devam Ediyor
- GREEN BUILDING AND CONSTRUCTION ECONOMICS, Baş Editör, 2020 - Devam Ediyor
- JOURNAL OF SOLAR ENERGY RESEARCH UPDATES, Editörler Kurulu Üyesi, 2020 - Devam Ediyor
- ENERGY RESEARCH JOURNAL, Editör, 2016 - Devam Ediyor

Metrikler

Yayın: 220

Atf (WoS): 3097

Atf (Scopus): 3651

H-İndeks (WoS): 29

H-İndeks (Scopus): 31

Kongre ve Sempozyum Katılımı Faaliyetleri

Renewable Energy Technologies for Sustainable Systems, Davetli Konuşmacı, Velluru, Hindistan, 2023

7th Session of Global Sustainability Lecture Series, Davetli Konuşmacı, Kuala-Lumpur, Malezya, 2022

Third International Conference on Sustainable Energy Solutions for a Better Tomorrow, Davetli Konuşmacı, Chennai, Hindistan, 2022

Recent Advancements in Sustainable Energy Storage and Conversion, Davetli Konuşmacı, Karnataka, Hindistan, 2021

Energy Positive Buildings & Sustainable Transport Workshop organised by University of Exeter, UK and VIT, India,

Davetli Konuşmacı, Exeter, Birleşik Krallık, 2021

Novel Solar Energy Applications for the Built Environment, GIAN Programme Organised in Maulana Azad National

Institute of Technology (MANIT), Bhopal, Davetli Konuşmacı, Bhopal, Hindistan, 2018

International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical

Engineering (ICIMECE) & Annual Conference on Industrial and System Engineering (ACISE), Davetli Konuşmacı,

Yogyakarta, Endonezya, 2016

Burslar

Post-Doctorate Research Fellowship from TUBITAK (The Scientific and Technological Research Council of Turkey) through funding programme 2219/1, 2015, TÜBİTAK, 2015 - 2016

Post-Doctorate Research Fellowship Post in the Institute of Sustainable Energy Technologies, Department of Architecture and Built Environment, Faculty of Engineering, University of Nottingham, Üniversite, 2014 - 2016

Postgraduate Research Scholarship of Turkish Ministry of Education, Doctoral research in Sustainable Energy Technologies at the University of Nottingham, Milli Eğitim Bakanlığı, 2012 - 2015

Ödüller

Cüce E., TÜBA-Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP), Türkiye Bilimler Akademisi, Aralık 2021

CÜCE E., The Scientist of the Year Award - Yılın Bilim İnsanı Ödülü, Bilim Kahramanları Derneği, Nisan 2018

MERT CÜCE A. P., CÜCE E., Hot Paper and Highly Cited Paper Award from Web of Science. Toward aerogel based thermal superinsulation in buildings: A comprehensive review. (%0.1 in the relevant academic field), Thomson Reuters, Aralık 2017

MERT CÜCE A. P., CÜCE E., Highly Cited Paper Award from Web of Science. A state-of-the-art review on innovative glazing technologies. (%1 in the relevant academic field), Thomson Reuters, Aralık 2017

CÜCE E., Scientific Publication Award – First Place. University of Bayburt, 2016, University of Bayburt, Mayıs 2016