

## Assoc. Prof. ERDEM CÜCE

### Personal Information

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### Education Information

Post Doctorate, University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, United Kingdom 2014 - 2016

Doctorate, The University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, United Kingdom 2012 - 2014

Postgraduate, University of London, Birbeck College, London Foundation Campus, Master's Foundation Programme (Mfp) In Engineering, United Kingdom 2011 - 2012

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2006 - 2009

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2002 - 2006

### Foreign Languages

English, C1 Advanced

### Research Areas

Energy, Alternative Energy Resources, Energy storage technologies, Solar energy, Advanced Energy Technologies, Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Thermal Systems, Numerical Analysis

### Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 2021 - Continues

### Academic and Administrative Experience

Head of Department, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 2020 - 2021

### Advising Theses

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

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

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

- I. **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, vol.48, pp.101566, 2021 (Journal Indexed in SCI Expanded)
- II. **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, vol.48, pp.101674, 2021 (Journal Indexed in SCI Expanded)
- III. **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, vol.46, pp.101257, 2021 (Journal Indexed in SCI Expanded)
- IV. **Energy analysis of utility-scale PV plant in the rain-dominated tropical monsoon climates**  
Gopi A., Sudhakar K., Ngui W. K. , Kirpichnikova I., Cüce E.  
CASE STUDIES IN THERMAL ENGINEERING, vol.26, pp.101123, 2021 (Journal Indexed in SCI Expanded)
- V. **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, vol.2021, no.2021, pp.6612222, 2021 (Journal Indexed in SCI Expanded)
- VI. **Hybrid floating solar plant designs: A review**  
Solomin E., Sirotkin E., Cüce E., Priya S. S. , Sudhakar K.  
Energies, vol.14, no.10, pp.2751, 2021 (Journal Indexed in SCI Expanded)
- VII. **Performance assessment of solar chimney power plants with the impacts of divergent and convergent chimney geometry**  
Cüce E., Saxena A., Mert Cüce A. P. , Şen H., Guo S., Kumarasamy S.  
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.16, no.3, pp.704-714, 2021 (Journal Indexed in SCI Expanded)
- VIII. **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, vol.206, 2020 (Journal Indexed in SCI)
- IX. **Enhanced performance figures of solar cookers through latent heat storage and low-cost booster reflectors**  
Mert Cüce A. P. , Kolaylı S., Cüce E.  
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.15, no.3, pp.427-433, 2020 (Journal Indexed in SCI Expanded)
- X. **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, vol.30, 2020 (Journal Indexed in SCI)
- XI. **Enhanced performance figures of solar cookers through latent heat storage and low-cost booster**

## **reflectors**

Cuce P. M. , KOLAYLI S., Cuce E.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.15, no.3, pp.427-433, 2020 (Journal Indexed in SCI)

- XII. **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, vol.214, 2020 (Journal Indexed in SCI)
- XIII. **Numerical performance modelling of solar chimney power plants: Influence of chimney height for a pilot plant in Manzanares, Spain**  
CÜCE E., SEN H., CUCE P. M.  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.39, 2020 (Journal Indexed in SCI)
- XIV. **On the Use of Nanofluids in Solar Energy Applications**  
Cuce E., Cuce P. M. , Guclu T., Besir A. B.  
JOURNAL OF THERMAL SCIENCE, vol.29, no.3, pp.513-534, 2020 (Journal Indexed in SCI)
- XV. **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., Cuce P. M. , SAXENA A., GÜÇLÜ T., BESIR A. B.  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.37, 2020 (Journal Indexed in SCI)
- XVI. **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, vol.36, 2019 (Journal Indexed in SCI)
- XVII. **Optimised performance of a thermally resistive PV glazing technology: An experimental validation**  
CÜCE E., Cuce P. M.  
ENERGY REPORTS, vol.5, pp.1185-1195, 2019 (Journal Indexed in SCI)
- XVIII. **Thermoelectric Coolers (TECs): From Theory to Practice**  
Guclu T., Cuce E.  
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.1, pp.211-230, 2019 (Journal Indexed in SCI)
- XIX. **Improving thermal power of a cylindrical solar cooker via novel micro/nano porous absorbers: A thermodynamic analysis with experimental validation**  
Cuce E.  
SOLAR ENERGY, vol.176, pp.211-219, 2018 (Journal Indexed in SCI)
- XX. **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, vol.127, pp.379-389, 2018 (Journal Indexed in SCI)
- XXI. **Accurate and reliable U-value assessment of argon-filled double glazed windows: A numerical and experimental investigation**  
Cuce E.  
ENERGY AND BUILDINGS, vol.171, pp.100-106, 2018 (Journal Indexed in SCI)
- XXII. **Green roofs and facades: A comprehensive review**  
Besir A. B. , Cuce E.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.82, pp.915-939, 2018 (Journal Indexed in SCI)
- XXIII. **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, vol.81, pp.473-492, 2018 (Journal Indexed in SCI)
- XXIV. **Toward cost-effective and energy-efficient heat recovery systems in buildings: Thermal performance monitoring**  
Cuce P. M. , Cuce E.  
ENERGY, vol.137, pp.487-494, 2017 (Journal Indexed in SCI)

- XXV. **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, vol.146, pp.205-216, 2017 (Journal Indexed in SCI)
- XXVI. **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, vol.12, no.2, pp.126-135, 2017 (Journal Indexed in SCI)
- XXVII. **Thermal regulation impact of green walls: An experimental and numerical investigation**  
Cuce E.  
APPLIED ENERGY, vol.194, pp.247-254, 2017 (Journal Indexed in SCI)
- XXVIII. **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, vol.42, no.5, pp.1909-1916, 2017 (Journal Indexed in SCI)
- XXIX. **Role of airtightness in energy loss from windows: Experimental results from in-situ tests**  
Cuce E.  
ENERGY AND BUILDINGS, vol.139, pp.449-455, 2017 (Journal Indexed in SCI)
- XXX. **Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule size**  
MORETTI E., MERLI F., CÙCE E., BURATTI C.  
ENERGY, vol.111, pp.472-480, 2017 (Journal Indexed in SCI)
- XXXI. **Experimental and numerical investigation of a novel energy-efficient vacuum glazing technology for low-carbon buildings**  
Cuce E.  
INDOOR AND BUILT ENVIRONMENT, vol.26, no.1, pp.44-59, 2017 (Journal Indexed in SCI)
- XXXII. **Renewable and sustainable energy saving strategies for greenhouse systems: A comprehensive review**  
Cuce E., Harjunowibowo D., Cuce P. M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.64, pp.34-59, 2016 (Journal Indexed in SCI)
- XXXIII. **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, vol.11, no.3, pp.424-430, 2016 (Journal Indexed in SCI)
- XXXIV. **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, vol.60, pp.1286-1301, 2016 (Journal Indexed in SCI)
- XXXV. **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, vol.40, no.4, pp.537-549, 2016 (Journal Indexed in SCI)
- XXXVI. **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, vol.116, pp.449-454, 2016 (Journal Indexed in SCI)
- XXXVII. **Energy saving potential of heat insulation solar glass: Key results from laboratory and in-situ testing**  
Cuce E., Cuce P. M., Young C.  
ENERGY, vol.97, pp.369-380, 2016 (Journal Indexed in SCI)
- XXXVIII. **Vacuum glazing for highly insulating windows: Recent developments and future prospects**

- Cuce E., Cuce P. M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.54, pp.1345-1357, 2016 (Journal Indexed in SCI)
- XXXIX. **A novel roof type heat recovery panel for low-carbon buildings: An experimental investigation**  
Cuce P. M. , Cuce E., Riffat S.  
ENERGY AND BUILDINGS, vol.113, pp.133-138, 2016 (Journal Indexed in SCI)
- XL. **Theoretical investigation of hot box solar cookers having conventional and finned absorber plates**  
Cuce E., Cuce P. M.  
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.10, no.3, pp.238-245, 2015 (Journal Indexed in SCI)
- XLI. **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, vol.40, no.8, pp.2233-2238, 2015 (Journal Indexed in SCI)
- XLII. **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, vol.96, pp.31-38, 2015 (Journal Indexed in SCI)
- XLIII. **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, vol.93, pp.92-99, 2015 (Journal Indexed in SCI)
- XLIV. **Vacuum tube window technology for highly insulating building fabric: An experimental and numerical investigation**  
Cuce E., Riffat S. B.  
VACUUM, vol.111, pp.83-91, 2015 (Journal Indexed in SCI)
- XLV. **Thermal performance investigation of heat insulation solar glass: A comparative experimental study**  
Cuce E., Young C., Riffat S. B.  
ENERGY AND BUILDINGS, vol.86, pp.595-600, 2015 (Journal Indexed in SCI)
- XLVI. **A state-of-the-art review on innovative glazing technologies**  
Cuce E., Riffat S. B.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.41, pp.695-714, 2015 (Journal Indexed in SCI)
- XLVII. **Performance investigation of heat insulation solar glass for low-carbon buildings**  
Cuce E., Young C., Riffat S. B.  
ENERGY CONVERSION AND MANAGEMENT, vol.88, pp.834-841, 2014 (Journal Indexed in SCI)
- XLVIII. **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, vol.39, no.11, pp.8199-8207, 2014 (Journal Indexed in SCI)
- XLIX. **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, vol.77, pp.28-39, 2014 (Journal Indexed in SCI)
- L. **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, vol.34, pp.273-299, 2014 (Journal Indexed in SCI)
- LI. **An experimental analysis of illumination intensity and temperature dependency of photovoltaic cell parameters**  
Cuce E., Cuce P. M. , BALI T.  
APPLIED ENERGY, vol.111, pp.374-382, 2013 (Journal Indexed in SCI)
- LII. **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, vol.36, no.4, pp.206-208, 2013 (Journal Indexed in SCI Expanded)

- LIII. **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, vol.227, no.8, pp.1754-1760, 2013 (Journal Indexed in SCI)

- LIV. **A comprehensive review on solar cookers**

Cuce E., Cuce P. M.

APPLIED ENERGY, vol.102, pp.1399-1421, 2013 (Journal Indexed in SCI)

- LV. **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, vol.23, no.7, pp.1169-1178, 2013 (Journal Indexed in SCI)

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

Mert Cüce A. P. , Cüce E.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.7, no.2, pp.159-165, 2012 (Journal Indexed in SCI Expanded)

- LVII. **Effects of passive cooling on performance of silicon photovoltaic cells**

Cüce E., Bali T., Seküçoğlu S. A.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, no.4, pp.299-308, 2011 (Journal Indexed in SCI Expanded)

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

Cüce E., Riffat S.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, no.3, pp.212-241, 2011 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

- I. **Solar energy sector under the influence of Covid-19 pandemic: A critical review**

EROĞLU H., CÜCE E.

Journal of Energy Systems, vol.5, no.3, pp.244-251, 2021 (Refereed Journals of Other Institutions)

- II. **A perspective of COVID 19 impact on global economy, energy and environment**

Priya S. S. , Cüce E., Sudhakar K.

INTERNATIONAL JOURNAL OF SUSTAINABLE ENGINEERING, 2021 (Journal Indexed in ESCI)

- III. **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, vol.7, pp.25-35, 2021 (Journal Indexed in ESCI)

- IV. **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 (Journal Indexed in ESCI)

- V. **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, vol.1, pp.1-11, 2020 (Refereed Journals of Other Institutions)

- VI. **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, vol.7, pp.122-131, 2020 (Refereed Journals of Other Institutions)
- VII. **Improving thermal resistance of lightweight concrete hollow bricks: A numerical optimisation research for a typical masonry unit**  
CÜCE E., CUCE P. M. , BESIR A. B.  
Journal of Energy Systems, vol.4, no.3, pp.121-144, 2020 (Refereed Journals of Other Institutions)
- VIII. **GÜNEŞ BACASI GÜÇ SANTRALLERİNDE TOPLAYICI EĞİMİNİN ÇIKIŞ GÜCÜNE VE SİSTEM VERİMİNE ETKİSİ**  
CÜCE E.  
Uludağ University Journal of The Faculty of Engineering, vol.25, no.2, pp.1025-1038, 2020 (Other Refereed National Journals)
- IX. **Analysis of solar PV glare in airport environment: Potential solutions**  
Sreenath S, Sudhakar K., Yusop A., CÜCE E., Solomin E.  
Results in Engineering, vol.5, 2020 (Journal Indexed in ESCI)
- X. **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, vol.4, no.3, pp.121-144, 2020 (Refereed Journals of Other Institutions)
- XI. **Heat insulative photovoltaic glass: Optical, acoustic, thermal and electricity production performance**  
CÜCE E.  
Nigde Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, no.1, pp.494-503, 2020 (National Refreed University Journal)
- XII. **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, vol.24, no.3, pp.503-522, 2019 (National Refreed University Journal)
- XIII. **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, vol.10, pp.20-26, 2019 (Journal Indexed in ESCI)
- XIV. **Performance assessment of solar chimneys: Part I – Impact of chimney height on power output**  
CÜCE E., CUCE P. M.  
ENERGY RESEARCH JOURNAL, vol.10, pp.11-19, 2019 (Journal Indexed in ESCI)
- XV. **Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations**  
Cuce E., Oztekin E. K. , Cuce P. M.  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.40, no.4, pp.406-412, 2019 (Journal Indexed in ESCI)
- XVI. **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, vol.3, no.1, pp.26-35, 2019 (Refereed Journals of Other Institutions)
- XVII. **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, vol.40, no.1, pp.86-95, 2019 (Journal Indexed in ESCI)
- XVIII. **Performance Assessment of Solar Chimneys: Part I – Impact of Chimney Height on Power Output**  
CÜCE E., MERT CÜCE A. P.  
Energy Research Journal, vol.10, no.1, pp.11-19, 2019 (Refereed Journals of Other Institutions)
- XIX. **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, vol.10, no.1, pp.20-26, 2019 (Refereed Journals of Other Institutions)

- XX. **Smart Retrofit Solutions of Buildings toward a Low Carbon World**  
CÜCE E., MERT CÜCE P.  
Energy Research Journal, vol.9, no.1, pp.77-86, 2018 (Refereed Journals of Other Institutions)
- XXI. **Impact of humidity on current parameters of solar cells**  
CÜCE E., MERT CÜCE P., BALI T.  
Journal of Energy Systems, vol.2, no.3, pp.84-96, 2018 (Refereed Journals of Other Institutions)
- XXII. **Hybrid Photovoltaic/Thermal (HPV/T) Systems: From Theory to Applications**  
CÜCE E., ÖZTEKİN E. K. , MERT CÜCE P.  
Energy Research Journal, vol.9, no.1, pp.1-71, 2018 (Refereed Journals of Other Institutions)
- XXIII. **An Overview of Concentrating Photovoltaic Thermal (CPVT) Collectors**  
DANESHAZARIAN R., CÜCE E., MERT CÜCE P.  
Energy Research Journal, vol.8, no.1, pp.11-21, 2017 (Refereed Journals of Other Institutions)
- XXIV. **Hava sızdırmazlığının konvansiyonel pencerelerin ortalama ısı yalıtım performansındaki rolü**  
CÜCE E.  
Dicle Üniversitesi Mühendislik Fakültesi, vol.8, no.1, pp.159-174, 2016 (National Refreed University Journal)
- XXV. **An overview of domestic energy consumption in the UK: past, present and future**  
Cuce E.  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.37, no.4, pp.428-435, 2016 (Journal Indexed in ESCI)
- XXVI. **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, vol.36, no.4, pp.206-208, 2015 (Journal Indexed in ESCI)
- XXVII. **Energetic and exergetic performance assessment of solar cookers with different geometrical designs**  
Cuce E., Cuce P. M.  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.36, no.2, pp.62-69, 2015 (Journal Indexed in ESCI)
- XXVIII. **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, vol.9, no.4, pp.305-310, 2014 (Journal Indexed in ESCI)
- XXIX. **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, vol.6, no.1, pp.6, 2014 (Journal Indexed in ESCI)
- XXX. **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, vol.9, no.1, pp.80-84, 2014 (Journal Indexed in ESCI)
- XXXI. **Improving thermodynamic performance parameters of silicon photovoltaic cells via air cooling**  
CÜCE E., Cuce P. M.  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.35, no.4, pp.193-199, 2014 (Journal Indexed in ESCI)
- XXXII. **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, vol.76, no.1, pp.13-24, 2013 (Refereed Journals of Other Institutions)
- XXXIII. **A novel model of photovoltaic modules for parameter estimation and thermodynamic assessment**  
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## Books & Book Chapters

- I. **Thermal properties of aerogels: From theory to practice**  
CÜCE E., MERT CÜCE A. P. , GUCLU T., BESIR A. B.  
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- II. **Greenery systems toward low/zero carbon buildings**  
CÜCE E., BESIR A. B. , CÜCE P. M.  
in: Low Carbon Transition - Technical, Economic and Policy Assessment, Dr. Valter Silva, Editor, Intechopen, Rijeka, pp.29-50, 2018
- III. **Low/Zero-Carbon Buildings for a Sustainable Future**  
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- IV. **Toward thermal superinsulation technologies in buildings: Latest developments in glazing and building fabric**  
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## Refereed Congress / Symposium Publications in Proceedings

- I. **Dünden bugüne güneş bacası güç santralleri: Sistem güç çıkışına etki eden performans parametreleri**  
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- II. **A review on liquid desiccant based dehumidification systems**  
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- V. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**  
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- VI. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**

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**VII. Thermal performance of a novel thermoelectric refrigerator with a water to air heat exchanger and SiO<sub>2</sub>, TiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> nanofluids**

Cuce P. M. , Riffat S. B. , CÜCE E.

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**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, Turkey, 21 - 23 June 2019, pp.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, Turkey, 21 - 23 June 2019, pp.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 April 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 April 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 April 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 April 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 April 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 April 2018

**XVI. Optical performance parameters of thermally resistive PV glazing (TR-PVG)**

CÜCE E., CUCE P. M.

International Conference on Photonics Research, Antalya, Turkey, 8 - 12 October 2018, pp.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, Turkey, 26 - 29 April 2018, pp.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, Turkey, 26 - 29 April 2018, pp.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, Turkey, 26 - 29 April 2018, pp.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, Turkey, 26 - 29 April 2018, pp.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, Turkey, 26 - 29 April 2018, pp.655
- XXII. **U-value analysis of argon filled double glazed windows**  
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International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.1
- XXV. **A new technique for sorting of metals in scrap industry**  
CUCE P. M. , CÜCE E., GUCLU T., BESIR A. B. , GOKCE E.  
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- XXVI. **Global necessity to nearly zero-energy buildings (nZEB)**  
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- XXVII. **Thermal performance assessment of thermoelectric coolers for micro space cooling**  
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- XXVIII. **The comparison of greenery systems in terms of energy saving**  
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- XXXI. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**  
OZTEKIN E. K. , CUCE P. M. , CÜCE E.  
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- XXXII. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**  
ÖZTEKİN E. K. , MERT CÜCE P., CÜCE E.  
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- XXXIII. **Thermoelectric coolers (TECs) for potential air-conditioning applications in buildings**  
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- 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.  
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- XXXV. **Material selection for an optimized fin geometry through longitudinal perforations by using analytical hierarchy process**  
OZTEKIN E. K. , CÜCE E.  
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- 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, Turkey, 21 - 23 September 2017,  
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- XXXVII. **Smart solutions in heating, ventilation and air-conditioning (HVAC) systems toward low/zero carbon buildings**  
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- XXXVIII. **Reliability of single-diode mathematical models in parameter extraction of PV cells: An experimental and numerical investigation**  
CUCE P. M. , CÜCE E.  
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- 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, Turkey, 21 - 23 September 2017,  
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- XL. **A systematic overview of thermoelectric coolers (TECs)**  
GUCLU T., CÜCE E., BESIR A. B.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017,  
pp.1470
- XLI. **Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations**  
OZTEKIN E. K. , CÜCE E.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017,  
pp.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, Italy, 11 - 13 September 2016,  
vol.111, pp.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,  
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- 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, Indonesia, 6 - 07 October 2016, pp.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, Italy, 11 - 13 September 2016,  
pp.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, Singapore, 19 - 22 July 2016, pp.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, Singapore, 19 - 22 July 2016, pp.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, Singapore, 19 - 22 July 2016, pp.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, Singapore, 19 - 22 July 2016, pp.152
- L. **Cost-effective and energy-efficient strategies for greenhouse systems: A comprehensive review**  
CÜCE E., CÜCE P. M.  
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- 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, Singapore, 19 - 22 July 2016, pp.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, Singapore, 19 - 22 July 2016, pp.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.  
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- 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 August 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 August 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 August 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 August 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 August 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 August 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 August 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, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.625-633
- LXVI. **High Capacity Energy Efficiency Solar Glass**  
YOUNG C., RIFFAT S., CÜCE E.  
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.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, United Kingdom, 25 - 27 August 2015, pp.361
- LXIX. **Photovoltaic vacuum glazing for low carbon buildings**  
ALOTAIBI A., CÜCE E., RIFFAT S.  
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.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, Switzerland, 25 - 28 August 2014, pp.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, Switzerland, 25 - 28 August

2014, pp.40126

- LXXII. **Innovative window technologies for low-carbon buildings**  
CÜCE E.  
Workshop on novel energy and biotechnology developments in the sustainable built environment, İstanbul, Turkey, 24 - 27 March 2014, pp.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, United Kingdom, 12 - 13 September 2013, pp.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, United Kingdom, 12 - 13 September 2013, pp.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, China, 26 - 29 August 2013, pp.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, China, 26 - 29 August 2013, pp.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, China, 26 - 29 August 2013, pp.1
- LXXVIII. **Aerogel with its outstanding features and building applications**  
RIFFAT S., CÜCE E.  
Eleventh International Conference on Sustainable Energy Technologies, Vancouver, Canada, 2 - 05 September 2012, pp.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 September - 07 June 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, Turkey, 4 - 07 September 2011, pp.1
- LXXXI. **A review on performance analysis of photovoltaic/thermal collectors**  
RIFFAT S., CÜCE E.  
Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1
- LXXXII. **Improving performance parameters of silicon solar cells using air cooling**  
CÜCE E., BALI T.  
Fifth International Ege Energy Symposium and Exhibition, Denizli, Turkey, 27 - 30 June 2010, pp.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 Teknigi Kongresi, Sivas, Turkey, 24 - 27 June 2009, pp.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, Turkey, 13 - 15 May 2009, pp.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, United Arab Emirates, 19 - 23 April 2009, pp.1-6

## **Supported Projects**

Kar T., Cüce E., TUBITAK Project, Co-gasification of hazelnut shell-tea bush / lignite coal mixture and product analysis in fluid bed reactor, 2021 - 2023

CÜCE E., TUBITAK Project, 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., EU Supported Other Project, Innovative energy saving and climate control system for greenhouses, 2014 - 2016

MERT CÜCE A. P. , CÜCE E., EU Framework Program Project, HERB – Holistic energy-efficient retrofitting of residential buildings, 2012 - 2016

CÜCE E., MERT CÜCE A. P. , EU Framework Program Project, Development of heat insulation solar glass for low-carbon buildings, 2014 - 2015

CÜCE E., EU Supported Other Project, High performance vacuum window, 2012 - 2014

CÜCE E., MERT CÜCE A. P. , EU Supported Other Project, The EoN house retrofit research project, 2012 - 2013

CÜCE E., Other Supported Projects, Thermodynamic analysis of the effectiveness of different types of PV modules for wet conditions, 2008 - 2009

## **Activities in Scientific Journals**

Energy And Buildings, Special Issue Editor, 2021 - Continues

JOURNAL OF ADVANCED THERMAL SCIENCE RESEARCH, Committee Member, 2021 - Continues

GAZI JOURNAL OF ENGINEERING SCIENCES, Committee Member, 2021 - Continues

WORLD JOURNAL OF TEXTILE ENGINEERING AND TECHNOLOGY, Committee Member, 2021 - Continues

FUTURE CITIES AND ENVIRONMENT, Committee Member, 2020 - Continues

JOURNAL OF SOLAR ENERGY RESEARCH UPDATES, Committee Member, 2020 - Continues

GREEN BUILDING AND CONSTRUCTION ECONOMICS, First Editor, 2020 - Continues

ENERGY RESEARCH JOURNAL, Editor, 2016 - Continues

## **Edit Congress and Symposium Activities**

Recent Advancements in Sustainable Energy Storage and Conversion, Invited Speaker, Karnataka, India, 2021

Energy Positive Buildings & Sustainable Transport Workshop organised by University of Exeter, UK and VIT, India, Invited Speaker, Exeter, England, 2021

Novel Solar Energy Applications for the Built Environment, GIAN Programme Organised in Maulana Azad National Institute of Technology (MANIT), Bhopal, Invited Speaker, Bhopal, India, 2018

International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering (ICIMECE) & Annual Conference on Industrial and System Engineering (ACISE), Invited Speaker, Yogyakarta, Indonesia, 2016

## **Citations**

Total Citations (WOS):2213

h-index (WOS):23



## Scholarships

Post-Doctorate Research Fellowship from TUBITAK (The Scientific and Technological Research Council of Turkey) through funding programme 2219/1, 2015, TUBITAK, 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, University, 2014 - 2016

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

## Awards

CÜCE E., The Scientist of the Year Award - Yılın Bilim İnsanı Ödülü, Bilim Kahramanları Derneği, April 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, December 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, December 2017

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