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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

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

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

Professional 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, Post Graduate, T.GÜÇLÜ(Student), 2020

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

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

- I. **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)
- II. **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, is.3, pp.427-433, 2020 (Journal Indexed in SCI)
- III. **Enhanced performance figures of solar cookers through latent heat storage and low-cost booster reflectors**
MERT CÜCE A. P. , KOLAYLI S., CÜCE E.
International Journal of Low-Carbon Technologies, vol.15, is.3, pp.427-433, 2020 (Journal Indexed in SCI)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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, is.3, pp.513-534, 2020 (Journal Indexed in SCI)
- VIII. **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., BESİR A. B.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.37, 2020 (Journal Indexed in SCI)
- IX. **Sustainable ventilation strategies in buildings: CFD research**
CÜCE E., Sher F., Sadiq H., Cuce P. M. , GÜÇLÜ T., BESİR A. B.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.36, 2019 (Journal Indexed in SCI)
- X. **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)
- XI. **Thermoelectric Coolers (TECs): From Theory to Practice**
Guclu T., Cuce E.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, is.1, pp.211-230, 2019 (Journal Indexed in SCI)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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, is.2, pp.126-135, 2017 (Journal Indexed in SCI)
- XX. **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)
- XXI. **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, is.5, pp.1909-1916, 2017 (Journal Indexed in SCI)
- XXII. **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)
- XXIII. **Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule size**
MORETTI E., MERLI F., CÜCE E., BURATTI C.
ENERGY, vol.111, pp.472-480, 2017 (Journal Indexed in SCI)
- XXIV. **Experimental and numerical investigation of a novel energy-efficient vacuum glazing technology for low-carbon buildings**
Cuce E.
INDOOR AND BUILT ENVIRONMENT, vol.26, is.1, pp.44-59, 2017 (Journal Indexed in SCI)
- XXV. **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)

- XXVI. **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, is.3, pp.424-430, 2016 (Journal Indexed in SCI)
- XXVII. **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)
- XXVIII. **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, is.4, pp.537-549, 2016 (Journal Indexed in SCI)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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, is.3, pp.238-245, 2015 (Journal Indexed in SCI)
- XXXIV. **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, is.8, pp.2233-2238, 2015 (Journal Indexed in SCI)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)

- XL. 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)
- XLII. 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, is.11, pp.8199-8207, 2014 (Journal Indexed in SCI)
- XLIII. 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)
- XLIV. 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)
- XLV. 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)
- XLVI. 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, is.4, pp.206-208, 2013 (Journal Indexed in SCI Expanded)
- XLVII. 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, is.8, pp.1754-1760, 2013 (Journal Indexed in SCI)
- XLVIII. A comprehensive review on solar cookers**
Cuce E., Cuce P. M.
APPLIED ENERGY, vol.102, pp.1399-1421, 2013 (Journal Indexed in SCI)
- XLIX. 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, is.7, pp.1169-1178, 2013 (Journal Indexed in SCI)
- L. 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, is.2, pp.159-165, 2012 (Journal Indexed in SCI Expanded)
- L. 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, is.4, pp.299-308, 2011 (Journal Indexed in SCI Expanded)
- LI. A review on hybrid photovoltaic/thermal collectors and systems**
Cüce E., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, is.3, pp.212-241, 2011 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **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, is.3, pp.121-144, 2020 (Refereed Journals of Other Institutions)
- II. **GÜNEŞ BACASI GÜÇ SANTRALLERİNDE TOPLAYICI EĞİMİNİN ÇIKIŞ GÜCÜNE VE SİSTEM VERİMİNE ETKİSİ**
CÜCE E.
Uludağ University Journal of The Faculty of Engineering, vol.25, is.2, pp.1025-1038, 2020 (Other Refereed National Journals)
- III. **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 (Refereed Journals of Other Institutions)
- IV. **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, is.3, pp.121-144, 2020 (Refereed Journals of Other Institutions)
- V. **Heat insulative photovoltaic glass: Optical, acoustic, thermal and electricity production performance**
CÜCE E.
Nigde Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, is.1, pp.494-503, 2020 (National Refreed University Journal)
- VI. **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, is.3, pp.503-522, 2019 (National Refreed University Journal)
- VII. **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)
- VIII. **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)
- IX. **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, is.4, pp.406-412, 2019 (Journal Indexed in ESCI)
- X. **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, is.1, pp.26-35, 2019 (Refereed Journals of Other Institutions)
- XI. **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, is.1, pp.86-95, 2019 (Journal Indexed in ESCI)
- XII. **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, is.1, pp.11-19, 2019 (Refereed Journals of Other Institutions)
- XIII. **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, is.1, pp.20-26, 2019 (Refereed Journals of Other Institutions)

- XIV. **Smart Retrofit Solutions of Buildings toward a Low Carbon World**
CÜCE E., MERT CÜCE P.
Energy Research Journal, vol.9, is.1, pp.77-86, 2018 (Refereed Journals of Other Institutions)
- XV. **Impact of humidity on current parameters of solar cells**
CÜCE E., MERT CÜCE P., BALI T.
Journal of Energy Systems, vol.2, is.3, pp.84-96, 2018 (Refereed Journals of Other Institutions)
- XVI. **Hybrid Photovoltaic/Thermal (HPV/T) Systems: From Theory to Applications**
CÜCE E., ÖZTEKİN E. K. , MERT CÜCE P.
Energy Research Journal, vol.9, is.1, pp.1-71, 2018 (Refereed Journals of Other Institutions)
- XVII. **An Overview of Concentrating Photovoltaic Thermal (CPVT) Collectors**
DANESHAZARIAN R., CÜCE E., MERT CÜCE P.
Energy Research Journal, vol.8, is.1, pp.11-21, 2017 (Refereed Journals of Other Institutions)
- XVIII. **Hava sızdırmazlığının konvansiyonel pencerelerin ortalama ısı yalıtım performansındaki rolü**
CÜCE E.
Dicle Üniversitesi Mühendislik Fakültesi, vol.8, is.1, pp.159-174, 2016 (National Refereed University Journal)
- XIX. **An overview of domestic energy consumption in the UK: past, present and future**
Cuce E.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.37, is.4, pp.428-435, 2016 (Journal Indexed in ESCI)
- XX. **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, is.4, pp.206-208, 2015 (Journal Indexed in ESCI)
- XXI. **Energetic and exergetic performance assessment of solar cookers with different geometrical designs**
Cuce E., Cuce P. M.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.36, is.2, pp.62-69, 2015 (Journal Indexed in ESCI)
- XXII. **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, is.4, pp.305-310, 2014 (Journal Indexed in ESCI)
- XXIII. **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, is.1, pp.6, 2014 (Journal Indexed in ESCI)
- XXIV. **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, is.1, pp.80-84, 2014 (Journal Indexed in ESCI)
- XXV. **Improving thermodynamic performance parameters of silicon photovoltaic cells via air cooling**
CÜCE E., Cuce P. M.
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.35, is.4, pp.193-199, 2014 (Journal Indexed in ESCI)
- XXVI. **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, is.1, pp.13-24, 2013 (Refereed Journals of Other Institutions)
- XXVII. **A novel model of photovoltaic modules for parameter estimation and thermodynamic assessment**
Cuce P. M. , Cuce E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.7, is.2, pp.159-165, 2012 (Journal Indexed in ESCI)
- XXVIII. **Effects of passive cooling on performance of silicon photovoltaic cells**
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XXIX. A review on hybrid photovoltaic/thermal collectors and systems

Riffat S. B. , Cuce E.

INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, is.3, pp.212-241, 2011 (Journal Indexed in ESCI)

Books & Book Chapters

- I. **Thermal properties of aerogels: From theory to practice**
CÜCE E., MERT CÜCE A. P. , GUCLU T., BESIR A. B.
in: Translucent silica aerogel: Properties, preparation and applications, Cinzia Buratti, Editor, Nova Science Publishers, Italy, pp.1-306, 2019
- 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**
CÜCE E., AHMET B B., CUCE P. M.
in: Low Carbon Technology and Economy, Dr. Valter Silva, Editor, InTechOpen, pp.29-50, 2018
- IV. **Toward thermal superinsulation technologies in buildings: Latest developments in glazing and building fabric**
CÜCE E.
Lap Lambert Academic Publishing, Saarbrücken, Germany, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Dünden bugüne güneş bacası güç santralleri: Sistem güç çıkışına etki eden performans parametreleri**
CÜCE E., Sen H.
Avrasya 7. Uygulamalı Bilimler Kongresi, Trabzon, Turkey, 21 - 22 August 2020, pp.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, Turkey, 27 - 29 December 2019
- III. **A review on liquid desiccant based dehumidification systems**
Cuce P. M. , Ozturk K., CÜCE E.
İkinci Uluslararası Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Turkey, 27 - 29 December 2019, pp.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, Malaysia, 20 - 22 August 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, Malaysia, 20 - 22 August 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, Malaysia, 20 - 22 August 2019, pp.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, Malaysia, 20 - 22 August 2019, pp.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, 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**
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- BESIR A. B. , CÜCE E., GUCLU T.
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- XXXVII. **Smart solutions in heating, ventilation and air-conditioning (HVAC) systems toward low/zero carbon buildings**
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- LI. **Recent passive technologies of greenhouse systems: A review**
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- LII. **Recent developments on multi-functional PV glazing technologies: Heat insulation solar glass**
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- 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**
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- Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
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- 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.
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- 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**
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- LIX. **High Capacity Energy Efficiency Solar Glass Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
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- LXX. **An overview of sectoral energy consumption in the UK: past, present and future**
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- LXXI. **Experimental and numerical investigation of a novel energy-efficient window technology for low-carbon buildings: Vacuum tube window**
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- 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**
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- LXXV. **Optimum insulation thickness of aerogel in buildings**
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- LXXVI. **Theoretical investigation of solar powered heat recovery panels in buildings**
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- LXXVII. **Second law analysis of solar powered heat recovery panels in buildings**
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- LXXVIII. **Aerogel with its outstanding features and building applications**
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- LXXIX. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
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 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

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, 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

FUTURE CITIES AND ENVIRONMENT, Committee Member, 2020 - Continues

GREEN BUILDING AND CONSTRUCTION ECONOMICS, Editor, 2020 - Continues

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

ENERGY RESEARCH JOURNAL, Editor, 2016 - Continues

Invited Congress and Symposium Activities

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

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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