

## Doç.Dr. AYŞE PINAR MERT CÜCE

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, University of Nottingham, Faculty of Engineering, Mechanical Engineering, İngiltere 2013 - 2016

### Yaptığı Tezler

Doktora, Innovative Heating, Cooling and Ventilation Technologies For Low-Carbon Buildings, University of Nottingham, Faculty Of Engineering, Department Of Mechanical Engineering, 2016

### Araştırma Alanları

Makina Mühendisliği, Enerji, Akışkanlar Mekaniği , Alternatif Enerji Kaynakları, Güneş Enerjisi, İleri Enerji Teknolojileri, Termodinamik, Isı ve Madde Transferi, Isıtma, Soğutma ve Havalandırma , Isıl Sistemler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç.Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Mimarlık, 2021 - Devam Ediyor

Doç.Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Enerji Sistemleri Mühendisliği, 2020 - 2021

Yrd.Doç.Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Enerji Sistemleri Mühendisliği, 2018 - 2020

Yrd.Doç.Dr., Bayburt Üniversitesi, Faculty Of Engineering, Department Of Mechanical Engineering, 2017 - 2018

Uzman Dr., University of Nottingham, Faculty Of Engineering, Department Of Architecture And Built Environment, 2015 - 2016

Araştırma Görevlisi, University of Nottingham, Faculty Of Engineering, Department Of Architecture And Built Environment, 2012 - 2015

### Akademik İdari Deneyim

Yapı Bilgisi Anabilim Dalı Başkanı, Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Mimarlık, 2021 - Devam Ediyor

Bölüm Başkan Yardımcısı, Recep Tayyip Erdoğan Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Enerji Sistemleri Mühendisliği, 2018 - 2021

## Verdiği Dersler

ADVANCED FLUID MECHANICS, Yüksek Lisans, 2020 - 2021  
ENERGY EFFICIENCY AND MANAGEMENT, Lisans, 2018 - 2019  
FLUID MECHANICS II, Lisans, 2018 - 2019  
CLIMATE CHNAGE AND ENVIRONMENT, Yüksek Lisans, 2018 - 2019  
ENERGY MANAGEMENT IN INDUSTRY AND BUILDINGS, Yüksek Lisans, 2018 - 2019  
ADVANCED THERMODYNAMICS, Yüksek Lisans, 2018 - 2019  
FLUID MECHANICS I, Lisans, 2018 - 2019  
ENERGY MANAGEMENT IN INDUSTRY, Lisans, 2018 - 2019  
HYDOELECTRIC POWER PLANTS, Lisans, 2018 - 2019  
HEAT PUMPS AND APPLICATIONS, Yüksek Lisans, 2018 - 2019  
HEAT TRANSFER II, Lisans, 2017 - 2018  
HEAT TRANSFER I, Lisans, 2017 - 2018

## 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. , Termoelektrik soğutucularda nanoakışkan kullanımının soğutma gücü ve temel performans parametreleri üzerine etkisi, Yüksek Lisans, T.GÜÇLÜ(Öğrenci), 2020  
Cüce E., Mert Cüce A. P. , Boşluklu yapı elemanlarında geometrik optimizasyon ile ısıl direncin iyileştirilmesi için termal stratejilerin geliştirilmesi, Yüksek Lisans, A.BURHANEDDİN(Öğrenci), 2020

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.48, ss.101566, 2021 (SCI Expanded İndekslerine Giren Dergi)
- II. **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, ss.101257, 2021 (SCI Expanded İndekslerine Giren Dergi)
- III. **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, sa.2021, ss.6612222, 2021 (SCI Expanded İndekslerine Giren Dergi)
- IV. **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, cilt.16, sa.3, ss.704-714, 2021 (SCI Expanded İndekslerine Giren Dergi)
- V. **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, cilt.15, sa.3, ss.427-433, 2020 (SCI Expanded İndekslerine Giren Dergi)
- VI. **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 İndekslerine Giren Dergi)

- VII. **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 İndekslerine Giren Dergi)
- VIII. **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, cilt.39, 2020 (SCI İndekslerine Giren Dergi)
- IX. **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, cilt.37, 2020 (SCI İndekslerine Giren Dergi)
- X. **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, cilt.36, 2019 (SCI İndekslerine Giren Dergi)
- XI. **Optimised performance of a thermally resistive PV glazing technology: An experimental validation**  
CÜCE E., Cuce P. M.  
ENERGY REPORTS, cilt.5, ss.1185-1195, 2019 (SCI İndekslerine Giren Dergi)
- XII. **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 İndekslerine Giren Dergi)
- XIII. **Box type solar cookers with sensible thermal energy storage medium: A comparative experimental investigation and thermodynamic analysis**  
Cuce P. M.  
SOLAR ENERGY, cilt.166, ss.432-440, 2018 (SCI İndekslerine Giren Dergi)
- XIV. **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 İndekslerine Giren Dergi)
- XV. **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 İndekslerine Giren Dergi)
- XVI. **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 İndekslerine Giren Dergi)
- XVII. **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 İndekslerine Giren Dergi)
- XVIII. **Thermal performance assessment of a novel liquid desiccant-based evaporative cooling system: An experimental investigation**  
Cuce P. M.  
ENERGY AND BUILDINGS, cilt.138, ss.88-95, 2017 (SCI İndekslerine Giren Dergi)
- XIX. **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 İndekslerine Giren Dergi)
- XX. **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 İndekslerine Giren Dergi)
- XXI. **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 İndekslerine Giren Dergi)
- XXII. **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 İndekslerine Giren Dergi)
- XXIII. **A state of the art review of evaporative cooling systems for building applications**  
Cuce P. M. , Riffat S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.54, ss.1240-1249, 2016 (SCI İndekslerine Giren Dergi)
- XXIV. **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 İndekslerine Giren Dergi)
- XXV. **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 İndekslerine Giren Dergi)
- XXVI. **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 İndekslerine Giren Dergi)
- XXVII. **A comprehensive review of heat recovery systems for building applications**  
Cuce P. M. , Riffat S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.47, ss.665-682, 2015 (SCI İndekslerine Giren Dergi)
- XXVIII. **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 İndekslerine Giren Dergi)
- XXIX. **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 İndekslerine Giren Dergi)
- XXX. **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 İndekslerine Giren Dergi)
- XXXI. **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 İndekslerine Giren Dergi)
- XXXII. **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 İndekslerine Giren Dergi)
- XXXIII. **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 İndekslerine Giren Dergi)

**XXXIV. 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 İndekslerine Giren Dergi)

**XXXV. A comprehensive review on solar cookers**

Cuce E., Cuce P. M.

APPLIED ENERGY, cilt.102, ss.1399-1421, 2013 (SCI İndekslerine Giren Dergi)

**XXXVI. 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 İndekslerine Giren Dergi)

**XXXVII. 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 İndekslerine Giren Dergi)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **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 (ESCI İndekslerine Giren Dergi)
- II. **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 İndekslerine Giren Dergi)
- III. **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 (Diğer Kurumların Hakemli Dergileri)
- IV. **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 (Diğer Kurumların Hakemli Dergileri)
- V. **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 (Diğer Kurumların Hakemli Dergileri)
- VI. **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 İndekslerine Giren Dergi)
- VII. **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 İndekslerine Giren Dergi)
- VIII. **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 (Diğer Kurumların Hakemli Dergileri)
- IX. **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 (Diğer Kurumların Hakemli Dergileri)
- X. **Novel, Practical and Reliable Analytical Models to Estimate Electrical Efficiency of Building-Integrated Photovoltaic/Thermal (BIPVT) Collectors and Systems**  
MERT CÜCE P.  
Uludağ University Journal of The Faculty of Engineering, cilt.23, sa.3, ss.191-206, 2018 (Diğer Kurumların Hakemli Dergileri)
- XI. **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 (Diğer Kurumların Hakemli Dergileri)
- XII. **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 (Diğer Kurumların Hakemli Dergileri)
- XIII. **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 (Diğer Kurumların Hakemli Dergileri)
- XIV. **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 (Diğer Kurumların Hakemli Dergileri)
- XV. **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 İndekslerine Giren Dergi)
- XVI. **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 İndekslerine Giren Dergi)
- XVII. **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 İndekslerine Giren Dergi)
- XVIII. **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 İndekslerine Giren Dergi)
- XIX. **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 (Diğer Kurumların Hakemli Dergileri)
- XX. **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 İndekslerine Giren Dergi)

## **Kitap & Kitap Bölümleri**

- I. **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

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

CÜCE E., BEŞİR A. B. , MERT CÜCE A. P.

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

**Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **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
- II. **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
- III. **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**  
MERT CÜCE A. P. , RIFFAT S., CÜCE E.  
Eighteenth International Conference on Sustainable Energy Technologies, Kuala-Lumpur, Malezya, 20 - 22 Ağustos 2019
- IV. **Experimental performance investigation of A solar powered water distillation system enhanced with passive solar reflector and sensible heat storage medium**  
MERT CÜCE P.  
Ereğli International Science and Academic Congress, Konya, Türkiye, 9 - 10 Mart 2019
- V. **Optical performance parameters of thermally resistive PV glazing (TR-PVG)**  
MERT CÜCE A. P. , CÜCE E.  
International Conference on Photonics Research, Kastamonu, Türkiye, 8 - 12 Kasım 2018, ss.1
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- 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. **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
- XIII. **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

- XIV. **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
- XV. **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
- XVI. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**  
ÖZTEKİN E. K. , MERT CÜCE P., CÜCE E.  
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- XVII. **The comparison of greenery systems in terms of energy saving**  
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- XX. **The role of plants in temperature regulation of external walls: An experimental and numerical research**  
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- XXI. **Cost-effective and energy-efficient strategies for greenhouse systems: A comprehensive review**  
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- XXVI. **Thermal performance assessment of porous fins via homotopy perturbation method**  
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- XXIX. **Toward low-carbon HVAC technologies in buildings**

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- XXX. **An experimental study on a novel heat recovery system**  
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- XXXI. **Novel heat recovery technologies for domestic applications**  
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- XXXII. **Tilt angle optimization of building-integrated photovoltaics (BIPVs) for cooler operating temperatures**  
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- XXXIII. **Passive cooling of building-integrated photovoltaics (BIPVs) for better electrical performance**  
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- XXXV. **Optimum insulation thickness of aerogel in buildings**  
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- XXXVII. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**  
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## **Desteklenen Projeler**

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## **Bilimsel Dergilerdeki Faaliyetler**

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## **Bilimsel Hakemlikler**

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Energy Efficiency, SCI Kapsamındaki Dergi, Ocak 2017

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## **Kongre ve Sempozyum Katılımı Faaliyetleri**

Novel Energy and Biotechnology Developments in the Sustainable Built Environment, Davetli Konuşmacı, İstanbul, Türkiye, 2014  
East Midlands Universities Conference at the University of Leicester, Davetli Konuşmacı, Leicester, İngiltere, 2013

## **Atıflar**

Toplam Atıf Sayısı (WOS):1612  
h-indeksi (WOS):20

## **Burslar**

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, 2015 - 2016  
Postgraduate Research Scholarship of Doctoral research in Sustainable Energy Technologies at the University of Nottingham, Üniversite, 2013 - 2015

## **Ödüller**

MERT CÜCE A. P. , Highly Cited Paper Award from Web of Science. A state of the art review of evaporative cooling. (%1 in the relevant academic field), Thomson Reuters, Ocak 2018  
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