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Education

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 Positions

Associate Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2021 - Continues

Academic and Administrative Experience

TTO Koordinatörü, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2022 - Continues

Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - 2021

Supervised Theses

Mert Cüce A. P., Cüce E., Duyulur ısı depolamalı güneş enerjisi destekli su damıtma sisteminin performans parametrelerinin deneysel incelenmesi, Postgraduate, A.TONYALI(Student), 2022

Cüce E., Mert Cüce A. P., Güneş bacası güç santrallerinin parametrik optimizasyonu, Postgraduate, H.ŞEN(Student), 2021

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 ısıl direncin iyileştirilmesi için termal stratejilerin geliştirilmesi, Postgraduate, A.BURHANEDDİN(Student), 2020

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Nanotechnology and LSTM machine learning algorithms in advanced fuel spray dynamics in CI engines with different bowl geometries**
Venu H., Soudagar M. E. M., Kiong T. S., Razali N. M., Wei H., Rajabi A., Raju V. D., Khan T. M. Y., Almakayeel N., CÜCE E., et al.
SCIENTIFIC REPORTS, vol.15, no.1, 2025 (SCI-Expanded)
- II. **Performance and emission prediction using ANN (artificial neural network) on H₂-assisted Garcinia gummi-gutta biofuel doped with nano additives**
Venu H., Soudagar M. E. M., Kiong T. S., Razali N. M., Wei H., Khan T. M. Y., Almakayeel N., Kalam M. A., CÜCE E.
SCIENTIFIC REPORTS, vol.15, no.1, 2025 (SCI-Expanded)
- III. **A comparative study of helical and spiral flow paths in solar air heaters: Experimental testing and CFD modeling**
Ben Amara W., Bouabidi A., Chrigui M., CÜCE E.
RENEWABLE ENERGY, vol.244, 2025 (SCI-Expanded)
- IV. **Comparative analysis of geometrical configurations in aero-thermal panel systems**
Driss S., Attia M. E. H., Cüce E., Driss Z., Abdel-Aziz M. M.
RENEWABLE ENERGY, vol.248, pp.123149, 2025 (SCI-Expanded)
- V. **Empowering smart city through smart grid communication and measurement technology**
Mohanty A., Mohanty S., Satapathy A. S., Soudagar M. E. M., Shahapurkar K., Cüce E.
INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, vol.20, pp.404-420, 2025 (SCI-Expanded)
- VI. **Hybrid Solar Chimneys: Enhancing Thermal Comfort and Alleviating Indoor Air Pollutants - A Comprehensive Review**
Mandal D. K., Bose S., Biswas N., Manna N. K., Santra S., Cüce E., Alshahrani S.
SOLAR ENERGY INTERNATIONAL JOURNAL FOR SCIENTISTS, ENGINEERS AND TECHNOLOGISTS IN SOLAR ENERGY AND ITS APPLICATION, vol.293, pp.113442, 2025 (SCI-Expanded)
- VII. **Thermal performance analysis of a low-cost and eco-friendly rotary desiccant wheel dehumidification system with recycled materials**
Mert Cüce A. P., Cüce E., Alqahtani A. A., Alshahrani S., Soudagar M. E. M., Cao J., Bouabidi A., Attia M. E. H., Yilmaz Y. N.
CASE STUDIES IN THERMAL ENGINEERING, vol.70, pp.105973, 2025 (SCI-Expanded)
- VIII. **The investigation of thermal insulation property of the pine needle waste**

Bendaikha W., Allouche F., Abdeladim K., Bouabidi A., Cüce E.

Journal of Thermal Analysis and Calorimetry, vol.151, pp.1-10, 2025 (SCI-Expanded)

- IX. **A review and classification of conventional, advanced, smart and multifunctional glazing technologies for low-carbon building applications**
Mert Cüce A. P., Güçlü T., Cüce E.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.35, no.2-4, pp.261-280, 2025 (SCI-Expanded)
- X. **Enhanced Stability and Optimization of SMES-Based Deregulated Power Systems Using the Repulsive Firefly Algorithm**
Mohanty A., Mohanty S., Mohanty P. P., Soudagar M. E. M., Ramesh S., Bhutto J. K., Barnawi A. B., Cüce E.
PHYSICA C: SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.632, pp.1354692, 2025 (SCI-Expanded)
- XI. **Performance and emission characteristics of hydrogen enriched CNG in a dual fuel diesel engine: An experimental and numerical research**
Saaidia R., Hamdi F., Krotli M., Bouabidi A., CÜCE E., Koten H., Miraoui I.
RENEWABLE ENERGY, vol.241, 2025 (SCI-Expanded)
- XII. **Optimization on the structure and filling ratio of a flexible separate heat pipe applied for tracking-type photovoltaic/thermal systems**
Zheng L., Cao J., Peng J., Lu Z., Hong X., CÜCE E., Liu W., Pei G., Ji J.
Renewable Energy, vol.239, 2025 (SCI-Expanded)
- XIII. **Energy Efficiency in Portuguese Traditional Cheese Industries: A Comprehensive Case Study**
Nunes J., Silva P. D., Andrade L. P., Gaspar P. D., MERT CÜCE A. P., CÜCE E., Yilmaz Y. N.
ENERGIES, vol.18, no.3, 2025 (SCI-Expanded)
- XIV. **Floating solar sustainability on land and ocean: A strategic assessment using SWOT-TWOS-PESTLE analysis**
Kaur N., Sudhakar K., Mohamed M. R., CÜCE E., Barbulescu D.
SCIENCE AND TECHNOLOGY FOR ENERGY TRANSITION, 2025 (SCI-Expanded)
- XV. **Towards Sustainable and Climate-Resilient Cities: Mitigating Urban Heat Islands Through Green Infrastructure**
MERT CÜCE A. P., CÜCE E., Santamouris M.
SUSTAINABILITY, vol.17, no.3, 2025 (SCI-Expanded)
- XVI. **A Short Review on Nano-Additives to Enhance Biodiesel Performance in Diesel Engines**
Jathar L. D., Meherunnesa S., Shelare S., Shahapurkar K., Abedin T., Farade R. A., Rajabi A., Khan T. M. Y., Singh R., CÜCE E., et al.
JOURNAL OF THERMAL SCIENCE, 2025 (SCI-Expanded)
- XVII. **Numerical investigation on heat transfer and flow mechanism in microchannel heat sink having V shape ribs**
Ali N., Haque I., Alam T., Siddiqui T. U., Ansari M. A., Yadav J., Srivastava S., CÜCE E., Ashraf I., Dobrotă D.
Case Studies in Thermal Engineering, vol.65, 2025 (SCI-Expanded)
- XVIII. **Anti-solvent materials enhanced structural and optical properties on ambiently fabricated perovskite thin films**
Nur-E-Alam M., Islam M. A., Kar Y. B., Kiong T. S., Misran H., Khandaker M. U., Fouad Y., Soudagar M. E. M., CÜCE E.
SCIENTIFIC REPORTS, vol.14, no.1, 2024 (SCI-Expanded)
- XIX. **Optical power monitoring systems for offshore wind farms: A literature review**
Mohanty S., Ramasamy A. K., Mohanty A., Mohanty P. P., Soudagar M. E. M., Khan T. M. Y., CÜCE E.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.72, 2024 (SCI-Expanded)
- XX. **Divergent chimney and sloping collector design for ground heat source integrated solar chimney power plants**
CÜCE E.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.149, no.23, pp.14147-14161, 2024 (SCI-Expanded)
- XXI. **Characterization Methods for Azobenzene Photoisomerization Energy Storage: A Review**
Zhang J., Zhang L., Jin G., Lin C., CÜCE E., Guo S.
JOURNAL OF THERMAL SCIENCE, vol.33, no.6, pp.2117-2137, 2024 (SCI-Expanded)

- XXII. **Smart grid and application of big data: Opportunities and challenges**
Mohanty A., Ramasamy A., Verayiah R., Bastia S., Swaroop Dash S., Soudagar M. E. M., Yunus Khan T., CÜCE E.
Sustainable Energy Technologies and Assessments, vol.71, 2024 (SCI-Expanded)
- XXIII. **Parametric optimization for enhancing the electrical performance of hybrid photovoltaic/thermal and thermally regenerative electrochemical cycle system**
Sha Y., Tang X., CÜCE E., Li G., Zhao X.
ENERGY, vol.307, 2024 (SCI-Expanded)
- XXIV. **A state-of-art review on photovoltaic systems: Design, performance, and progress**
Saxena A., Kumar R., Sagade A. A., Singh D. B., Tyagi V. V., CÜCE E., Goel V.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.190, pp.1324-1354, 2024 (SCI-Expanded)
- XXV. **Micro-scale fuel cell cogeneration system response combined with heat pump consumption in arid zones**
Bendaikha W., Ghriss O., Larbi S., Bouabidi A., CÜCE E.
ENERGY, vol.305, 2024 (SCI-Expanded)
- XXVI. **Power system resilience and strategies for a sustainable infrastructure: A review**
Mohanty A., Ramasamy A. K., Verayiah R., Bastia S., Dash S. S., CÜCE E., Khan T. M. Y., Soudagar M. E. M.
ALEXANDRIA ENGINEERING JOURNAL, vol.105, pp.261-279, 2024 (SCI-Expanded)
- XXVII. **CFD analysis of the impact of air gap width on Trombe wall performance**
Frijji K., Ghriss O., Bouabidi A., CÜCE E., Alshahrani S.
ENERGY SCIENCE & ENGINEERING, vol.12, no.10, pp.4598-4612, 2024 (SCI-Expanded)
- XXVIII. **Improvement of azobenzene photothermal energy storage density via grafting onto g-C₃N₄ 3 N 4 and introducing hydrogen bonding**
Zhang L., Jin Y., Jin J., Guo C., Xiong R., CÜCE E., Jin G., Guo S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.83, pp.673-681, 2024 (SCI-Expanded)
- XXIX. **Enhanced convective heat transfer with Al₂O₃-water 2 O 3-water nanofluid in a PCM-based thermal energy storage system**
Roy A., Venkitaraj K. P., Vigneshwaran P., Saboor S., CÜCE E., Saxena K. K.
JOURNAL OF ENERGY STORAGE, vol.97, 2024 (SCI-Expanded)
- XXX. **Energy consumption, power generation and performance analysis of solar photovoltaic module based building roof**
Wei L., Islam M., Hasanuzzaman M., CÜCE E.
JOURNAL OF BUILDING ENGINEERING, vol.90, pp.109361, 2024 (SCI-Expanded)
- XXXI. **ANN and CFD driven research on main performance characteristics of solar chimney power plants: Impact of chimney and collector angle**
MERT CÜCE A. P., CÜCE E., Mandal D., Gayen D., Asif M., Bouabidi A., Alshahrani S., Prakash C., Soudagar M.
CASE STUDIES IN THERMAL ENGINEERING, vol.60, pp.104568, 2024 (SCI-Expanded)
- XXXII. **Unlocking energy efficiency: Experimental investigation of bamboo fibre reinforced briquettes as sustainable solution with enhanced thermal resistance**
Cuce P., Alvur E., Cuce E., Alshahrani S., Prakash C., Tan H., Ustabas I.
CASE STUDIES IN THERMAL ENGINEERING, vol.60, pp.104680, 2024 (SCI-Expanded)
- XXXIII. **A Review and Classification of Conventional, Advanced, Smart and Multifunctional Glazing Technologies for Low-Carbon Building and Applications**
Mert Cüce A. P., Güçlü T., Cüce E.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.34, pp.1-3, 2024 (SCI-Expanded)
- XXXIV. **Assessment of higher demand of household energy consumption in different households in India: an inter-comparative study and solar savings valuation**
Saxena A., Sagade A. A., Cüce E., Singh D. B., Kumar A., Gupta P.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, pp.11356, 2024 (SCI-Expanded)
- XXXV. **Assessing performance of an external compound parabolic concentrator solar collector with cascaded latent heat thermal storage**
Satchi C., Muthuraman P., Thakur A., MERT CÜCE A. P., CÜCE E., Balavadivel R.

ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.43, no.4, 2024 (SCI-Expanded)

- XXXVI. **Characteristics of the built environment in the Eastern Mediterranean and Middle East and related energy and climate policies**
Carlucci S., Lange M., Artopoulos G., Albuflasa H., Assimakopoulos M., Attia S., Azar E., CÜCE E., Hajiah A., Meir I., et al.
ENERGY EFFICIENCY, vol.17, no.5, pp.52, 2024 (SCI-Expanded)
- XXXVII. **Heat dissipation and fluid flow in micro-channel heat sink equipped with semi-elliptical pin-fin structures: A numerical study**
Ali N., Srivastava S., Haque I., Yadav J., Alam T., Siddiqui T., Siddiqui M., CÜCE E.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.155, pp.107492, 2024 (SCI-Expanded)
- XXXVIII. **Current trends and biotechnology infused cleaner production of biomaterials for the construction industry: A critical review**
Sivalinga V., Devarajan P., Ramalingam B., Soudagar M., Mohanavel V., Khan T., Shahapurkar K., CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.19, pp.833-849, 2024 (SCI-Expanded)
- XXXIX. **Optimizing soybean biofuel blends for sustainable urban medium-duty commercial vehicles in India: an AI-driven approach**
Rajak U., Chaurasiya P. K., Verma T. N., Dasore ., Ağbulut Ü., Meshram ., Saleel ., Saboor ., Cüce E., Mian Z.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.32, pp.26400, 2024 (SCI-Expanded)
- XL. **Contemporary Evaporative Cooling System with Indirect Interaction in Construction Implementations: A Theoretical Exploration**
MERT CÜCE A. P., CÜCE E., Riffat S.
BUILDINGS, vol.14, no.4, pp.994, 2024 (SCI-Expanded)
- XLI. **Design, modelling, environmental, economic and performance analysis of parabolic trough solar collector (PTC) based cogeneration systems assisted by thermoelectric generators (TEGs)**
MERT CÜCE A. P., Guclu T., CÜCE E.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.64, pp.103745, 2024 (SCI-Expanded)
- XLII. **Experimental studies and comprehensive computational investigations on composites-based phase change material for battery thermal management systems in electric vehicles**
Subramanian M., Solomon J. M., Raja V., Arputharaj B. S., Shaik S., Saleel C. A., Alwetaishi M., CÜCE E.
JOURNAL OF ENERGY STORAGE, vol.82, 2024 (SCI-Expanded)
- XLIII. **Continuous electricity generation from diurnal and seasonal air temperature variation**
Tang X., Cuce E., Li G., Zhao X.
Applied Thermal Engineering, vol.241, 2024 (SCI-Expanded)
- XLIV. **Solar Chimney Power Plants for Sustainable Air Quality Management Integrating Photocatalysis and Particulate Filtration: A Comprehensive Review**
Mandal D., Bose S., Biswas N., Manna N., CÜCE E., Benim A.
SUSTAINABILITY, vol.16, no.6, pp.2334, 2024 (SCI-Expanded)
- XLV. **Systematic inspection on the interplay between MoNa-induced sodium and the formation of MoSe₂ intermediate layer in CIGSe/Mo heterostructures**
Za'abar F. '., Doroody C., Soudagar M. E. M., Chelvanathan P., Abdullah W. S. W., Zuhd A. W. M., Cüce E., Saboor S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, no.15, pp.1-13, 2024 (SCI-Expanded)
- XLVI. **Fire retardation, compressive strength and durability analysis of concrete reinforced with novel plasters: An experimental, computational and statistical research**
Ustabas I., Cuce P., Alvur E., Kesepara D., Yilmaz Y., Cuce E., Alshahrani S.
CASE STUDIES IN THERMAL ENGINEERING, vol.55, pp.104156, 2024 (SCI-Expanded)
- XLVII. **Thermal Analysis of Building Roofs with Latent Heat Storage for Reduction in Energy Consumption and CO₂ Emissions: An Experimental and Numerical Research**
CÜCE E., Shaik S., Roy A., Arumugam C., Afzal A., MERT CÜCE A. P., Ghosh A., Alam T., Shaik S.
ADVANCES IN CIVIL ENGINEERING, vol.2024, pp.1-15, 2024 (SCI-Expanded)
- XLVIII. **An overview of the existing and future state of the art advancement of hybrid energy systems based on PV-solar and wind**

- Soudagar M., Ramesh S., Khan T., Almakayeel N., Ramesh R., Ghazali N., CÜCE E., Shelare S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.19, pp.207-216, 2024 (SCI-Expanded)
- XLIX. **Analysis of the benefits of adopting roof sandwich panels integrated with PCM versus PUR to mitigate energy costs and carbon dioxide emissions**
Arumugam C., Shaik S., Roy A., Kontoleon K. J., CÜCE E., Shaik A. H., Chakraborty S., Alwetaishi M., MERT CÜCE A. P., Gupta M.
Journal of Energy Storage, vol.77, 2024 (SCI-Expanded)
- L. **Passive sustainability strategies in traditional Gaziantep residences: a critical report on historical development**
Anac M., MERT CÜCE A. P., CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.19, pp.245-256, 2024 (SCI-Expanded)
- LI. **Impact of support pillars geometry on thermal insulation performance of vacuum glazing: CFD research and exergy analysis**
MERT CÜCE A. P., CÜCE E., ŞEN H.
INTERNATIONAL JOURNAL OF EXERGY, no.3-4, 2024 (SCI-Expanded)
- LII. **Thermal comfort inside a gable-roofed metallic shed in a higher educational institution: a case study and detailed analysis**
Jaffar A. A., Pandiaraj S., Govindasamy K., Sharma K., Muthusamy S., Siddiqui M. I. H., CÜCE E., Shah M. A.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.19, pp.1660-1673, 2024 (SCI-Expanded)
- LIII. **Alumina and titanium nanoparticles to diesel-Guizotia abyssinica (L.) biodiesel blends on MFVCR engine performance and emissions**
Abishek M. S., Kachhap S., Rajak U., Verma T. N., Singh T. S., Shaik S., CÜCE E., Alwetaishi M.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.61, 2024 (SCI-Expanded)
- LIV. **Thermal and energy analysis of a novel solar updraft tower design with divergent chimney and convergent collector concept: CFD analysis with experimental validation**
MERT CÜCE A. P., Saxena A., CÜCE E., Kontoleon K. J., Oztekin E. K., Shaik S., Guo S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.19, pp.714-722, 2024 (SCI-Expanded)
- LV. **Analysing the impact of insulating material properties on the thermal performance of a novel composite precast concrete walling system exposed to elevated temperatures**
Kontoleon K., Bakas I., CÜCE E., Saboor S., Torres M., Georgiadis-Filikas K., Kotsovinos P., Efthymiou E., Tsikaloudaki K.
CONSTRUCTION AND BUILDING MATERIALS, vol.398, pp.132501, 2023 (SCI-Expanded)
- LVI. **Fast Pyrolysis of Tea Bush, Walnut Shell, and Pine Cone Mixture: Effect of Pyrolysis Parameters on Pyrolysis Crop Yields**
KAR T., Kaygusuz Ö., Güney M. Ş., CÜCE E., KELEŞ S., Shaik S., Owolabi A. B., Nsafon B. E. K., Ogunsua J. M., Huh J.
SUSTAINABILITY, vol.15, no.18, 2023 (SCI-Expanded)
- LVII. **Experimental performance assessment of a novel insulation plaster as an energy-efficient retrofit solution for external walls: A key building material towards low/zero carbon buildings**
Cüce E., Mert Cüce A. P., Alvur E., Yilmaz Y. N., Saboor S., Ustabaş İ., Linul E., Asif M.
CASE STUDIES IN THERMAL ENGINEERING, vol.49, 2023 (SCI-Expanded)
- LVIII. **Experimental analysis on the impacts of soil deposition and bird droppings on the thermal performance of photovoltaic panels**
Shaik S., Vigneshwaran P., Roy A., Kontoleon K., Mazzeo D., CÜCE E., Saleel C., Alwetaishi M., Khan S., Gürel A., et al.
CASE STUDIES IN THERMAL ENGINEERING, vol.48, pp.103128, 2023 (SCI-Expanded)
- LIX. **Extensive Analysis of a Reinvigorated Solar Water Heating System Using Low-Density Polyethylene Glazing**
Duraivel B., Muthuswamy N., Shaik S., CÜCE E., Owolabi A., Li H., Kavgiç M.
ENERGIES, vol.16, no.16, pp.5902, 2023 (SCI-Expanded)
- LX. **Integration of smart grid with renewable energy sources: Opportunities and challenges-A comprehensive review**
Kataray T., Nitesh B., Yarram B., Sinha S., CÜCE E., Shaik S., Vigneshwaran P., Roy A.

- SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.58, pp.103363, 2023 (SCI-Expanded)
- LXI. **Experimental and theoretical examination of the energy performance and CO₂ emissions of room air conditioners utilizing natural refrigerant R290 as a substitute for R22**
Shaik S., Gorantla K., Shaik S., Afzal A., Rajhi A., CÜCE E.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.148, pp.8223-8241, 2023 (SCI-Expanded)
- LXII. **Thermodynamic Performance Analysis of a Low-Cost, Recycled and Energy-Efficient Solar Air Heater with Waste Beverage Cans: An Experimental Research**
Mert Cüce A. P., Saxena A., Cüce E., Yilmaz Y. N., Shaik S., Guo S.
JOURNAL OF THERMAL SCIENCE, vol.32, no.4, pp.1657-1670, 2023 (SCI-Expanded)
- LXIII. **Renewable energy potential towards attainment of net-zero energy buildings status-A critical review**
Christopher S., Vikram M., Bakli C., Thakur A., Ma Y., Ma Z., Xu H., MERT CÜCE A. P., CÜCE E., Singh P.
JOURNAL OF CLEANER PRODUCTION, vol.405, pp.136942, 2023 (SCI-Expanded)
- LXIV. **Experimental studies of latent heat storage based solar air heater for space heating: A comparative analysis**
Saxena A., CÜCE E., Singh D., Sethi M., MERT CÜCE A. P., Sagade A., Kumar A.
JOURNAL OF BUILDING ENGINEERING, vol.69, pp.106282, 2023 (SCI-Expanded)
- LXV. **Solar Salt with Carbon Nanotubes as a Potential Phase Change Material for High-Temperature Applications: Investigations on Thermal Properties and Chemical Stability**
Vigneshwaran P., Shaik S., Suresh S., Abbas M., Saleel C., CÜCE E.
ACS OMEGA, vol.8, no.20, pp.17563-17572, 2023 (SCI-Expanded)
- LXVI. **Hybrid solar, wind, and energy storage system for a sustainable campus: A simulation study**
Muller D., Selvanathan S., CÜCE E., Kumarasamy S.
SCIENCE AND TECHNOLOGY FOR ENERGY TRANSITION, vol.78, pp.1-12, 2023 (SCI-Expanded)
- LXVII. **An experimental case study on the effect of condenser geometry in a refrigerator: Sub-cooling and coefficient of performance issues**
Borikar S. A., Borikar D. A., Panchal H., CÜCE E., DALKILIÇ A. S., Alrubaie A. J., Jaber M. M.
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.148, pp.75-82, 2023 (SCI-Expanded)
- LXVIII. **Characterization of biodiesel based on plastic pyrolysis oil (PPO) and coconut oil: Performance and emission analysis using RSM-ANN approach**
Afzal A., Roy R., Koshy C., Alex Y., Abbas M., CÜCE E., Razak R., Shaik S., Saleel C.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.56, pp.103046, 2023 (SCI-Expanded)
- LXIX. **Thermal insulation and mechanical properties of a specially improved insulation plaster under freezing-thawing and high-temperature conditions**
Ustabas I., CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.18, pp.682-688, 2023 (SCI-Expanded)
- LXX. **Detection, location, and diagnosis of different faults in large solar PV system-a review**
Venkatakrishnan G., Rengaraj R., Tamilselvi S., Harshini J., Sahoo A., Saleel C., Abbas M., CÜCE E., Jazlyn C., Shaik S., et al.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.18, pp.659-674, 2023 (SCI-Expanded)
- LXXI. **Dynamo script and a BIM-based process for measuring embodied carbon in buildings during the design phase**
Alzara M., Yosri A., Alruwaili A., CÜCE E., Eldin S., Ehab A.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.18, pp.943-955, 2023 (SCI-Expanded)
- LXXII. **Weather Impact on Solar Farm Performance: A Comparative Analysis of Machine Learning Techniques**
Gopi A., Sharma P., Sudhakar K., Ngui W., Kirpichnikova I., CÜCE E.
SUSTAINABILITY, vol.15, no.1, pp.439, 2023 (SCI-Expanded)
- LXXIII. **Thermal sensitivity and potential cooling-related energy saving of masonry walls through the lens of solar heat-rejecting paints at varying orientations**
Kontoleon K. J., Saboor S., Mazzeo D., Ahmad J., CÜCE E.
APPLIED ENERGY, vol.329, 2023 (SCI-Expanded)

- LXXIV. **Heat Transfer Studies on Solar Parabolic trough Collector Using Corrugated Tube Receiver with Conical Strip Inserts**
Venkatesaperumal R., Jafar K., Elumalai P., Abbas M., CÜCE E., Shaik S., Saleel C.
SUSTAINABILITY, vol.15, no.1, pp.378, 2023 (SCI-Expanded)
- LXXV. **Performance evaluation of using evacuated tubes solar collector, perforated fins, and pebbles in a solar still - experimental study and CO₂ mitigation analysis**
Panchal H., Sohani A., Van Nguyen N., Shoeibi S., Khiadani M., Huy P., Hoseinzadeh S., Kabeel A., Shaik S., Cuce E.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.5, pp.11769-11784, 2023 (SCI-Expanded)
- LXXVI. **Optimization of Performance and Emission Characteristics of the CI Engine Fueled with Preheated Palm Oil in Blends with Diesel Fuel**
Mohamed I. S., Venkatesan E. P., Parthasarathy M., Medapati S. R., Abbas M., CÜCE E., Shaik S.
SUSTAINABILITY, vol.14, no.23, 2022 (SCI-Expanded)
- LXXVII. **Experimental and parametric studies on the effect of waste cooking oil methyl ester with diesel fuel in compression ignition engine**
Rajak U., Singh T. S., Verma T. N., Chaurasiya P. K., Shaik S., Afzal A., CÜCE E., Rajhi A. A., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.53, 2022 (SCI-Expanded)
- LXXVIII. **Effect of using hybrid nanofluids as a coolant on the thermal performance of portable thermoelectric refrigerators**
MERT CÜCE A. P., CÜCE E., Guclu T., Shaik S., Alshahrani S., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.53, 2022 (SCI-Expanded)
- LXXIX. **Heat Storage and Release Performance of Cascade Phase Change Units for Solar Heating in a Severe Cold Region of China**
Zhang L., Liu Z., Jin G., CÜCE E., Jin J., Guo S.
ENERGIES, vol.15, no.19, 2022 (SCI-Expanded)
- LXXX. **Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review**
Mojumder M. R. H., Hasanuzzaman M., CÜCE E.
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.24, no.7, pp.1987-2009, 2022 (SCI-Expanded)
- LXXXI. **Performance Evaluation of Solar Chimney Power Plants with Bayburt Stone and Basalt on the Ground as Natural Energy Storage Material**
MERT CÜCE A. P., CÜCE E., Alshahrani S., Saboor S., Sen H., Veza I., Saleel C. A.
SUSTAINABILITY, vol.14, no.17, 2022 (SCI-Expanded)
- LXXXII. **UV coated acrylics as a substitute for generic glazing in buildings of Indian climatic conditions: Prospective for energy savings, CO₂ abatement, and visual acceptability**
Maduru V. R., Shaik S., CÜCE E., Afzal A., Panchal H., MERT CÜCE A. P.
ENERGY AND BUILDINGS, vol.268, 2022 (SCI-Expanded)
- LXXXIII. **Perovskite Solar Cells: A Review of the Recent Advances**
Roy P., Ghosh A., Barclay F., Khare A., CÜCE E.
COATINGS, vol.12, no.8, 2022 (SCI-Expanded)
- LXXXIV. **A thermodynamic review on solar ponds**
Saxena A., CÜCE E., Singh D. B., MERT CÜCE A. P., Gupta P., Suryavanshi A., Farrokhi M., El-Sebaei A. A.
SOLAR ENERGY, vol.242, pp.335-363, 2022 (SCI-Expanded)
- LXXXV. **Thermal Performance Study of Solar Air Dryers for Cashew Kernel: A Comparative Analysis and Modelling Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN)**
Huddar V. B., Razak A., CÜCE E., Gadwal S., Alwetaishi M., Afzal A., Saleel C. A., Shaik S.
INTERNATIONAL JOURNAL OF PHOTOENERGY, vol.2022, 2022 (SCI-Expanded)
- LXXXVI. **A novel latent heat storage unit by introducing jet breakup of phase change material**
Tian Y., Zheng M., Fan D., Zhang Y., Zhao J., Jin G., Wu W., CÜCE E., Guo S.
JOURNAL OF ENERGY STORAGE, vol.49, 2022 (SCI-Expanded)
- LXXXVII. **A thermodynamic review on solar stills**
Saxena A., CÜCE E., Kabeel A. E., Abdelgaied M., Goel V.

- SOLAR ENERGY, vol.237, pp.377-413, 2022 (SCI-Expanded)
- LXXXVIII. **Floating PVs in Terms of Power Generation, Environmental Aspects, Market Potential, and Challenges**
CÜCE E., MERT CÜCE A. P., Saboor S., Ghosh A., Sheikhejad Y.
SUSTAINABILITY, vol.14, no.5, 2022 (SCI-Expanded)
- LXXXIX. **Assessment of the Thermo-Hydraulic Efficiency of an Indoor-Designed Jet Impingement Solar Thermal Collector Roughened with Single Discrete Arc-Shaped Ribs**
Kumar R., CÜCE E., Kumar S., Thapa S., Gupta P., Goel B., Saleel C. A., Shaik S.
SUSTAINABILITY, vol.14, no.6, 2022 (SCI-Expanded)
- XC. **Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances**
CÜCE E., MERT CÜCE A. P., Carlucci S., Sen H., Sudhakar K., Hasanuzzaman M., Daneshazarian R.
SUSTAINABILITY, vol.14, no.3, 2022 (SCI-Expanded)
- XCI. **Applications of solar PV tree systems with different design aspects and performance assessment**
MERT CÜCE A. P., Saxena A., CÜCE E., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.266-278, 2022 (SCI-Expanded)
- XCII. **A comprehensive review on recent advancements in cooling of solar photovoltaic systems using phase change materials**
Sheik M. A., Aravindan M. K., CÜCE E., Dasore A., Rajak U., Shaik S., Manokar A. M., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.768-783, 2022 (SCI-Expanded)
- XCIII. **The influence of exhaust gas recirculation on the characteristics of compression ignition engines powered by tamanu methyl ester**
Senthilkumar P. B., Parthasarathy M., Afzal A., Saleel C. A., CÜCE E., Saboor S., Gera T.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.856-869, 2022 (SCI-Expanded)
- XCIV. **Performance assessment of solar chimney power plants with natural thermal energy storage materials on ground: CFD analysis with experimental validation**
Cüce E., Saxena A., Mert Cüce A. P., Sen H., Eroğlu H., Selvanathan S. P., Sudhakar K., Hasanuzzaman M.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.752-759, 2022 (SCI-Expanded)
- XCV. **TiO₂ nano-coated thin film PV glazing with superior thermal resistance, self-cleaning, electricity generation and adaptive optical control**
CÜCE E., MERT CÜCE A. P., Riffat S.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.130-139, 2022 (SCI-Expanded)
- XCVI. **Solar farm: siting, design and land footprint analysis**
Sukumaran S., Sudhakar K., Yusop A. F., Kirpichnikova I., CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.1478-1491, 2022 (SCI-Expanded)
- XCVII. **Dependence of electrical power output on collector size in Manzanares solar chimney power plant: an investigation for thermodynamic limits**
CÜCE E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.17, pp.1223-1231, 2022 (SCI-Expanded)
- XCVIII. **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, 2021 (SCI-Expanded)
- XCIX. **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, 2021 (SCI-Expanded)
- C. **Performance assessment of solar chimney power plants with the impacts of divergent and convergent chimney geometry**
CÜCE E., Saxena A., MERT CÜCE A. P., Sen H., Guo S., Sudhakar K.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.16, no.3, pp.704-714, 2021 (SCI-Expanded)
- CI. **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, 2021 (SCI-Expanded)
- CII. **Energy analysis of utility-scale PV plant in the rain-dominated tropical monsoon climates**
Gopi A., Sudhakar K., Ngui W. K., Kirpichnikova I. M., CÜCE E.
CASE STUDIES IN THERMAL ENGINEERING, vol.26, 2021 (SCI-Expanded)
- CIII. **Hybrid Floating Solar Plant Designs: A Review**
Solomin E., Sirotkin E., CÜCE E., Selvanathan S. P., Kumarasamy S.
ENERGIES, vol.14, no.10, 2021 (SCI-Expanded)
- CIV. **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, 2021 (SCI-Expanded)
- CV. **Determining Optimum Tilt Angle for 1 MW Photovoltaic System at Sukkur, Pakistan**
Memon Q. A., Rahimoon A. Q., Ali K., Shaikh M. F., Shaikh S. A., CÜCE E.
INTERNATIONAL JOURNAL OF PHOTOENERGY, 2021 (SCI-Expanded)
- CVI. **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 (SCI-Expanded)
- CVII. **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 (SCI-Expanded)
- CVIII. **Enhanced performance figures of solar cookers through latent heat storage and low-cost booster reflectors**
Cuce P. M., Kolaylı S., Cuce E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.15, no.3, pp.427-433, 2020 (SCI-Expanded)
- CIX. **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 (SCI-Expanded)
- CX. **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 (SCI-Expanded)
- CXI. **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 (SCI-Expanded)
- CXII. **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 (SCI-Expanded)
- CXIII. **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 (SSCI)
- CXIV. **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 (SCI-Expanded)
- CXV. **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 (SCI-Expanded)

- CXVI. **Thermoelectric Coolers (TECs): From Theory to Practice**
Guclu T., Cuce E.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.1, pp.211-230, 2019 (SCI-Expanded)
- CXVII. **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 (SCI-Expanded)
- CXVIII. **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 (SCI-Expanded)
- CXIX. **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 (SCI-Expanded)
- CXX. **Green roofs and facades: A comprehensive review**
Besir A. B., Cuce E.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.82, pp.915-939, 2018 (SCI-Expanded)
- CXXI. **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 (SCI-Expanded)
- CXXII. **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 (SCI-Expanded)
- CXXIII. **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 (SCI-Expanded)
- CXXIV. **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 (SCI-Expanded)
- CXXV. **Thermal regulation impact of green walls: An experimental and numerical investigation**
Cuce E.
APPLIED ENERGY, vol.194, pp.247-254, 2017 (SCI-Expanded)
- CXXVI. **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 (SCI-Expanded)
- CXXVII. **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 (SCI-Expanded)
- CXXVIII. **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 (SCI-Expanded)
- CXXIX. **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 (SCI-Expanded)
- CXXX. **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 (SCI-Expanded)
- CXXXI. **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 (SCI-Expanded)
- CXXXII. **Hava sızdırmazlığının konvansiyonel pencerelerin ortalama ısı yalıtım performansındaki rolü**
CÜCE E.
Dicle Üniversitesi Mühendislik Fakültesi, vol.8, no.1, pp.159-174, 2016 (SCI-Expanded)
- CXXXIII. **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 (SCI-Expanded)
- CXXXIV. **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 (SCI-Expanded)
- CXXXV. **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 (SCI-Expanded)
- CXXXVI. **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 (SCI-Expanded)
- CXXXVII. **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 (SCI-Expanded)
- CXXXVIII. **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 (SCI-Expanded)
- CXXXIX. **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 (SCI-Expanded)
- CXL. **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 (SCI-Expanded)
- CXLI. **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 (SCI-Expanded)
- CXLII. **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 (SCI-Expanded)
- CXLIII. **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 (SCI-Expanded)
- CXLIV. **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 (SCI-Expanded)

- CXLV. **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 (SCI-Expanded)
- CXLVI. **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 (SCI-Expanded)
- CXLVII. **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 (SCI-Expanded)
- CXLVIII. **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 (SCI-Expanded)
- CXLIX. **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 (SCI-Expanded)
- CL. **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 (SCI-Expanded)
- CLI. **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 (SCI-Expanded)
- CLII. **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 (SCI-Expanded)
- CLIII. **A comprehensive review on solar cookers**
Cuce E., Cuce P. M.
APPLIED ENERGY, vol.102, pp.1399-1421, 2013 (SCI-Expanded)
- CLIV. **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 (SCI-Expanded)
- CLV. **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 (SCI-Expanded)
- CLVI. **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 (SCI-Expanded)
- CLVII. **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 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fire detection and anti-fire system to enhance food security: A concept of smart agriculture systems-based IoT and embedded systems with machine-to-machine protocol**
Morchid A., Alblushi I. G. M., Khalid H. M., El Alami R., Said Z., Qjidaa H., CÜCE E., Muyeen S. M., Jamil M. O.
SCIENTIFIC AFRICAN, vol.27, 2025 (ESCI)
- II. **Structural and Mechanical Performance Characteristics of Construction Plasters with Different Material Compositions and Advanced Geopolymerization**
Kaptan M., Ustabaş İ., Cüce E., Mert Cüce A. P., Alvur E., Saxena A., Alshahranı S., Bouabıdı A.
JORDAN JOURNAL OF CIVIL ENGINEERING, vol.19, no.1, pp.145-163, 2025 (ESCI)
- III. **Performance analysis of solar chimney power plant with waste heat integration on the ground**
MERT CÜCE A. P., ŞEN H., CÜCE E.
International Journal of Ambient Energy, vol.46, no.1, 2025 (Scopus)
- IV. **Optical Fiber Technology for Efficient Daylighting and Thermal Control: A Sustainable Approach for Buildings**
Udhwani L., Soni A., CÜCE E., Kumarasamy S.
ENG, vol.5, no.4, pp.2680-2694, 2024 (ESCI)
- V. **Market Drivers in India's Smart Grid: Responsibilities and Roles of Stakeholders**
Satapathy A. S., Sahoo S. K., Mohanty A., Fouad Y., Soudagar M. E. M., Cüce E.
Energy Engineering, vol.2024, pp.55105, 2024 (Scopus)
- VI. **Performance assessment of photovoltaic and photovoltaic/thermal systems under the impact of shadowing**
Cüce E., Mert Cüce A. P.
Gazi Mühendislik Bilimleri Dergisi, vol.10, no.2, pp.206-224, 2024 (Peer-Reviewed Journal)
- VII. **The Potential and Challenges of Bim in Enhancing Energy Efficiency in Existing Buildings: A Comprehensive Review**
Alvur E., Anaç M., Mert Cüce A. P., Cüce E.
SUSTAINABLE AND CLEAN BUILDINGS, vol.1, no.1, pp.42-65, 2024 (Peer-Reviewed Journal)
- VIII. **Impact of Ground Heat Source Addition on Main Performance Parameters of Solar Chimney Power Plants: A Numerical Study**
Cüce E., Omer S.
Journal of Solar Energy Research Updates, vol.11, pp.45-54, 2024 (Peer-Reviewed Journal)
- IX. **Experimental Investigation of Internal Aerogel Insulation Towards Low/Zero Carbon Buildings: A Comprehensive Thermal Analysis for a UK Building**
Cüce E., Mert Cüce A. P., Wood C., Gillott M., Riffat S.
Sustainable and Clean Buildings, vol.1, no.1, pp.1-22, 2024 (Peer-Reviewed Journal)
- X. **Internal Or External Thermal Superinsulation Towards Low/Zero Carbon Buildings? A Critical Report**
Mert Cüce A. P., Cüce E., Alvur E.
Gazi Mühendislik Bilimleri Dergisi, vol.9, no.3, pp.435-442, 2023 (Peer-Reviewed Journal)
- XI. **Rotary desiccant wheel systems: A review**
Cüce E., Mert Cüce A. P., Yılmaz Y. N., Alvur E.
Turkish Journal of Electromechanics and Energy, vol.8, no.2, pp.56-65, 2023 (Peer-Reviewed Journal)
- XII. **Global technological advancement and challenges of glazed window, facade system and vertical greenery-based energy savings in buildings: A comprehensive review**
Akram M., Hasannuzaman M., Cuce E., Cuce P.
ENERGY AND BUILT ENVIRONMENT, vol.4, pp.206-226, 2023 (Scopus)
- XIII. **Performance Analysis of Fresnel Lens Driven Hot Water/Steam Generator for Domestic and Industrial Use: A CFD Research**
Mert Cüce A. P., Cüce E.
Hittite Journal of Science and Engineering, vol.10, no.1, pp.1-9, 2023 (Peer-Reviewed Journal)

- XIV. **New approaches in solar chimney power plants: Recent applications of hybrid power production**
ŞEN H., MERT CÜCE A. P., CÜCE E.
Recep Tayyip Erdogan Üniversitesi, vol.3, pp.125-135, 2022 (Peer-Reviewed Journal)
- XV. **The effect of nanofluid usage on electricity consumption in thermoelectric refrigeration application: An experimental study**
MERT CÜCE A. P., GÜÇLÜ T., CÜCE E.
Gazi Mühendislik Bilimleri Dergisi, vol.8, no.2, pp.228-236, 2022 (Peer-Reviewed Journal)
- XVI. **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, vol.43, no.1, pp.4406-4415, 2022 (ESCI)
- XVII. **Toplayıcı Yarıçapı ve Yüksekliğinin Güneş Bacası Güç Santrallerinin Performans Parametreleri Üzerine Etkileri: Manzanares, İspanya için Bir Vaka Çalışması**
ŞEN H., MERT CÜCE A. P., CÜCE E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, 2021 (Peer-Reviewed Journal)
- XVIII. **Impact of Tower Diameter on Power Output in Solar Chimney Power Plants**
MERT CÜCE A. P., ŞEN H., CÜCE E.
Gazi Mühendislik Bilimleri Dergisi, vol.7, 2021 (Peer-Reviewed Journal)
- XIX. **A perspective of COVID 19 impact on global economy, energy and environment**
Priya S. S., Cüce E., Sudhakar K.
INTERNATIONAL JOURNAL OF SUSTAINABLE ENGINEERING, vol.14, no.6, pp.1290-1305, 2021 (ESCI)
- XX. **Energy Saving Aspects of Green Facades: Current Applications and Challenges**
MERT CÜCE A. P., CÜCE E., GÜÇLÜ T., DEMİRCİ V.
Green Building & Construction Economics, 2021 (Peer-Reviewed Journal)
- XXI. **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 (Peer-Reviewed Journal)
- XXII. **A thorough performance assessment of solar chimney power plants: Case study for Manzanares**
Cuce E., Cuce P., Sen H.
Cleaner Engineering and Technology, vol.1, pp.1-11, 2020 (Scopus)
- XXIII. **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 (Peer-Reviewed Journal)
- XXIV. **Improving thermal resistance of lightweight concrete hollow bricks: A numerical optimisation research for a typical masonry unit**
CÜCE E., CUCE P. M., BESİR A. B.
Journal of Energy Systems, vol.4, no.3, pp.121-144, 2020 (Scopus)
- XXV. **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 (Peer-Reviewed Journal)
- XXVI. **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 (ESCI)
- XXVII. **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 (Scopus)
- XXVIII. **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 (Peer-Reviewed Journal)

- XXIX. **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 (Peer-Reviewed Journal)
- XXX. **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 (Peer-Reviewed Journal)
- XXXI. **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 (ESCI)
- XXXII. **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 (Scopus)
- XXXIII. **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 (ESCI)
- XXXIV. **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 (Peer-Reviewed Journal)
- XXXV. **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 (Peer-Reviewed Journal)
- XXXVI. **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 (Peer-Reviewed Journal)
- XXXVII. **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 (Scopus)
- XXXVIII. **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 (Peer-Reviewed Journal)
- XXXIX. **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 (Peer-Reviewed Journal)
- XL. **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 (ESCI)
- XLI. **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 (ESCI)
- XLII. **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 (ESCI)

- XLIII. **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 (ESCI)
- XLIV. **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 (Peer-Reviewed Journal)
- XLV. **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 (ESCI)
- XLVI. **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 (ESCI)
- XLVII. **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 (Peer-Reviewed Journal)
- XLVIII. **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, no.2, pp.159-165, 2012 (ESCI)
- XLIX. **Effects of passive cooling on performance of silicon photovoltaic cells**
Cuce E., BALI T., Sekucoglu S. A.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, no.4, pp.299-308, 2011 (ESCI)
- L. **A review on hybrid photovoltaic/thermal collectors and systems**
Riffat S. B., Cuce E.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.6, no.3, pp.212-241, 2011 (ESCI)

Books

- I. **Methods of fabrication of bionanocomposites**
MERT CÜCE A. P., CÜCE E., GÜÇLÜ T.
in: Bionanocomposites for Food Packaging Applications, Shakeel Ahmed, Editor, Elsevier, pp.7-29, 2022
- II. **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
- III. **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
- IV. **Low/Zero-Carbon Buildings for a Sustainable Future**
CÜCE E., Beşir A. B., MERT CÜCE A. P.
in: Low Carbon Transition, Valter Silva, Editor, Intech Open University Press, London, pp.29-50, 2018
- V. **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
- VI. **Toward thermal superinsulation technologies in buildings: Latest developments in glazing and building fabric**

CÜCE E.

Lap Lambert Academic Publishing, Saarbrücken, Germany, 2015

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Innovative strategies for enhancing thermal resistance and structural integrity of sustainable construction materials**
CÜCE E., MERT CÜCE A. P., ALVUR E.
International 6th Bursa Scientific Researches Congress, Bursa, Turkey, 24 - 26 December 2024, (Full Text)
- II. **Experimental investigation of thermal enhancement exhibited by bamboo fibre substitution in briquette mortar**
MERT CÜCE A. P., CÜCE E., ALVUR E.
21st International Conference on Sustainable Energy Technologies, Shanghai, China, 12 - 14 August 2024, pp.125-130, (Full Text)
- III. **Thermal Resistance Analysis Of Bamboo Fibre Added Briquettes: An Experimental Research**
CÜCE E., MERT CÜCE A. P., ALVUR E.
Seventh International Hasankeyf Scientific Research and Innovation Congress, Batman, Turkey, 23 - 24 February 2024, pp.292-300, (Full Text)
- IV. **THERMAL RESISTANCE ANALYSIS OF BAMBOO FIBRE ADDED BRIQUETTES: AN EXPERIMENTAL RESEARCH**
Cüce E., Mert Cüce A. P., Alvur E.
ISARC INTERNATIONAL SCIENCE AND ART RESEARCH, 23 - 24 February 2024, pp.292-300, (Full Text)
- V. **Thermal insulation performance assessment of UK dwellings through co-heating test methodology: A critical review**
Cüce E., Mert Cüce A. P., Alvur E.
Twentieth International Conference on Sustainable Energy Technologies, Nottingham, England, 15 - 17 August 2023, vol.1, pp.361-364, (Full Text)
- VI. **Analysis of Strength Data of Building Elements Reinforced with Special Insulation Plaster Under High Temperature Conditions**
Alvur E., Mert Cüce A. P., Ustabaş İ., Yılmaz Y. N., Cüce E.
4th International Congress of Turkish World Educational Sciences and Social Sciences, Antalya, Turkey, 30 November - 03 December 2023, (Summary Text)
- VII. **MODERN INSULATION PLASTER FOR LOW/ZERO CARBON BUILDINGS: AN EXPERIMENTAL RESEARCH**
Mert Cüce A. P., Alvur E., Cüce E., Yılmaz Y. N.
International Turkish World Engineering and Science Congress, Antalya, Turkey, 30 November - 03 December 2023, pp.759-765, (Full Text)
- VIII. **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, (Full Text)
- IX. **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, (Full Text)
- X. **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, (Full Text)
- XI. **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, (Full Text)

- XII. **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, (Full Text)
- XIII. **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, (Full Text)
- XIV. **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, (Full Text)
- XV. **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, (Full Text)
- XVI. **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, (Full Text)
- XVII. **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, (Full Text)
- XVIII. **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, (Full Text)
- XIX. **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, (Full Text)
- XX. **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, (Full Text)
- XXI. **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, (Full Text)
- XXII. **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, (Full Text)
- XXIII. **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, (Full Text)
- XXIV. **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, (Full

Text)

- XXV. **A new technique for sorting of metals in scrap industry**
CUCE P. M., CÜCE E., GUCLU T., BESIR A. B., GOKCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.568, (Full Text)
- XXVI. **Global necessity to nearly zero-energy buildings (nZEB)**
BESIR A. B., GUCLU T., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.661, (Full Text)
- XXVII. **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, (Full Text)
- XXVIII. **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, (Full Text)
- XXIX. **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, (Full Text)
- XXX. **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, (Full Text)
- XXXI. **U-value analysis of argon filled double glazed windows**
CÜCE E., CUCE P. M., BESIR A. B., GUCLU T.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.633, (Full Text)
- XXXII. **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, Turkey, 26 - 29 April 2018, pp.1, (Full Text)
- XXXIII. **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, Turkey, 26 - 29 April 2018, pp.1, (Full Text)
- XXXIV. **Thermal performance assessment of thermoelectric coolers for micro space cooling**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017, (Summary Text)
- XXXV. **The comparison of greenery systems in terms of energy saving**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017, (Summary Text)
- XXXVI. **The comparison of greenery systems in terms of energy saving**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017, (Full Text)
- XXXVII. **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, Turkey, 7 - 09 December 2017, (Full Text)
- XXXVIII. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
OZTEKİN E. K., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017, pp.772-774, (Full Text)
- XXXIX. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
ÖZTEKİN E. K., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017, (Full Text)
- XL. **Thermoelectric coolers (TECs) for potential air-conditioning applications in buildings**
GUCLU T., CUCE P. M., BESIR A. B., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.1, (Full Text)

- XLII. Material selection for an optimized fin geometry through longitudinal perforations by using analytical hierarchy process**
 OZTEKIN E. K., CÜCE E.
 First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.1, (Full Text)
- XLIII. Greenery systems as an energy-efficient retrofit solution toward 2030 and 2050 zero-carbon building targets**
 BESIR A. B., CUCE P. M., GUCLU T., CÜCE E.
 First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.143, (Full Text)
- XLIV. Smart solutions in heating, ventilation and air-conditioning (HVAC) systems toward low/zero carbon buildings**
 CUCE P. M., CÜCE E.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.284, (Full Text)
- XLV. 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, pp.625-631, (Full Text)
- XLVI. Reliability of single-diode mathematical models in parameter extraction of PV cells: An experimental and numerical investigation**
 CUCE P. M., CÜCE E.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1467, (Full Text)
- XLVII. 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, (Full Text)
- XLVIII. 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, (Full Text)
- XLIX. 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, pp.1469, (Full Text)
- L. 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, (Full Text)
- L. Buildings of future Smart low cost and energy efficient solutions**
 CÜCE E., CUCE P. M.
 International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering (ICIMECE) Annual Conference on Industrial and System Engineering (ACISE), 6-7 October 2016, Yogyakarta, Indonesia, 6 - 07 October 2016, (Full Text)
- LI. 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, (Full Text)
- LII. Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule**

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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, (Full Text)

- LIII. **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, (Full Text)
- LIV. **Cost-effective and energy-efficient strategies for greenhouse systems: A comprehensive review**
CÜCE E., CÜCE P. M.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.1, (Full Text)
- LV. **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, (Full Text)
- LVI. **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, (Full Text)
- LVII. **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, (Full Text)
- LVIII. **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, (Full Text)
- LIX. **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, (Full Text)
- LX. **Cooling applications with renewable energy powered resorption systems Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom**
PASTAKKAYA B., CÜCE E., CUCE P. M.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015, vol.2, pp.58-64, (Full Text)
- LXI. **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, (Full Text)
- LXII. **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, (Full Text)
- LXIII. **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, (Full Text)

- LXIV. **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, (Full Text)
- LXV. **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, (Full Text)
- LXVI. **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, (Full Text)
- LXVII. **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, (Full Text)
- LXVIII. **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, (Full Text)
- LXIX. **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, (Full Text)
- LXX. **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, (Full Text)
- LXXI. **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, (Full Text)
- LXXII. **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, (Full Text)
- LXXIII. **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, (Full Text)
- LXXIV. **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, (Full Text)

- LXXV. **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, (Full Text)
- LXXVI. **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, (Full Text)
- LXXVII. **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, (Full Text)
- LXXVIII. **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, (Full Text)
- LXXIX. **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, (Full Text)
- LXXX. **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, (Full Text)
- LXXXI. **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, (Full Text)
- LXXXII. **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, (Full Text)
- LXXXIII. **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, (Full Text)
- LXXXIV. **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, (Full Text)
- LXXXV. **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, (Full Text)
- LXXXVI. **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, (Full Text)
- LXXXVII. **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, (Full Text)
- LXXXVIII. **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, (Full Text)
- LXXXIX. **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, (Full Text)
- XC. **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, (Full Text)
- XCI. **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, (Full Text)
- XCII. **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, (Full Text)

Funded Projects

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

CÜCE E., TÜBİTAK 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 International Funding Programs, Thermodynamic analysis of the effectiveness of different types of PV modules for wet conditions, 2008 - 2009

Activities in Scientific Journals

JOURNAL OF ENERGY STORAGE, Special Issue Editor, 2023 - Continues

APPLIED ENERGY, Committee Member, 2022 - Continues

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, Special Issue Editor, 2022 - Continues

ENERGY AND BUILDINGS, Committee Member, 2022 - Continues

ENERGY AND BUILDINGS, Special Issue Editor, 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

Metrics

Publication: 308
Citation (WoS): 5482
Citation (Scopus): 6813
H-Index (WoS): 41
H-Index (Scopus): 46

Congress and Symposium Activities

CSIR-CBRI International Experts Lecture Series, Invited Speaker, Haridwar, India, 2025
21st International Conference on Sustainable Energy Technologies, Invited Speaker, Shanghai, China, 2024
International Conference on Design, Materials and Manufacturing Engineering for Sustainable Development (ICDMMESD 2024), Invited Speaker, Dehra-Dun, India, 2024
The 6th International Conference on Alternative Fuels, Energy & Environment: Future and Challenges (ICAFEE 2023), Invited Speaker, Kayseri, Turkey, 2023
Renewable Energy Technologies for Sustainable Systems, Invited Speaker, Velluru, India, 2023
7th Session of Global Sustainability Lecture Series, Invited Speaker, Kuala-Lumpur, Malaysia, 2022
Third International Conference on Sustainable Energy Solutions for a Better Tomorrow, Invited Speaker, Chennai, India, 2022
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, United Kingdom, 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

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., Mert Cüce A. P., Guclu T., Besir A. B., Best Paper Award, Thermal Science, January 2023

Cüce E., Saxena A., Mert Cüce A. P., Sen H., Guo S., Sudhakar K., Best Paper Award, Oxford University Press, August 2022
Cüce E., TÜBA-Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP), Türkiye Bilimler Akademisi, December 2021
CÜCE E., The Scientist of the Year Award - Yılın Bilim İnsanı Ödülü, Bilim Kahramanları Derneği, April 2018
CÜCE E., MERT CÜCE A. P., 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., MERT CÜCE A. P., 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
CÜCE E., Scientific Publication Award – First Place. University of Bayburt, 2016, University of Bayburt, May 2016