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Education Information

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

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

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

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

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

Foreign Languages

English, C1 Advanced

Research Areas

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

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, 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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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, vol.44, no.3, pp.1-16, 2024 (SCI-Expanded)
- IV. **Power system resilience and strategies for a sustainable infrastructure: A review**
Mohanty A., Ramasamy A., Verayiah R., Bastia S., Dash S. S., Cüce E., Khan T. Y., Soudagar M. E. M.
AEJ - ALEXANDRIA ENGINEERING JOURNAL, vol.105, pp.261-279, 2024 (SCI-Expanded)
- V. **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.306, pp.132107, 2024 (SCI-Expanded)
- VI. **Enhanced convective heat transfer with Al₂O₃-water nanofluid in a PCM-based thermal energy storage system**
Roy A., Venkataraj K., Vigneshwaran P., Saboor S., Cüce E., Saxena K. K.
JOURNAL OF ENERGY STORAGE, vol.97, pp.112853, 2024 (SCI-Expanded)
- VII. **Characteristics of the built environment in the Eastern Mediterranean and Middle East and related energy and climate policies**
Carlucci S., Lange M. A., Artopoulos G., Albuflasa H. M., Assimakopoulos M., Attia S., Azar E., Cüce E., Hajiah A., Meir I. A., et al.
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- VIII. **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. K., Gayen D. K., Asif M., Bouabidi A., Alshahrani S., Prakash C., Soudagar M. E. M.
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- IX. **Current trends and biotechnology infused cleaner production of biomaterials for the construction industry: A critical review**
Sivalinga V. D., Devarajan P., Ramalingam B., Soudagar M. E. M., Mohanavel., Khan T. M. Y., Shahapurkar K., Cüce E.
INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, vol.19, pp.833-849, 2024 (SCI-Expanded)
- X. **Contemporary Evaporative Cooling System with Indirect Interaction in Construction Implementations: A Theoretical Exploration**
Mert Cüce A. P., Cüce E., Riffat S.
BUILDINGS (BASEL), vol.14, no.4, pp.994, 2024 (SCI-Expanded)
- XI. **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)
- XII. **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. U., Siddiqui M. I. H., Cüce E.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.155, pp.107492, 2024 (SCI-Expanded)
- XIII. **Energy Consumption, Power Generation and Performance Analysis of Solar Photovoltaic Module Based Building Roof**
Wei L. J., Islam., Hasannuzaman M., Cüce E.
JOURNAL OF BUILDING ENGINEERING, vol.90, pp.109361, 2024 (SCI-Expanded)
- XIV. **Assessing performance of an external compound parabolic concentrator solar collector with cascaded latent heat thermal storage**
Satchi C. S., Muthuraman P. V., Thakur A. K., Mert Cüce A. P., Cüce E., Balavadivel R.
ENVIRONMENTAL PROGRESS AND SUSTAINABLE ENERGY, vol.43, no.2, pp.14392, 2024 (SCI-Expanded)
- XV. **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)
- XVI. **Solar Chimney Power Plants for Sustainable Air Quality Management Integrating Photocatalysis and Particulate Filtration: A Comprehensive Review**
Mandal D. K., Bose S., Biswasv N., Manna N. K., Cüce E., Benim A. C.
SUSTAINABILITY, vol.16, no.6, pp.2334, 2024 (SCI-Expanded)
- XVII. **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)
- XVIII. **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., Güçlü T., Cüce E.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.64, pp.103745, 2024 (SCI-Expanded)
- XIX. **Systematic inspection on the interplay between MoNa-induced sodium and the formation of MoSe₂ intermediate layer in CIGSe/Mo heterostructures**
Za'Abbar F. '., Doroody C., Soudagar M. E. M., Chelvanathan P., Abdullah W. S. W., Zuhd A. W. M., Cüce E., Saboor S.
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- XX. **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)
- XXI. **An overview of the existing and future state of the art advancement of hybrid energy systems based on PV-solar and wind**
Cüce E., Soudagar M. E. M., Ramesh S., Khan T. Y., Almakayeel N., Ramesh R., Ghazali N. N. N., Shelare S.
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- XXII. **Passive sustainability strategies in traditional Gaziantep residences: a critical report on historical development**
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INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, vol.19, pp.245-256, 2024 (SCI-Expanded)
- XXIII. **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., Cuce P. M., Ghosh A., Alam T., Shaik S. V.
ADVANCES IN CIVIL ENGINEERING, vol.2024, pp.1-15, 2024 (SCI-Expanded)
- XXIV. **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.
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- XXV. **Alumina and titanium nanoparticles to diesel–Guizotia abyssinica (L.) biodiesel blends on MFVCR engine performance and emissions**
Abishek M., Kachhap S., Rajak U., Verma T. N., Singh T. S., Shaik S., Cüce E., Alwetaishi M.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.61, pp.103580, 2024 (SCI-Expanded)
- XXVI. **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, pp.110471, 2024 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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.
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- XXIX. **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)
- XXX. **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.
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- XXXI. **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.
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- XXXII. **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.
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- XXXIII. **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.
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- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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.
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- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **Detection, location, and diagnosis of different faults in large solar PV system-a review**
Venkatakrisnan 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)
- XLII. **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)
- XLIII. **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, pp.8223-8241, 2023 (SCI-Expanded)
- XLIV. **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)
- XLV. **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.
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- XLVI. **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.
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- XLVII. **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)
- XLVIII. **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)
- XLIX. **Solar farm: Siting, design and land footprint analysis**
Sukumaran S., Sudhakar K., Yusop A. F., Kirpichnikova I., Cüce E.
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- L. **Optimization of performance and emission characteristics of the CI engine fueled with preheated palm oil in blends with diesel fuel**
Mohamed I. S., Venkatesan E. P., Parthasarathy M., Medapati S. R., Abbas M., Cüce E., Saboor S.
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- LI. **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)
- LII. **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, pp.7421, 2022 (SCI-Expanded)
- LIII. **Experimental and parametric studies on the effect of waste cooking oil methyl ester with diesel fuel in compression ignition engine**
Rajak U., Singh T. S., Verma T. N., Chaurasiya P. K., Saboor S., Afzal A., Cüce E., Rajhi A. A., Saleel C. A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.53, pp.102705, 2022 (SCI-Expanded)
- LIV. **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)
- LV. **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)
- LVI. **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.
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- LVII. **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.
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- LVIII. **Perovskite solar cells: A review of the recent advances**
Roy P., Ghosh A., Barclay F., Khare A., Cüce E.
COATINGS, vol.12, no.8, pp.1089, 2022 (SCI-Expanded)
- LIX. **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)
- LX. **A thermodynamic review on solar stills**
Saxena A., CÜCE E., Kabeel A. E., Abdelgaied M., Goel V.
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- LXI. **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.

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- LXII. **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.
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- LXIII. **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.
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- LXIV. **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.
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- LXV. **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)
- LXVI. **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)
- LXVII. **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)
- LXVIII. **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.
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- LXIX. **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)
- LXX. **Harmonic problems in renewable and sustainable energy systems: A comprehensive review**
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Books & Book Chapters

- 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

Refereed Congress / Symposium Publications in Proceedings

- I. **Dünden bugüne güneş bacası güç santralleri: Sistem güç çıkışına etki eden performans parametreleri**
CÜCE E., Sen H.
Avrasya 7. Uygulamalı Bilimler Kongresi, Trabzon, Turkey, 21 - 22 August 2020, pp.256-262
- II. **A review on liquid desiccant based dehumidification systems**
MERT CÜCE A. P., ÖZTÜRK K., CÜCE E.
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Turkey, 27 - 29 December 2019
- III. **A review on liquid desiccant based dehumidification systems**
Cuce P. M., Ozturk K., CÜCE E.
İkinci Uluslararası Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Turkey, 27 - 29 December 2019, pp.909-922
- IV. **Thermal performance of a novel thermoelectric refrigerator with a water to air heat exchanger and SiO₂, TiO₂ and Al₂O₃ nanofluids**
MERT CÜCE A. P., RIFFAT S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala-Lumpur, Malaysia, 20 - 22 August 2019
- V. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**
MERT CÜCE A. P., KOLAYLI S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala-Lumpur, Malaysia, 20 - 22 August 2019
- VI. **Thermal performance assessment of solar box cookers with propolis based latent heat storage and low-cost booster reflectors**
Cuce P. M., Kolayli S., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala Lumpur, Malaysia, 20 - 22 August 2019, pp.1-9
- VII. **Thermal performance of a novel thermoelectric refrigerator with a water to air heat exchanger and SiO₂, TiO₂ and Al₂O₃ nanofluids**
Cuce P. M., Riffat S. B., CÜCE E.
Eighteenth International Conference on Sustainable Energy Technologies, Kuala Lumpur, Malaysia, 20 - 22 August

2019, pp.1-9

- VIII. **Glazed areas as the most sensitive part of building envelope in terms of thermal insulation performance: Current status and future prospects**
CÜCE E.
International Conference on Materials Science, Mechanical and Automotive Engineering and Technology in Cappadocia/TURKEY, Nevşehir, Turkey, 21 - 23 June 2019, pp.1-6
- IX. **UVC/UVA absorption, noise reduction, thermal insulation, visible light and solar radiation control of PV glazing systems: An experimental research**
CÜCE E.
International Conference on Materials Science, Mechanical and Automotive Engineering and Technology in Cappadocia/TURKEY, Nevşehir, Turkey, 21 - 23 June 2019, pp.1-6
- X. **Global necessity to nearly zero-energy buildings (nZEB)**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XI. **Thermoelectric refrigeration systems: From theory to applications**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XII. **U-value analysis of argon filled double glazed windows**
CÜCE E., MERT CÜCE P., BEŞİR A. B., GÜÇLÜ T.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XIII. **Role of greenery systems in the U-value of building envelopes**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE P., CÜCE E.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XIV. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., MERT CÜCE P., GÜÇLÜ T., BEŞİR A. B.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XV. **A new technique for sorting of metals in scrap industry.**
MERT CÜCE P., CÜCE E., GÜÇLÜ T., BEŞİR A. B., Gökçe E.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XVI. **Optical performance parameters of thermally resistive PV glazing (TR-PVG)**
CÜCE E., CUCE P. M.
International Conference on Photonics Research, Antalya, Turkey, 8 - 12 October 2018, pp.1
- XVII. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., CUCE P. M., GUCLU T., BESIR A. B.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.790-793
- XVIII. **Thermoelectric refrigeration systems: From theory to applications**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.635
- XIX. **Role of greenery systems in the U-value of building envelopes**
BESIR A. B., GUCLU T., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.634
- XX. **A new technique for sorting of metals in scrap industry. International Congress on Engineering and Life Science**
MERT CÜCE A. P., CÜCE E., GÜÇLÜ T., BEŞİR A. B., GÖKÇE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.1
- XXI. **Thermally resistive PV glazing (TR-PVG) systems**
CÜCE E., CUCE P. M., GUCLU T., BESIR A. B.
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- XXII. **U-value analysis of argon filled double glazed windows**
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- XXIII. **Role of greenery systems in the U-value of building envelopes**
BEŞİR A. B., GÜÇLÜ T., MERT CÜCE A. P., CÜCE E.
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- XXIV. **Thermoelectric refrigeration systems: From theory to applications**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE A. P., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.1
- XXV. **A new technique for sorting of metals in scrap industry**
CUCE P. M., CÜCE E., GUCLU T., BESIR A. B., GOKCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.568
- XXVI. **Global necessity to nearly zero-energy buildings (nZEB)**
BESIR A. B., GUCLU T., CUCE P. M., CÜCE E.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.661
- XXVII. **Thermal performance assessment of thermoelectric coolers for micro space cooling**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017
- XXVIII. **The comparison of greenery systems in terms of energy saving**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017
- XXIX. **The comparison of greenery systems in terms of energy saving**
GUCLU T., BESIR A. B., CUCE P. M., CÜCE E.
International Conference on Engineering Technologies, 7 - 09 December 2017
- XXX. **Thermal performance assessment of thermoelectric coolers for micro space cooling**
GÜÇLÜ T., BEŞİR A. B., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017
- XXXI. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
OZTEKIN E. K., CUCE P. M., CÜCE E.
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- XXXII. **Photovoltaic thermal (PV/T) powered multi-generation systems: A review**
ÖZTEKİN E. K., MERT CÜCE P., CÜCE E.
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017
- XXXIII. **Thermoelectric coolers (TECs) for potential air-conditioning applications in buildings**
GUCLU T., CUCE P. M., BESIR A. B., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.1
- XXXIV. **Greenery systems as an energy-efficient retrofit solution toward 2030 and 2050 zero-carbon building targets**
BESIR A. B., CUCE P. M., GUCLU T., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.143
- XXXV. **Material selection for an optimized fin geometry through longitudinal perforations by using analytical hierarchy process**
OZTEKIN E. K., CÜCE E.
First International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.1
- XXXVI. **Regional and seasonal aspects of energy saving in buildings with green roofs**
BESIR A. B., CÜCE E., GUCLU T.
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1469
- XXXVII. **Smart solutions in heating, ventilation and air-conditioning (HVAC) systems toward low/zero carbon buildings**
CUCE P. M., CÜCE E.

- International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.284
- XXXVIII. **Reliability of single-diode mathematical models in parameter extraction of PV cells: An experimental and numerical investigation**
 CUCE P. M., CÜCE E.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1467
- XXXIX. **Performance assessment of hybrid photovoltaic thermal (PV/T) collectors and systems: A review**
 OZTEKIN E. K., CÜCE E.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.625-631
- XL. **A systematic overview of thermoelectric coolers (TECs)**
 GUCLU T., CÜCE E., BESIR A. B.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1470
- XLI. **Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations**
 OZTEKIN E. K., CÜCE E.
 International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.745-749
- XLII. **Thermal and acoustic properties of aerogels: preliminary investigation of the influence of granule size**
 MORETTI E., MERLI F., Cuce E., BURATTI C.
 8th International Conference on Sustainability in Energy and Buildings (SEB), Turin, Italy, 11 - 13 September 2016, vol.111, pp.482-490
- XLIII. **Buildings of future Smart low cost and energy efficient solutions**
 CÜCE E., CUCE P. M.
 International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering (ICIMECE) Annual Conference on Industrial and System Engineering (ACISE), 6-7 October 2016, Yogyakarta, Indonesia., 6 - 07 October 2016
- XLIV. **Buildings of future: Smart, low-cost and energy-efficient solutions**
 CÜCE E., CUCE P. M.
 Second International Conference on Industrial, Mechanical, Electrical and Chemical Engineering and Annual Conference on Industrial and System Engineering, Yogyakarta, Indonesia, 6 - 07 October 2016, pp.1
- XLV. **Thermal and acoustic properties of aerogels: Preliminary investigation of the influence of granule size**
 BURATTI C., CÜCE E., MERLI F., MORETTI E.
 Eighth International Conference on Sustainability in Energy and Buildings, Turin, Italy, 11 - 13 September 2016, pp.482-490
- XLVI. **Initial experimental investigation of environmental performance of greenhouse under innovative energy saving and climate control systems**
 DING Y., CÜCE E., RIFFAT S., LU C.
 Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.1-7
- XLVII. **The role of plants in temperature regulation of external walls: An experimental and numerical research**
 CÜCE E., CÜCE P. M., SHER F., BALI T., ALTIN I.
 Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.323
- XLVIII. **Concentrated Photovoltaic Thermal (CPVT) solar collector systems: State-of-the-art, fundamental and design key-factors**
 DANESHAZARIAN R., CÜCE E., CÜCE P. M.
 Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.158
- XLIX. **In-situ thermal performance monitoring of a novel domestic heat recovery unit**

CÜCE P. M., CÜCE E., BAYRAKTAR K. G., RIFFAT S.

Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.152

- L. **Cost-effective and energy-efficient strategies for greenhouse systems: A comprehensive review**
CÜCE E., CÜCE P. M.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.1
- LI. **Recent passive technologies of greenhouse systems: A review**
HARJUNOWIBOWO D., RIFFAT S., CÜCE E., OMER S., DING Y.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.1-10
- LII. **Recent developments on multi-functional PV glazing technologies: Heat insulation solar glass**
CÜCE E.
Fifteenth International Conference on Sustainable Energy Technologies, Nus, Singapore, 19 - 22 July 2016, pp.1
- LIII. **Cooling applications with renewable energy powered resorption systems** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
PASTAKKAYA B., CÜCE E., CUCE P. M.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015, vol.2, pp.58-64
- LIV. **Techno economic assessment of heat insulation solar glass HISG for different climatic conditions A case study for Beijing and London** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
CÜCE E., HAN D., SAFFA R.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LV. **Theoretical investigation of soil based thermal energy storage system for greenhouses** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
CÜCE E., DING Y., SAFFA R., LU C.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LVI. **Cooling Applications with Renewable Energy Powered Resorption Systems**
PASTAKKAYA B., CÜCE E., MERT CÜCE A. P.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LVII. **Lighting performance investigation of heat insulation solar glass HISG for potential utilization in greenhouses as facade material** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
CÜCE E., SAFFA R., CHINHUI Y.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LVIII. **Sustainable climate responsive strategies for Mumbai through a Biomimetic approach** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
CÜCE E., HAN D., SAFFA R.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LIX. **High Capacity Energy Efficiency Solar Glass** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
CHINHUI Y., SAFFA R., CÜCE E.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LX. **Investigation on the performance of air source heat pump system with new environment friendly refrigerants for a low carbon building** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
DING Y., CÜCE E., SAFFA R., CHUNGUI L.
Fourteenth International Conference on Sustainable Energy Technologies, 25 - 27 August 2015
- LXI. **Cooling applications with renewable energy powered resorption systems**
PASTAKKAYA B., CÜCE E., CÜCE P. M.
Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.362

- LXII. **Theoretical investigation of soil-based thermal energy storage system for greenhouses**
 CÜCE E., DING Y., RIFFAT S., LU C.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.1-14
- LXIII. **Investigation on the performance of air source heat pump system with new environment friendly refrigerants for a low carbon building**
 DING Y., CÜCE E., RIFFAT S., LU C.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.1
- LXIV. **Sustainable climate responsive strategies for Mumbai through a 'Biomimetic approach'**
 CÜCE E., SHAKEEL Z., RIFFAT S.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.1
- LXV. **Lighting performance investigation of heat insulation solar glass (HISG) for potential utilization in greenhouses as facade material**
 CÜCE E., RIFFAT S., YOUNG C.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.625-633
- LXVI. **High Capacity Energy Efficiency Solar Glass**
 YOUNG C., RIFFAT S., CÜCE E.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.266-271
- LXVII. **Techno-economic assessment of heat insulation solar glass (HISG) for different climatic conditions: A case study for Beijing and London**
 CÜCE E., DONG H., RIFFAT S.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.1
- LXVIII. **An application of homotopy perturbation method for efficiency and effectiveness assessment of longitudinal porous fins**
 CÜCE E., CÜCE P. M.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.361
- LXIX. **Photovoltaic vacuum glazing for low carbon buildings**
 ALOTAIBI A., CÜCE E., RIFFAT S.
 Fourteenth International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, pp.659-667
- LXX. **An overview of sectoral energy consumption in the UK: past, present and future**
 CÜCE E., RIFFAT S.
 Thirteenth International Conference on Sustainable Energy Technologies, Geneva, Switzerland, 25 - 28 August 2014, pp.40127
- LXXI. **Experimental and numerical investigation of a novel energy-efficient window technology for low-carbon buildings: Vacuum tube window**
 CÜCE E., RIFFAT S.
 Thirteenth International Conference on Sustainable Energy Technologies, Geneva, Switzerland, 25 - 28 August 2014, pp.40126
- LXXII. **Innovative window technologies for low-carbon buildings**
 CÜCE E.
 Workshop on novel energy and biotechnology developments in the sustainable built environment, İstanbul, Turkey, 24 - 27 March 2014, pp.1
- LXXIII. **Tilt angle optimization of building-integrated photovoltaics (BIPVs) for cooler operating temperatures**

- CÜCE E., CÜCE P. M.
MEGS IV Annual Conference, Public Engagement with Energy, Loughborough, United Kingdom, 12 - 13 September 2013, pp.1
- LXXIV. **Passive cooling of building-integrated photovoltaics (BIPVs) for better electrical performance**
CÜCE P. M., CÜCE E.
MEGS IV Annual Conference, Public Engagement with Energy, Loughborough, United Kingdom, 12 - 13 September 2013, pp.1
- LXXV. **Optimum insulation thickness of aerogel in buildings**
CÜCE E., CÜCE P. M., WOOD C. J., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, China, 26 - 29 August 2013, pp.1
- LXXVI. **Theoretical investigation of solar powered heat recovery panels in buildings**
CÜCE P. M., CÜCE E., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, China, 26 - 29 August 2013, pp.1
- LXXVII. **Second law analysis of solar powered heat recovery panels in buildings**
CÜCE P. M., CÜCE E., RIFFAT S.
Twelfth International Conference on Sustainable Energy Technologies, Hong Kong, China, 26 - 29 August 2013, pp.1
- LXXVIII. **Aerogel with its outstanding features and building applications**
RIFFAT S., CÜCE E.
Eleventh International Conference on Sustainable Energy Technologies, Vancouver, Canada, 2 - 05 September 2012, pp.1
- LXXIX. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
MERT CÜCE P., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, 4 September - 07 June 2011
- LXXX. **Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation**
CÜCE P. M., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1
- LXXXI. **A review on performance analysis of photovoltaic/thermal collectors**
RIFFAT S., CÜCE E.
Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1
- LXXXII. **Improving performance parameters of silicon solar cells using air cooling**
CÜCE E., BALI T.
Fifth International Ege Energy Symposium and Exhibition, Denizli, Turkey, 27 - 30 June 2010, pp.1-8
- LXXXIII. **Comparison of energy, power conversion and exergy efficiencies of monocrystalline silicon photovoltaic module at different illumination intensities and cell temperatures**
CÜCE E., BALI T.
17. Ulusal Isı Bilimi ve Teknigi Kongresi, Sivas, Turkey, 24 - 27 June 2009, pp.1-19
- LXXXIV. **A comparison of energy and power conversion efficiencies of m-Si and p-Si PV cells in Trabzon**
CÜCE E., BALI T.
Fifth International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009, pp.1-5
- LXXXV. **Variation of cell parameters of a p-Si PV cell with different solar irradiances and cell temperatures in humid climates**
CÜCE E., BALI T.
Fourth International Exergy, Energy and Environment Symposium, Dubai, United Arab Emirates, 19 - 23 April 2009, pp.1-6

Supported Projects

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

CÜCE E., TUBITAK Project, Development of a novel, energy-efficient, eco-friendly and multi-functional glazing technology for low/zero carbon buildings: An experimental, numerical and statistical investigation, 2017 - 2019

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

CÜCE E., MERT CÜCE A. P., 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: 269

Citation (WoS): 4438

Citation (Scopus): 5390

H-Index (WoS): 37

H-Index (Scopus): 42

Congress and Symposium Activities

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., Hot Paper and Highly Cited Paper Award from Web of Science. Toward aerogel based thermal superinsulation in buildings: A comprehensive review. (%0.1 in the relevant academic field), Thomson Reuters, December 2017
MERT CÜCE A. P., CÜCE E., Highly Cited Paper Award from Web of Science. A state-of-the-art review on innovative glazing technologies. (%1 in the relevant academic field), Thomson Reuters, December 2017
CÜCE E., Scientific Publication Award – First Place. University of Bayburt, 2016, University of Bayburt, May 2016