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Eğitim Bilgileri

Post Doktora, University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, Birleşik Krallık 2014 - 2016

Doktora, The University of Nottingham, Faculty Of Engineering, Institute Of Sustainable Energy Technologies, Birleşik Krallık 2012 - 2014

Yüksek Lisans, University of London, Birbeck College, London Foundation Campus, Master's Foundation Programme (Mfp) İn Engineering, Birleşik Krallık 2011 - 2012

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 2006 - 2009

Lisans, Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye 2002 - 2006

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Enerji, Alternatif Enerji Kaynakları, Enerji depolama teknolojileri, Güneş Enerjisi, İleri Enerji Teknolojileri, Termodinamik, Isı ve Madde Transferi, Isıtma, Soğutma ve Havalandırma , Isıl Sistemler, Sayısal Analiz

Akademik Unvanlar / Görevler

Doç. Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Makine Mühendisliği, 2021 - Devam Ediyor

Akademik İdari Deneyim

TTO Koordinatörü, Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Makine Mühendisliği, 2022 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Makine Mühendisliği, 2020 - 2021

Yönetilen Tezler

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

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Performance and emission characteristics of hydrogen enriched CNG in a dual fuel diesel engine: An experimental and numerical research**
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- II. **Optimization on the structure and filling ratio of a flexible separate heat pipe applied for tracking-type photovoltaic/thermal systems**
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- III. **Numerical investigation on heat transfer and flow mechanism in microchannel heat sink having V shape ribs**
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- IV. **Energy Efficiency in Portuguese Traditional Cheese Industries: A Comprehensive Case Study**
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- V. **Nanotechnology and LSTM machine learning algorithms in advanced fuel spray dynamics in CI engines with different bowl geometries**
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- VI. **A Short Review on Nano-Additives to Enhance Biodiesel Performance in Diesel Engines**
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- VII. **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, cilt.71, 2024 (SCI-Expanded)
- VIII. **Divergent chimney and sloping collector design for ground heat source integrated solar chimney power plants**
Cüce E.
Journal of Thermal Analysis and Calorimetry, cilt.149, sa.18, ss.10973, 2024 (SCI-Expanded)
- IX. **Optical power monitoring systems for offshore wind farms: A literature review**
Mohanty S., Ramasamy A., Mohanty A., Mohanty P. P., Soudagar M. E. M., Khan T. Y., Cüce E.

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.72, ss.104029, 2024 (SCI-Expanded)

- X. **Characterization Methods for Azobenzene Photoisomerization Energy Storage: A Review**
Zhang J., Zhang L., Jin G., Lin C., Cüce E., Guo S.
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- XI. **CFD analysis of the impact of air gap width on Trombe wall performance**
Friji K., Ghriess O., Bouabidi A., Cüce E., Alshahrani S.
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- XII. **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.
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- XIII. **Unlocking energy efficiency: Experimental investigation of bamboo fibre reinforced briquettes as sustainable solution with enhanced thermal resistance**
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CASE STUDIES IN THERMAL ENGINEERING, cilt.60, ss.104680, 2024 (SCI-Expanded)
- XIV. **Energy consumption, power generation and performance analysis of solar photovoltaic module based building roof**
Wei L., Islam M., Hasanuzzaman M., CÜCE E.
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- XV. **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.
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- XVI. **Improvement of azobenzene photothermal energy storage density via grafting onto g-C₃N₄ and introducing hydrogen bonding**
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- XVII. **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.
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- XVIII. **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.
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- XIX. **A state-of-art review on photovoltaic systems: Design, performance, and progress**
Saxena A., Kumar R., Sagade A. A., Singh D. B., Tyagi V., Cüce E., Goel V.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, cilt.190, ss.1324-1354, 2024 (SCI-Expanded)
- XX. **A Review and Classification of Conventional, Advanced, Smart and Multifunctional Glazing Technologies for Low-Carbon Building and Applications**
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- XXI. **Power system resilience and strategies for a sustainable infrastructure: A review**
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AEJ - ALEXANDRIA ENGINEERING JOURNAL, cilt.105, ss.261-279, 2024 (SCI-Expanded)
- XXII. **Enhanced convective heat transfer with Al₂O₃-water nanofluid in a PCM-based thermal energy storage system**
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- XXIII. **Impact of support pillars geometry on thermal insulation performance of vacuum glazing: CFD research and exergy analysis**

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- XXIV. **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.
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- XXV. **Assessment of higher demand of household energy consumption in different households in India: an inter-comparative study and solar savings valuation**
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- XXVI. **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.
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- XXVII. **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.
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- XXVIII. **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.
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- XXIX. **Current trends and biotechnology infused cleaner production of biomaterials for the construction industry: A critical review**
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- XXX. **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.
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- XXXI. **Contemporary Evaporative Cooling System with Indirect Interaction in Construction Implementations: A Theoretical Exploration**
MERT CÜCE A. P., CÜCE E., Riffat S.
BUILDINGS, cilt.14, sa.4, ss.994, 2024 (SCI-Expanded)
- XXXII. **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.
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- XXXIII. **Continuous electricity generation from diurnal and seasonal air temperature variation**
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- XXXIV. **Systematic inspection on the interplay between MoNa-induced sodium and the formation of MoSe2 intermediate layer in CIGSe/Mo heterostructures**
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- XXXV. **Fire retardation, compressive strength and durability analysis of concrete reinforced with novel plasters: An experimental, computational and statistical research**
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- XXXVI. **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.
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- XXXVII. **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, cilt.16, sa.6, ss.2334, 2024 (SCI-Expanded)
- XXXVIII. **Thermal Analysis of Building Roofs with Latent Heat Storage for Reduction in Energy Consumption and CO₂ Emissions: An Experimental and Numerical Research**
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- XXXIX. **Passive sustainability strategies in traditional Gaziantep residences: a critical report on historical development**
Anaç M., Mert Cüce P., Cüce E.
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- XL. **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, cilt.19, ss.207-216, 2024 (SCI-Expanded)
- XLI. **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, cilt.77, 2024 (SCI-Expanded)
- XLII. **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, cilt.61, ss.103580, 2024 (SCI-Expanded)
- XLIII. **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, cilt.82, ss.110471, 2024 (SCI-Expanded)
- XLIV. **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, cilt.398, ss.132501, 2023 (SCI-Expanded)
- XLV. **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**
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- XLVI. **Fast Pyrolysis of Tea Bush, Walnut Shell, and Pine Cone Mixture: Effect of Pyrolysis Parameters on Pyrolysis Crop Yields**
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- XLVII. **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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- XLVIII. **Experimental analysis on the impacts of soil deposition and bird droppings on the thermal performance of photovoltaic panels**

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- XLIX. **Extensive Analysis of a Reinvigorated Solar Water Heating System Using Low-Density Polyethylene Glazing**
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- L. **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, cilt.32, sa.4, ss.1657-1670, 2023 (SCI-Expanded)
- LI. **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.
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- LII. **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, cilt.69, ss.106282, 2023 (SCI-Expanded)
- LIII. **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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- LIV. **Hybrid solar, wind, and energy storage system for a sustainable campus: A simulation study**
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- LV. **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.
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- LVI. **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, cilt.56, ss.103046, 2023 (SCI-Expanded)
- LVII. **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, cilt.18, ss.682-688, 2023 (SCI-Expanded)
- LVIII. **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.
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- LIX. **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.
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- LX. **Experimental and theoretical examination of the energy performance and CO₂ emissions of room air conditioners utilizing natural refrigerant R290 as a substitute for R22**
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- LXI. **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, cilt.329, 2023 (SCI-Expanded)
- LXII. **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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- LXIII. **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.
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- LXIV. **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.
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- LXV. **Dependence of electrical power output on collector size in Manzanares solar chimney power plant: An investigation for thermodynamic limits**
Cüce E.
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- LXVI. **Solar farm: Siting, design and land footprint analysis**
Sukumaran S., Sudhakar K., Yusop A. F., Kirpichnikova I., Cüce E.
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- LXVII. **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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- LXVIII. **Effect of using hybrid nanofluids as a coolant on the thermal performance of portable thermoelectric refrigerators**
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