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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
- Cüce E., Mert Cüce A. P., Güneş bacası güç santrallerinin parametrik optimizasyonu, Yüksek Lisans, H.ŞEN(Öğrenci), 2021
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.60, ss.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**
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- 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, cilt.44, sa.3, ss.1-16, 2024 (SCI-Expanded)
- IV. **Power system resilience and strategies for a sustainable infrastructure: A review**
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- V. **Micro-scale Fuel Cell cogeneration system response combined with heat pump consumption in arid zones.**
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- VI. **Enhanced convective heat transfer with Al2O3-water nanofluid in a PCM-based thermal energy storage system**
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- VII. **Characteristics of the built environment in the Eastern Mediterranean and Middle East and related energy and climate policies**
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ENERGY EFFICIENCY, cilt.17, ss.52, 2024 (SCI-Expanded)
- 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.
CASE STUDIES IN THERMAL ENGINEERING, cilt.59, ss.104568, 2024 (SCI-Expanded)
- 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.
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- X. **Contemporary Evaporative Cooling System with Indirect Interaction in Construction Implementations: A Theoretical Exploration**
Mert Cüce A. P., Cüce E., Riffat S.
BUILDINGS (BASEL), cilt.14, sa.4, ss.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.
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- 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.
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- XIII. **Energy Consumption, Power Generation and Performance Analysis of Solar Photovoltaic Module Based Building Roof**
Wei L. J., Islam., Hasannuzaman M., Cüce E.
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- 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., Balavadeivel R.
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- XV. **Continuous electricity generation from diurnal and seasonal air temperature variation**
Tang X., Cuce E., Li G., Zhao X.
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- XVI. **Solar Chimney Power Plants for Sustainable Air Quality Management Integrating Photocatalysis and Particulate Filtration: A Comprehensive Review**
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SUSTAINABILITY, cilt.16, sa.6, ss.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.
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- 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.
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- 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.
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- 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**

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- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 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**
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- XXXII. **Experimental analysis on the impacts of soil deposition and bird droppings on the thermal performance of photovoltaic panels**
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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, cilt.405, ss.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, cilt.69, ss.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, cilt.78, ss.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, cilt.148, ss.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, cilt.56, ss.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, cilt.18, ss.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, cilt.18, ss.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.
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- 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.
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- XLIV. **Weather Impact on Solar Farm Performance: A Comparative Analysis of Machine Learning Techniques**
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- 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, cilt.30, sa.5, ss.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, cilt.17, ss.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.
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- 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.
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- 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, cilt.53, ss.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, cilt.24, sa.7, ss.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, cilt.14, sa.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.
SOLAR ENERGY, cilt.242, ss.335-363, 2022 (SCI-Expanded)
- 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.
ENERGY AND BUILDINGS, cilt.268, 2022 (SCI-Expanded)
- LVIII. **Perovskite solar cells: A review of the recent advances**
Roy P., Ghosh A., Barclay F., Khare A., Cüce E.
COATINGS, cilt.12, sa.8, ss.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.
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- LX. **A thermodynamic review on solar stills**
Saxena A., CÜCE E., Kabeel A. E., Abdelgaied M., Goel V.
SOLAR ENERGY, cilt.237, ss.377-413, 2022 (SCI-Expanded)
- 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.
SUSTAINABILITY, cilt.14, sa.5, 2022 (SCI-Expanded)
- 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.
SUSTAINABILITY, cilt.14, sa.6, 2022 (SCI-Expanded)
- 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.
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- 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.
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- 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.
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WORLD JOURNAL OF TEXTILE ENGINEERING AND TECHNOLOGY, Editörler Kurulu Üyesi, 2021 - Devam Ediyor

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Metrikler

Yayın: 269

Atf (WoS): 4438

Atf (Scopus): 5390

H-İndeks (WoS): 37

H-İndeks (Scopus): 42

Kongre ve Sempozyum Katılımı Faaliyetleri

International Conference on Design, Materials and Manufacturing Engineering for Sustainable Development (ICDMMESD 2024), Davetli Konuşmacı, Dehra-Dun, Hindistan, 2024

The 6th International Conference on Alternative Fuels, Energy & Environment: Future and Challenges (ICAFEE 2023), Davetli Konuşmacı, Kayseri, Türkiye, 2023

Renewable Energy Technologies for Sustainable Systems, Davetli Konuşmacı, Velluru, Hindistan, 2023

7th Session of Global Sustainability Lecture Series, Davetli Konuşmacı, Kuala-Lumpur, Malezya, 2022

Third International Conference on Sustainable Energy Solutions for a Better Tomorrow, Davetli Konuşmacı, Chennai, Hindistan, 2022

Recent Advancements in Sustainable Energy Storage and Conversion, Davetli Konuşmacı, Karnataka, Hindistan, 2021

Energy Positive Buildings & Sustainable Transport Workshop organised by University of Exeter, UK and VIT, India, Davetli Konuşmacı, Exeter, Birleşik Krallık, 2021

Novel Solar Energy Applications for the Built Environment, GIAN Programme Organised in Maulana Azad National Institute of Technology (MANIT), Bhopal, Davetli Konuşmacı, Bhopal, Hindistan, 2018

International Joint Conferences of International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering (ICIMECE) & Annual Conference on Industrial and System Engineering (ACISE), Davetli Konuşmacı, Yogyakarta, Endonezya, 2016

Burslar

Post-Doctorate Research Fellowship from TUBITAK (The Scientific and Technological Research Council of Turkey) through funding programme 2219/1, 2015, TÜBİTAK, 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, Üniversite, 2014 - 2016

Postgraduate Research Scholarship of Turkish Ministry of Education, Doctoral research in Sustainable Energy Technologies at the University of Nottingham, Milli Eğitim Bakanlığı, 2012 - 2015

Ödüller

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

Cüce E., Saxena A., Mert Cüce A. P., Sen H., Guo S., Sudhakar K., Best Paper Award, Oxford University Press, Ağustos 2022

Cüce E., TÜBA-Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP), Türkiye Bilimler Akademisi, Aralık 2021

CÜCE E., The Scientist of the Year Award - Yılın Bilim İnsanı Ödülü, Bilim Kahramanları Derneği, Nisan 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, Aralık 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, Aralık 2017

CÜCE E., Scientific Publication Award – First Place. University of Bayburt, 2016, University of Bayburt, Mayıs 2016