

Doç. Dr. ERDEM CÜCE

Kişisel Bilgiler

İş Telefonu: [+90 464 223 7518](tel:+904642237518) Dahili: 1203

Fax Telefonu: [+90 464 223 7514](tel:+904642237514)

E-posta: erdem.cuce@erdogan.edu.tr

Diğer E-posta: erdemcuce@gmail.com

Web: <https://www.erdemcuce.com>

Posta Adresi: Department of Mechanical Engineering, Faculty of Engineering and Architecture, Recep Tayyip Erdogan University, Zihni Derin Campus, 53100 Rize, Turkey

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-0150-4705

Publons / Web Of Science ResearcherID: P-4562-2015

ScopusID: 47560946200

Yoksis Araştırmacı ID: 152577

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

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. **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.
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- II. **Performance and emission prediction using ANN (artificial neural network) on H₂-assisted Garcinia gummi-gutta biofuel doped with nano additives**
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- III. **A comparative study of helical and spiral flow paths in solar air heaters: Experimental testing and CFD modeling**
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- IV. **Comparative analysis of geometrical configurations in aero-thermal panel systems**
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- V. **Empowering smart city through smart grid communication and measurement technology**
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INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, cilt.20, ss.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, cilt.293, ss.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.
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- 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, cilt.151, ss.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, cilt.35, sa.2-4, ss.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.
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- 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.
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- 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.
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- XIII. **Energy Efficiency in Portuguese Traditional Cheese Industries: A Comprehensive Case Study**
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- XIV. **Floating solar sustainability on land and ocean: A strategic assessment using SWOT-TWOS-PESTLE analysis**
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- XV. **Towards Sustainable and Climate-Resilient Cities: Mitigating Urban Heat Islands Through Green Infrastructure**
MERT CÜCE A. P., CÜCE E., Santamouris M.
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- 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.
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- 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.
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- 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.
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- XIX. **Optical power monitoring systems for offshore wind farms: A literature review**
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- XX. **Divergent chimney and sloping collector design for ground heat source integrated solar chimney power plants**
CÜCE E.
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- XXI. **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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- XXII. **Smart grid and application of big data: Opportunities and challenges**
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- XXIII. **Parametric optimization for enhancing the electrical performance of hybrid photovoltaic/thermal and thermally regenerative electrochemical cycle system**
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- 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.
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- 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.
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- XXVI. **Power system resilience and strategies for a sustainable infrastructure: A review**
Mohanty A., Ramasamy A. K., Verayah R., Bastia S., Dash S. S., CÜCE E., Khan T. M. Y., Soudagar M. E. M.
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- XXVII. **CFD analysis of the impact of air gap width on Trombe wall performance**
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- 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.
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- XXIX. **Enhanced convective heat transfer with Al₂O₃-water 2 O 3-water nanofluid in a PCM-based thermal energy storage system**
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- XXX. **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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- 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.
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- XXXII. **Unlocking energy efficiency: Experimental investigation of bamboo fibre reinforced briquettes as sustainable solution with enhanced thermal resistance**
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- 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.
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- XXXIV. **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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- XXXV. **Assessing performance of an external compound parabolic concentrator solar collector with cascaded latent heat thermal storage**
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- XXXVI. **Characteristics of the built environment in the Eastern Mediterranean and Middle East and related**

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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, cilt.155, ss.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.

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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.

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XL. **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)

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, cilt.64, ss.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, cilt.82, 2024 (SCI-Expanded)

XLIII. **Continuous electricity generation from diurnal and seasonal air temperature variation**

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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.

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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, cilt.31, sa.15, ss.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**

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XLVII. **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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XLVIII. **An overview of the existing and future state of the art advancement of hybrid energy systems based on PV-solar and wind**

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- XLIX. **Analysis of the benefits of adopting roof sandwich panels integrated with PCM versus PUR to mitigate energy costs and carbon dioxide emissions**
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- L. **Passive sustainability strategies in traditional Gaziantep residences: a critical report on historical development**
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- 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.
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- LII. **Thermal comfort inside a gable-roofed metallic shed in a higher educational institution: a case study and detailed analysis**
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- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 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, cilt.16, sa.16, ss.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.
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- 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.
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- 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, cilt.32, sa.4, ss.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.
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- 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.
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- 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.
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- LXVI. **Hybrid solar, wind, and energy storage system for a sustainable campus: A simulation study**
Muller D., Selvanathan S., CÜCE E., Kumarasamy S.
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- 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.
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- LXVIII. **Characterization of biodiesel based on plastic pyrolysis oil (PPO) and coconut oil: Performance and emission analysis using RSM-ANN approach**
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- LX. Cooling applications with renewable energy powered resorption systems** Fourteenth International Conference on Sustainable Energy Technologies 25 27 August 2015 Nottingham United Kingdom
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Kongre ve Sempozyum Katılımı Faaliyetleri

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

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