

## **Assoc. Prof. Doğan ERDEMİR**

### **Personal Information**

**Email:** dogan.erdemir@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/dogan.erdemir>

### **International Researcher IDs**

ScholarID: x4uOkD0AAAAJ

ORCID: 0000-0002-7995-4629

Publons / Web Of Science ResearcherID: Z-1767-2018

ScopusID: 56007380800

### **Research Areas**

Fluid Mechanics, Pressure Vessels and Piping, Renewable Energy Systems, Alternative Energy Resources, Energy storage technologies, Solar energy, Hydrogen Technologies and Fuel Cells, Advanced Energy Technologies, Geothermal energy, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning

### **Academic Titles / Tasks**

Associate Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2023 - Continues

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - 2023

Research Assistant, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2011 - 2018

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Development of renewable energy based green hydrogen and oxygen production and electricity generation systems for sustainable aquaculture**  
Erdemir D., DİNÇER İ.  
Journal of Cleaner Production, vol.434, 2024 (SCI-Expanded)
- II. **Comprehensive review and assessment of carbon capturing methods and technologies: An environmental research**  
Yagmur Goren A., Erdemir D., DİNÇER İ.  
Environmental Research, vol.240, 2024 (SCI-Expanded)
- III. **Development and assessment of a solar-driven charging station integrated with liquid CO<sub>2</sub> as an energy storage option**  
Erdemir D., DİNÇER İ.  
Journal of Energy Storage, vol.73, 2023 (SCI-Expanded)
- IV. **An experimental investigation of the effects of the number of capsules and operating conditions on the performance of encapsulated ice storage system**  
Turgut B., ERDEMİR D., ALTUNTOP N.  
Journal of Energy Storage, vol.64, 2023 (SCI-Expanded)
- V. **Sustainable and cleaner stone wool production with double density layered manufacturing**  
Altuntop E. S., ERDEMİR D.

- International Journal of Global Warming, vol.30, no.4, pp.386-400, 2023 (SCI-Expanded)
- VI. **Development and assessment of a novel hydrogen storage unit combined with compressed air energy storage**  
Erdemir D., Dincer I.  
APPLIED THERMAL ENGINEERING, vol.219, 2023 (SCI-Expanded)
- VII. **An investigation on potential use of ice thermal energy storage system as energy source for heat pumps**  
Altuntas M., ERDEMİR D.  
Journal of Energy Storage, vol.55, 2022 (SCI-Expanded)
- VIII. **How to Cover Additional Cooling Load Needs During COVID-19 Pandemic?**  
ERDEMİR D., DİNÇER İ.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.144, no.10, 2022 (SCI-Expanded)
- IX. **A new solar energy-based system integrated with hydrogen storage and heat recovery for sustainable community**  
Erdemir D., Dincer I.  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.52, 2022 (SCI-Expanded)
- X. **Experimental investigation on the effect of the ratio of tank volume to total capsulized paraffin volume on hot water output for a mantled hot water tank**  
ERDEMİR D., Ozbekler A., ALTUNTOP N.  
Solar Energy, vol.239, pp.294-306, 2022 (SCI-Expanded)
- XI. **Development of solar-driven charging station integrated with hydrogen as an energy storage option**  
ERDEMİR D., DİNÇER İ.  
Energy Conversion and Management, vol.257, 2022 (SCI-Expanded)
- XII. **Experimental investigation on the effect of ice storage system on electricity consumption cost for a hypermarket**  
ERDEMİR D., ALTUNTOP N., Çengel Y. A.  
Energy and Buildings, vol.251, 2021 (SCI-Expanded)
- XIII. **Experimental investigation of heat conduction characteristics of density-layered stone wool materials**  
Altuntop E. S., ERDEMİR D., Karamis M. B.  
International Communications in Heat and Mass Transfer, vol.126, 2021 (SCI-Expanded)
- XIV. **A perspective on the use of ammonia as a clean fuel: Challenges and solutions**  
ERDEMİR D., DİNÇER İ.  
International Journal of Energy Research, vol.45, no.4, pp.4827-4834, 2021 (SCI-Expanded)
- XV. **Development and assessment of geothermal-based underground pumped hydroenergy storage system integrated with organic Rankine cycle and district heating**  
ERDEMİR D.  
International Journal of Energy Research, vol.44, no.13, pp.10894-10907, 2020 (SCI-Expanded)
- XVI. **Assessment of Renewable Energy-Driven and Flywheel Integrated Fast-Charging Station for Electric Buses: A Case Study**  
ERDEMİR D., DİNÇER İ.  
Journal of Energy Storage, vol.30, 2020 (SCI-Expanded)
- XVII. **Potential use of thermal energy storage for shifting cooling and heating load to off-peak load: A case study for residential building in Canada**  
Erdemir D., Dincer İ.  
ENERGY STORAGE, vol.2, no.2, pp.1-12, 2020 (SCI-Expanded)
- XVIII. **Experimental investigation of phase change material utilisation inside the horizontal mantled hot water tank**  
ERDEMİR D., ALTUNTOP N.  
International Journal of Exergy, vol.31, no.1, pp.1-13, 2020 (SCI-Expanded)
- XIX. **Experimental investigation on enhancement of thermal performance with obstacle placing in the**

- horizontal hot water tank used in solar domestic hot water system**  
 ERDEMİR D., Atesoglu H., ALTUNTOP N.  
 Renewable Energy, vol.138, pp.187-197, 2019 (SCI-Expanded)
- XX. Numerical investigation of thermal performance of geometrically modified spherical ice capsules during the discharging period**  
 ERDEMİR D.  
 International Journal of Energy Research, vol.43, no.9, pp.4554-4568, 2019 (SCI-Expanded)
- XXI. Effect of thermal stratification on energy and exergy in vertical mantled heat exchanger**  
 ERDEMİR D., ALTUNTOP N.  
 International Journal of Exergy, vol.20, no.1, pp.105-121, 2016 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **A comprehensive review on battery thermal management system for better guidance and operation**  
 Altuntop E. S., ERDEMİR D., Kaplan Y., ÖZCEYHAN V.  
 Energy Storage, vol.5, no.8, 2023 (ESCI)
- II. **Development and comparative evaluation of integrated solar-driven off-grid energy systems with hydrogen production and storage options for sustainable buildings**  
 Erdemir D., Dincer I.  
 Energy Storage, vol.5, no.6, 2023 (ESCI)
- III. **Kapsüllenmiş Faz Değiştiren Malzemelerin Sıcak Su Tankları İçerisindeki Konumlarının Isıl Enerji Depolama Performansı Üzerindeki Etkisi**  
 ERDEMİR D.  
 Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.35, no.3, pp.24-33, 2020 (Peer-Reviewed Journal)
- IV. **Determination of Effect of Bottle Arrangement in the Sensible Thermal Energy Storage System Consisting of Water-Filled PET Bottles on Thermal Performance**  
 ERDEMİR D.  
 Hittite Journal of Science and Engineering, vol.6, no.4, pp.235-242, 2019 (Peer-Reviewed Journal)
- V. **Düşey Mantolu Sıcak Su Tanklarının Isıl Performanslarının Enerji Yükleme ve Boşaltma Periyotlarında Deneysel Olarak İncelenmesi**  
 ERDEMİR D.  
 Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.12, no.1, pp.73-82, 2019 (Peer-Reviewed Journal)
- VI. **Buzda Soğukluk Depolama: Klima Enerji Maliyetinde 50'ye Varan Tasarruf Potansiyeli**  
 ERDEMİR D., ALTUNTOP N., Duman Ş., Gündüz Ş., ÇENGEL Y. A.  
 TTMD Isıtma, Soğutma, Havalandırma, Klima, Yangın ve Sihhi Tesisat Dergisi, no.123, pp.42-49, 2019 (Peer-Reviewed Journal)
- VII. **Investigation of the effect of using graded porosity on the thermal performance of the encapsulated ice thermal energy storage tank**  
 ERDEMİR D., ALTUNTOP N.  
 ENERGY STORAGE, no.1, pp.1-12, 2019 (Peer-Reviewed Journal)
- VIII. **Güneş Enerjisinden Sıcak Su Elde Etme Yöntemleri ve Türkiye'deki Gelişimi**  
 ERDEMİR D., ALTUNTOP N.  
 Mühendis ve Makina, vol.54, no.707, pp.35-42, 2018 (Peer-Reviewed Journal)
- IX. **Yatay Sıcak Su Tanklarında Tank İçerisine Eğik Konumlandırılmış Engel Yerleştirmenin Etkisinin Sayısal Olarak İncelenmesi**  
 ERDEMİR D., TURGUT B., ALTUNTOP N.  
 Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.10, no.3, pp.40-51, 2018 (Peer-Reviewed Journal)
- X. **YATAY MANTOLU SICAK SU TANKLARINDA TANK TASARIMININTANKIN ISI PERFORMANSI ÜZERİNDEKİ ETKİSİNİN MANTO İLE İÇ TANK ARASINDAKİ ISI TRANSFERİ YÜZEY ALANI SABİTOLACAK ŞEKLDE İNCELENMESİ**

- TURGUT B., ERDEMİR D., GÜNEŞ S., ALTUNTOP N.  
mesleki bilimler dergisi, vol.6, no.3, pp.294-302, 2017 (Peer-Reviewed Journal)
- XI. **Yatay Mantolu Sıcak Su Tanklarında Tank Tasarımının Tankın Isıl Performansı Üzerindeki Etkisinin Manto ile İç Tank Arasındaki Isı Transferi Yüzey Alanı Sabit Olacak Şekilde İncelenmesi**  
TURGUT B., ERDEMİR D., GÜNEŞ S., ALTUNTOP N.  
Mesleki Bilimler Dergisi (MBD), vol.6, no.3, pp.294-302, 2017 (Peer-Reviewed Journal)
- XII. **Dünyada ve Türkiye'de Güneş Enerjisi ile İlgili Gelişmeler**  
ALTUNTOP N., ERDEMİR D.  
Mühendis ve Makina, vol.54, no.639, pp.69-77, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Introduction to Energy Systems**  
Dincer İ., Erdemir D.  
John Wiley & Sons, West Sussex, UK , London, 2023
- II. **Solar Ponds Systems and Applications**  
ERDEMİR D., DİNCER İ.  
Springer, Cham, 2023
- III. **Ammonia Energy Technologies**  
DİNCER İ., ERDEMİR D., AYDIN M. İ., Karasu H., Vezina G.  
Springer Nature, Oshawa, 2023
- IV. **Energy Storage Techniques for Renewables**  
ERDEMİR D., ALTUNTOP E. S., TURGUT B., ALTUNTOP N.  
in: Renewable Energy Based Solutions, Uyar Tanay Sitki, Javani Nader, Editor, Springer, pp.425-450, 2022
- V. **Heat Storage Systems for Buildings**  
DİNCER İ., ERDEMİR D.  
Elsevier, Amsterdam, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **COMPARISON STUDY BETWEEN PCM-BASED AND AIR-COOLED THERMAL MANAGEMENT SYSTEMS FOR LITHIUM ION BATTERY PACK**  
ALTUNTOP E. S., ERDEMİR D., ÖZCEYHAN V., KAPLAN Y.  
The World Energy Storage Conference-2023, Pittsburgh, United States Of America, 05 November 2023
- II. **A SOLAR POND INTEGRATED WITH BIFACIAL SOLAR PANELS FOR POWER AND HYDROGEN GENERATION**  
ERDEMİR D., DİNCER İ.  
14th International Conference on Hydrogen Production (ICH2P-2023), Doha, Qatar, 19 December 2023, pp.1-4
- III. **A UNIQUE SOLAR POND SYSTEM INTEGRATED WITH CHLOR-ALKALI ELECTROLYZER FOR HEAT STORAGE AND HYDROGEN PRODUCTION**  
ERDEMİR D., DİNCER İ.  
The World Energy Storage Conference-2023, Bradford, England, 05 November 2023, pp.1-5
- IV. **Experimental Investigation on the Effect of Porosity in the Storage Tank on the Thermodynamic Performance of an Encapsulated Ice Thermal Energy Storage Tank**  
TURGUT B., ERDEMİR D., ALTUNTOP N.  
The 2nd World Energy Storage Conference, İstanbul, Turkey, 28 December 2022
- V. **A Solar-Driven Charging Station Integrated with Liquid CO<sub>2</sub> as an Energy Storage Option**  
ERDEMİR D., DİNCER İ.  
The 2nd World Energy Storage Conference, İstanbul, Turkey, 28 December 2022

- VI. **A Review of Phase Change Materials Used in Li-Ion Battery Thermal Management Systems**  
ALTUNTOP E. S., ERDEMİR D., ÖZCEYHAN V., KAPLAN Y.  
The 2nd World Energy Storage Conference, İstanbul, Turkey, 28 December 2022
- VII. **A practical approach to determine the off-grid conditions for energy storage integrated solar-driven power systems**  
ERDEMİR D., DİNÇER İ.  
13th International Conference on Hydrogen Production (ICH2P-2022), Abbottabad, Pakistan, 11 December 2022
- VIII. **A New Generator Combined with Water Electrolysis and Fuel Cell Power Generation for More Sustainable Aquaculture**  
ERDEMİR D., DİNÇER İ.  
10th Global Conference on Global Warming (GCGW-2022), Sharjah, United Arab Emirates, 07 November 2022
- IX. **PHOTONIC REACTORS FOR HYDROGEN PRODUCTION AND WASTEWATER TREATMENT IN UNDERGROUND AND UNDERWATER APPLICATIONS**  
Erdemir D., Dincer İ.  
Proceedings of WHEC 2022 - 23rd World Hydrogen Energy Conference: Bridging Continents by H<sub>2</sub>, İstanbul, Turkey, 26 - 30 June 2022, pp.102-103
- X. **Development of a Novel Hydrogen Storage Unit Combined with Compressed-Air Energy Storage**  
ERDEMİR D., DİNÇER İ.  
The 6th International Hydrogen Technologies Congress, Çanakkale, Turkey, 23 January 2022
- XI. **Development of solar-driven and hydrogen integrated charging station for electric vehicles**  
ERDEMİR D., DİNÇER İ.  
TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), Ankara, Turkey, 08 August 2021, vol.1, pp.234-235
- XII. **Düşey Mantolu Sıcak Su Tanklarında Faz Değiştiren Malzeme Kullanımının Etkisinin İncelenmesi: İlk Bulgular**  
ERDEMİR D., TURGUT B., ALTUNTOP N.  
22. Uluslararası Isı Bilimi ve Tekniği Kongresi, Kocaeli, Turkey, 11 - 14 September 2019, pp.143-151
- XIII. **Buzda Enerji Depolama Sistemlerinin Ekonomik Açıdan Değerlendirilmesi**  
ERDEMİR D., TURGUT B., Bulut M., ALTUNTOP N.  
5. Enerji Verimliliği Kongresi, Kocaeli, Turkey, 18 - 19 October 2019, pp.120-128
- XIV. **Kademelendirilmiş Yalıtım Malzemelerinin Isıl İletim Özelliklerinin İncelenmesi**  
Altuntop E. S., KARAMİŞ M. B., ERDEMİR D., ALTUNTOP N.  
5. Enerji Verimliliği Kongresi, Kocaeli, Turkey, 18 - 19 October 2019, pp.107-113
- XV. **Düşey Mantolu Sıcak Su Tankında Tank İçerisine Silindirik Kapsüller İçerisinde Parafin Yerleştirmenin Etkisinin Deneysel Olarak Araştırılması**  
ERDEMİR D., TURGUT B., ALTUNTOP N.  
3. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 27 - 29 June 2019, pp.131-137
- XVI. **Bir Okul Binasında Buzda Enerji Depolama Sisteminin Soğutma Maliyeti Üzerindeki Etkisinin Araştırılması**  
ERDEMİR D., Bulut M.  
3. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 27 - 29 June 2019, pp.123-130
- XVII. **Yatay mantolu sıcak tanklarında tank içeresine eğik konumlandırılmış engel yerleştirmenin etkisinin sayısal olarak incelenmesi**  
ERDEMİR D., TURGUT B., ALTUNTOP N.  
2. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi, Nevşehir, Turkey, 5 - 08 July 2018
- XVIII. **BUZDA ENERJİ DEPOLAMA SİSTEMLERİNDE DEPOLAMA TANKI İÇERİSİNDE KADEMELİ POROZİTENİN SİSTEM PERFORMANSI ÜZERİNDEKİ ETKİSİNİN ANALİTİK OLARAK İNCELENMESİ**  
ERDEMİR D., ALTUNTOP N.  
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 - 20 April 2018, pp.1618-1628
- XIX. **YATAY MANTOLU SICAK SU TANKLARINDA TANK İÇERİSİNDE AKIM YÖNÜNE DİK ENGEL YERLEŞTİRMENİN TANKIN ISİL PERFORMANSI ÜZERİNDEKİ ETKİSİNİN DENEYSEL OLARAK**

## **İNCELENMESİ**

ERDEMİR D., ALTUNTOP N.

4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 - 20 April 2018, pp.1993-2002

- XX. **Experimental investigation of phase change material utilization inside the horizontal mantled hot water tank**

ERDEMİR D., ALTUNTOP N.

10th Exergy, Energy and Environment Symposium, IEEES-10, Katowice, Poland, 1 - 04 July 2018

- XXI. **Heat transfer and thermodynamics analyses of some modified spherical capsules during discharging period**

ERDEMİR D.

10th Exergy, Energy and Environment Symposium, IEEES-10, Katowice, Poland, 1 - 04 July 2018

- XXII. **YATAY MANTOLU SICAK SU TANKLARINDA TANK TASARIMININ TANKIN ISI PERFORMANSI ÜZERİNDEKİ ETKİSİNİN MANTO İLE İÇ TANK ARASINDAKİ ISI TRANSFERİ YÜZEY ALANI SABİT OLACAK ŞEKLDE İNCELENMESİ**

TURGUT B., ERDEMİR D., GÜNEŞ S., ALTUNTOP N.

International Vocational Science Symposium, Antalya, Turkey, 18 - 20 October 2017, pp.189-190

- XXIII. **Yatay Mantolu Sıcak Su Tanklarında Tank İçerisine Engel Yerleştirmenin Enerji ve Ekserji Yönünden Değerlendirilmesi**

ERDEMİR D., ALTUNTOP N., Demirbaş G.

IV. Enerji Verimliliği Kongresi, Kocaeli, Turkey, 13 October - 14 November 2017, pp.521-529

- XXIV. **Güneş Enerjili Sıcak Su Sistemlerinde Kullanılan Sıcak Su Tanklarının Isı Performansını İyileştirme Yöntemlerinin İncelenmesi**

ERDEMİR D., ALTUNTOP N., TURGUT B.

7. Güneş Enerjisi Sistemleri Sempozyumu ve Sergisi, Mersin, Turkey, 22 August - 23 May 2017, pp.122-127

- XXV. **An Experimental Investigation on Augmented Thermal Stratification with Obstacles**

ALTUNTOP N., ERDEMİR D.

3. International Conference on Engineering and Natural Sciences, Budapest, Hungary, 3 - 07 May 2017, pp.51

- XXVI. **Prediction of Temperature Decreasing on a Green Roof by Using ANN: Budapest Example**

ERDEMİR D., ALTUNTOP N.

3. International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.1064-1069

- XXVII. **Numerical Investigation on Determining the Effect of D/L Ratio on Thermal Performance of the Horizontal Mantled Hot Water Tank**

ERDEMİR D., ALTUNTOP N.

3. International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.1028-1035

- XXVIII. **A CFD Based Thermo-Hydraulic Performance Analyses of Different Spherical Capsules Using in Ice Thermal Storage System**

ERDEMİR D., ALTUNTOP N., Al Bayati A. J.

3. International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.1036-1042

- XXIX. **Thermodynamic Analysis of Sensible Thermal Energy Storage into PET Bottles Filled with Water**

ERDEMİR D., ALTUNTOP N.

9. International Exergy, Energy and Environment Symposium, Split, Croatia, 14 - 17 May 2017, pp.634-639

- XXX. **Effect of Encapsulated Ice Thermal Storage System on the Cooling Cost for a Hypermarket**

ERDEMİR D., ALTUNTOP N.

9. International Exergy, Energy and Environment Symposium, Split, Croatia, 14 - 17 May 2017, pp.1073-1079

- XXXI. **A Review on The Economic Impact of Ice Thermal Energy Storage System**

ERDEMİR D., ALTUNTOP N.

7. International 100 Renewable Energy Conference (IRENEC2017), İstanbul, Turkey, 18 - 20 May 2017, pp.86-93

- XXXII. **Development of Solar Energy Market, Industry and Utilization in Turkey**

ALTUNTOP N., ERDEMİR D.

7. International 100 Renewable Energy Conference (IRENEC2017), İstanbul, Turkey, 18 - 20 May 2017, pp.156-

- XXXIII. **Thermodynamic Heat Transfer and Fluid Flow Analyses of Encapsulated Ice Thermal Storage System Used in A Shopping Center**  
ERDEMİR D., ALTUNTOP N.  
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Saray Bosna, Bosnia And Herzegovina, 24 - 28 May 2016, pp.2915-2922
- XXXIV. **EXAMINATION OF MECHANICAL AND THERMAL VARIATIONS CAUSED BY THE IMPLANTOLOGY IN THE JAWBONE**  
TURGUT B., ERDEMİR D., ALTUNTOP N.  
2th International Conference on Advanced in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.788-795
- XXXV. **Thermodynamic and Economic Analysis of Ice Thermal Energy Storage System in a Shopping Center**  
ERDEMİR D., ALTUNTOP N.  
8th International Ege Energy Symposium (IEESE), Afyon, Turkey, 11 - 13 May 2016, pp.269-276
- XXXVI. **Effect of Ice Thermal Energy Storage System on Cooling Cost in a Shopping Center**  
ERDEMİR D., ALTUNTOP N.  
12th International HVACR Sanitary Technology Symposium, İstanbul, Turkey, 31 March - 02 April 2016, pp.334-340
- XXXVII. **Artificial Neural Networks Versus Genetic Programming for Estimating Temperature Decrease in Green Roof**  
AYATA T., ERDEMİR D., Ömer Tayfun Ö.  
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.2196-2202
- XXXVIII. **Investigation of Temperature Decreasing on Roof in Green Roof Systems with Artificial Neural Network Comparison of Athens and İzmir**  
AYATA T., ERDEMİR D.  
Global Conference on Global Warming, Atina, Greece, 24 - 27 May 2015
- XXXIX. **NUMERICAL INVESTIGATION ON EFFECT OF INLET AND OUTLET POSITIONS ON THERMAL STRATIFICATION IN VERTICAL HOT WATER TANK**  
ERDEMİR D., ALTUNTOP N.  
CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 13 - 15 May 2015
- XL. **Yeşil Çatı Sistemlerinin Çatılardaki Sıcaklık Düşümüne Etkisinin Yapay Sinir Ağları ile İncelenmesi – Şanlıurfa Örneği**  
AYATA T., ERDEMİR D.  
2. International Symposium on Environment and Morality, 24 - 26 October 2014, pp.879-889
- XLI. **Düzlemsel Güneş Kolektörlerinin Panel Yapılarının Sıcak Su Üretimine Etkisinin İncelenmesi**  
ERDEMİR D., ALTUNTOP N.  
2. Anadolu Enerji Sempozyumu, Diyarbakır, Turkey, 2 - 04 May 2013, pp.183-190
- XLII. **Düsey Mantolu Sıcak Su Tanklarında Sıcaklık Tabakalaşmasının Engeller Aracılığı ile İyileştirilmesinin Sayısal Olarak İncelenmesi**  
ERDEMİR D., ALTUNTOP N., Pekdemir İ. Z.  
2. Anadolu Enerji Sempozyumu, Diyarbakır, Turkey, 2 - 04 May 2013, pp.356-368
- XLIII. **Numerical investigation of heat transfer enhancement and pressure drop in heat exchanger tube fitted with dual twisted tape elements**  
ERDEMİR D., GÜNEŞ S., ÖZCEYHAN V., ALTUNTOP N.  
World Scientific and Engineering Academy and Society (WSEAS, Roma, Italy, 1 January - 01 February 2013, pp.167-172
- XLIV. **NUMERICAL INVESTIGATION OF THERMAL PERFORMANCE OF A TUBE FITTED WITH REGULARLY SPACED TWISTED TAPE ELEMENTS**  
GÜNEŞ S., ERDEMİR D., ÖZCEYHAN V., ALTUNTOP N.  
ASME 2012 Summer Heat Transfer Conference - HT2012, PORTO RICO, United States Of America, 8 - 12 July 2012, pp.61-69

- XLV. **Developments of Solar Energy Industry and Utilization in Turkey**  
ALTUNTOP N., ERDEMİR D.  
2. International 100 Renewable Energy Conference and Exhibition, İstanbul, Turkey, 28 - 30 June 2012, pp.211-216
- XLVI. **Türkiye'de Isıl ve Elektrik Enerjisi Açısından Güneş Enerjisi Sektörünün Gelişimi ve Bugünkü Durumu**  
ALTUNTOP N., ERDEMİR D.  
18. International Energy and Environment air and Conference, İstanbul, Turkey, 25 - 27 April 2012, pp.137-140
- XLVII. **Türkiye'de güneş enerjisi sektörünün gelişimi ve bugünkü durumu**  
ALTUNTOP N., ERDEMİR D.  
VI. Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 21 - 22 October 2011, pp.235-246
- XLVIII. **Investigating The Development of solar Energy systems Market in Turkey**  
ALTUNTOP N., ERDEMİR D.  
International 100 Renewable Energy Conference and Exhibition, İstanbul, Turkey, 6 - 08 October 2011, pp.200-208
- XLIX. **Türkiye'de güneş enerjisi isıl sistemlerinin mevcut pazarı ve gelişiminin incelenmesi**  
ALTUNTOP N., ERDEMİR D.  
5. Güneş Enerjisi Sistemleri Sempozyumu ve Sergisi, Mersin, Turkey, 5 - 07 October 2011, pp.15-22

## Supported Projects

Dincer İ., Aydin M. İ., Erdemir D., Karasu H., Other International Funding Programs, Sectoral Use of Ammonia as a Clean Solution, 2020 - 2022

Erdemir D., Dincer I., Other International Funding Programs, Development of a new mobile and effective oxygen generator for the Covid-19 coronavirus patients, 2020 - 2021

Erdemir D., TUBITAK Project, Düşey Mantolu Sıcak Su Tanklarında Enerji Depolama Kapasitesini Artırmak İçin Faz Değiştiren Malzeme Kullanımının Etkilerini Ve Farklı Çalışma Koşullarında Performanslarının Sayısal Ve Deneysel Olarak İncelenmesi, 2018 - 2019

Erdemir D., Project Supported by Other Official Institutions, Development of a novel and high-tech oxygen generator, 2015 - 2016

## Metrics

Publication: 88  
Citation (Scopus): 209  
H-Index (Scopus): 8

## Non Academic Experience

Temas Mühendislik  
Zeytin Mühendislik  
ERD Teknoloji San. ve Tic. Ltd. Şti.  
Medisem Tibbi Cihaz İmalat Sanayi