

## Res. Asst. MELTEM KOŞAN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, Turkey 2017 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (YI) (Tezli), Turkey 2015 - 2017

Undergraduate Double Major, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Energy Systems Engineering, Turkey 2010 - 2014

### Dissertations

Postgraduate, Güneş enerji sistemlerinde faz değıştiren malzeme ile ısı enerji depolamada kullanılan bir ısı değıştiricisi tasarımı ve sayısal analizi, Gazi University, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (YI) (Tezli), 2017

### Research Areas

Energy, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, 2015 - Continues

Research Assistant, Kahramanmaraş Sutcu Imam University, Elbistan Faculty Of Technology, Department Of Energy Systems Engineering, 2014 - 2015

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

- Experimental investigation of a novel thermal energy storage unit in the heat pump system**  
KOŞAN M., AKTAŞ M.  
JOURNAL OF CLEANER PRODUCTION, vol.311, 2021 (SCI-Expanded)

### Articles Published in Other Journals

- EXPERIMENTAL ASSESSMENT OF COMPARATIVE R290VS. R449A REFRIGERANTS BY USING 3E (ENERGY, EXERGY AND ENVIRONMENT) ANALYSIS: A SUPERMARKET APPLICATION**  
Arslan E., KOŞAN M., AKTAŞ M., Erten S.

JOURNAL OF THERMAL ENGINEERING, vol.7, no.3, pp.595-607, 2021 (ESCI)

**II. Thermodynamic Analysis of Industrial Cooling Systems with the Usage of Different Types of Evaporators: Experimental Study**

Erten S., KOŞAN M., İşgen F., Demirci E., AKTAŞ M.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, pp.1145-1161, 2021 (ESCI)

**III. Dilimlenmiş Elma ve Havucun Isı Pompası Tekniği ile Kurutulması: Performans Analizi**

AKTAŞ M., KOŞAN M., ÇATALBAŞ C., GÖK M.

Politeknik Dergisi, vol.22, no.3, pp.523-529, 2019 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. KARBONDİOKSİT SOĞUTUCU AKIŞKANLI MERKEZİ BİR SOĞUTMA SİSTEMİ TASARIMI VE SİSTEM ANALİZİ**

KOŞAN M., AKTAŞ M., Erten S., Uludağ K., Çatalkaya H., Dişli E.

ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYALBİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 20 - 22 December 2019, pp.82-87

**II. Energy efficient industrial buildings: sustainable energy systems for food process**

TUNCER A. D., Mavuş R., Gökçe C., KOŞAN M., AKTAŞ M.

International Conference on Technology and Science, Antalya, Turkey, 13 - 15 December 2018

**III. Design of a novel modular photovoltaic-thermal (PV/T) collector**

TUNCER A. D., KOŞAN M., Dolgun E. C., AKTAŞ M., Arslan E.

International Conference on Technology and Science, Antalya, Turkey, 13 - 15 December 2018

**IV. PHOTOVOLTAIC-THERMAL SOLAR ENERGY SYSTEM DESIGN FOR FOOD INDUSTRY**

KOŞAN M., DOLGUN E. C., AKTAŞ M., ÇOLAK E.

3. International Symposium on Industrial Design and Engineering, Antalya, Turkey, 22 - 24 November 2018

**V. A NEW DESIGN OF SOLAR-ASSISTED HEAT PUMP WITH ENERGY STORAGE FOR HEATING GREENHOUSES**

KOŞAN M., AKTAŞ M.

INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS IN ENGINEERING (ICAME'18), Balıkesir, Turkey, 27 - 29 June 2018, pp.121

**VI. NUMERICAL INVESTIGATION OF HEAT TRANSFER IN THE THERMAL ENERGY STORAGE UNIT**

KOŞAN M., AKTAŞ M.

INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS IN ENGINEERING (ICAME'18), Balıkesir, Turkey, 27 - 29 June 2018, pp.120

**VII. DESIGN AND THERMAL PERFORMANCE ANALYSIS OF A NOVEL MULTI-PASS SOLAR AIR COLLECTOR WITH PERFORATED FINS**

AKTAŞ M., SÖZEN A., TUNCER A. D., ARSLAN E., KOŞAN M., ÇÜRÜK O.

6. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS (ECRES18), İstanbul, Turkey, 25 - 27 June 2018, pp.533-539

**VIII. DESIGNING OF A NOVEL SOLAR ASSISTED HEAT PUMP SYSTEM WITH MODIFICATION OF THERMAL ENERGY STORAGE**

AKTAŞ M., KOŞAN M., ARSLAN E., TUNCER A. D., ŞENSOY B.

6. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS (ECRES18), İstanbul, Turkey, 25 - 27 June 2018, pp.540-545

**IX. YENİ NESİL GÜNEŞ ENERJİSİ DESTEKLİ İNFRARED BİR KURUTUCUNUN TASARIMI VE ANALİZİ**

AKTAŞ M., KOŞAN M., ÇATALBAŞ C., GÖK M.

Uluslararası Mühendislik Araştırmaları Sempozyumu (UMAS'2017), Düzce, Turkey, 11 - 13 September 2017

**X. DEĞİŞKEN SOĞUTUCU AKIŞKAN DEBİLİ İSİ POMPALI BİR KURUTUCUNUN PERFORMANS ANALİZİ**

AKTAŞ M., KOŞAN M., GÖK M., ÇATALBAŞ C.

Uluslararası Mühendislik Araştırmaları Sempozyumu (UMAS'2017), Düzce, Turkey, 11 - 13 September 2017

## **Metrics**

Publication: 25

Citation (WoS): 98

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