

## Prof. Ahmet Selim DALKILIÇ

### Personal Information

**Birthyear:** 1974

**Place of birth:** Istanbul

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### Education Information

Post Doctorate, King Mongkut's University Of Technology Thonburi, Makina Fakültesi, Makina Mühendisliği Bölümü, Thailand 2006 - 2007

Doctorate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Turkey 1999 - 2006

Post Graduate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Turkey 1996 - 1999

Under Graduate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Turkey 1992 - 1996

### Biography

#### World Ranking of Top 2% Scientists by Stanford University, October, 2020.

The database entitled "Updated science-wide author databases of standardized citation indicators" has just been published in one of the reputed journals PLOS Biology on the 16th of October 2020 (<https://doi.org/10.1371/journal.pbio.3000918>). The Stanford University scientists have created a database of over 100,000 top-scientists of the world on the basis of different standardized citation indicators, namely, information on citations, H-index, co-authorship, and a composite indicator.

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Düşey Borularda Yoğuşmada Isı Taşınım Katsayısının Araştırılması , Yıldız Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2007

Post Graduate, Kapalı olimpik yüzme havuzlarında iklim koşullarının sağlanması , Yıldız Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 1999

## Research Areas

Mechanical Engineering, Energy, Renewable Energy Systems, Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Thermal Systems, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2020 - Continues  
Associate Professor, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2014 - 2020  
Assistant Professor, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2011 - 2014  
Research Assistant, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 1997 - 2011

## Academic and Administrative Experience

Mevlana Exchange Program Coordinator, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2018 - Continues  
Erasmus Coordinator, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2008 - 2014  
Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2007 - 2008

## Courses

Isıl ve Mekanik Sistem Tasarımı, Under Graduate, 2018 - 2019  
Akışkanlar Mekaniği 1, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2017 - 2018, 2018 - 2019  
Akıllı Binalarda Mekanik Tesisat ve Elemanları, Under Graduate, 2015 - 2016, 2017 - 2018, 2019 - 2020  
Araştırma Yöntemleri ve Bilimsel Etik, Post Graduate, 2019 - 2020  
Soğutma ve İklimlendirme Esasları, Under Graduate, 2018 - 2019  
Isı Transferi, Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020  
İleri Termodinamik, Post Graduate, 2019 - 2020  
Akışkanlar Mekaniği 1, Under Graduate, 2019 - 2020  
Thermodynamics, Under Graduate, 2018 - 2019  
Isı Değiştiricileri, Under Graduate, 2012 - 2013, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2018 - 2019  
Enerji Sistemlerinin II. Kanun Analizi ve Ekserji, Post Graduate, 2015 - 2016, 2018 - 2019  
İklimlendirme ve Akıllı Sistemler, Post Graduate, 2017 - 2018, 2018 - 2019  
Seminer, Post Graduate, 2015 - 2016, 2016 - 2017  
İklimlendirmede Yalıtım Sistemleri, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
Bina Otomasyonu ve İşletmesi, Under Graduate, 2015 - 2016, 2016 - 2017  
Isı Transferi 1, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015  
Termodinamik 1, Under Graduate, 2013 - 2014  
Konveksiyon ve Radyasyonda Özel Konular, Post Graduate, 2012 - 2013  
Thermodynamics 2, Under Graduate, 2011 - 2012  
Fluid Mechanics, Under Graduate, 2011 - 2012  
Termodinamik 2, Under Graduate, 2012 - 2013

Thermodynamics 1, Under Graduate, 2011 - 2012

Makina Mühendisliğine Giriş 2, Under Graduate, 2011 - 2012

## Advising Theses

Dalkılıç A. S. , Taner T., Kojenerasyon Tesislerinde Kömür ile Biyokütle Kullanımının Kazan Verimine Etkisinin incelenmesi, Post Graduate, Ş.Berber(Student), 2020

Dalkılıç A. S. , BİR MAHALIN TERMAL KONFOR ŞARTLARININ HESAPLAMALI AKIŞKANLAR DINAMIĞI YÖNTEMİ İLE ANALIZI, Post Graduate, S.ÖZSAĞIROĞLU(Student), 2020

Dalkılıç A. S. , Düz ve Helisel Borularda Koruge Yüzeylerin Kullanımının Isı Geçişi Karakteristiklerine Etkisinin Sayısal Olarak İncelenmesi, Post Graduate, Ş.METİN(Student), 2020

Dalkılıç A. S. , AĞIR TİCARİ ARAÇLARDA RADYATÖR KAPASİTESİNİN DENEYSEL OLARAK TAYİNİ, Post Graduate, H.FURKAN(Student), 2019

Dalkılıç A. S. , Yumurtacı Z., Döşemeden ısıtma ve soğutma sistemlerinin ısı transferi karakteristiklerinin incelenmesi, Doctorate, Y.KARAKOYUN(Student), 2019

Dalkılıç A. S. , Yapay Sinir Ağları Yöntemiyle Doğalgaz Şehir Giriş İstasyonlarının Projelendirilmesi, Post Graduate, V.BALIKÇI(Student), 2019

Dalkılıç A. S. , Borulu Tip Isı Değiştiricilerinde Laminar Akışta Nümerik Olarak Isı Geçişi Karakteristiklerinin Araştırılması, Post Graduate, O.DALLI(Student), 2019

Dalkılıç A. S. , Mikrokanallı ısı alıcılarında akan R134A'nın kaynamasının deneysel olarak araştırılması, Post Graduate, C.ÖZMAN(Student), 2019

Dalkılıç A. S. , Bayrak M., Grafit bazlı bir nanosivimin ticari bir mikrokanalda soğutma performansının deneysel olarak incelenmesi, Doctorate, O.YILDIZ(Student), 2018

Dalkılıç A. S. , Nanoakışkanlı çift borulu ısı değiştiricilerin optimizasyonu, Post Graduate, G.ÖZÇELİK(Student), 2018

Dalkılıç A. S. , Yatay mikrokanatlı borularda kaynama ısı taşınım katsayısının ve basınç düşümünün araştırılması, Doctorate, A.CELEN(Student), 2018

Dalkılıç A. S. , Karbon nanotüplü kompresör yağlarının dinamik viskozitelerinin deneysel incelenmesi, Post Graduate, H.TARIK(Student), 2017

Dalkılıç A. S. , Mikrokanallı ısı değiştiricilerinde tek fazlı türbülanslı akışın deneysel incelenmesi, Post Graduate, S.YILMAZ(Student), 2017

Dalkılıç A. S. , Theoretical investigation of the use of nanorefrigerants in various refrigeration cycles, Post Graduate, M.AKTAŞ(Student), 2014

Dalkılıç A. S. , İç yüzeyi pürüzsüz ve mikrokanatlı düşey borular içinde akan saf suyun basınç düşümünün deneysel olarak belirlenmesi, Post Graduate, A.ÇEBİ(Student), 2014

Dalkılıç A. S. , Experimental analysis of the single phase pressure drop characteristics of smooth and microfin tubes, Post Graduate, A.CELEN(Student), 2013

Dalkılıç A. S. , Numerical investigation of the single phase forced convection heat transfer characteristics of nanofluids flowing in enhanced tubes, Post Graduate, N.KAYACI(Student), 2012

## Jury Memberships

Doctoral Examination, Doctoral Examination, Trakya Üniversitesi, May, 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **A comparative study on convective heat transfer in indoor applications**  
CAMCI M., Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S.  
Energy and Buildings, vol.242, 2021 (Journal Indexed in SCI Expanded)

- II. **Experimental investigation of thermal performance of novel cold plate design used in a Li-ion pouch-type battery**  
KALKAN O., CELEN A., BAKIRCI K., DALKILIÇ A. S.  
Applied Thermal Engineering, vol.191, 2021 (Journal Indexed in SCI Expanded)
- III. **Thermophysical Properties of Nanofluids**  
Arslan R., Özdemir V. A. , Akyol E., Dalkılıç A. S. , Wongwises S.  
Current Nanoscience, vol.17, pp.1-31, 2021 (Journal Indexed in SCI)
- IV. **A comprehensive approach to analyze the discrepancies in heat transfer characteristics pertaining to radiant ceiling heating system**  
Karakoyun Y., AÇIKGÖZ Ö., ÇEBİ A., Koca A., Çetin G., DALKILIÇ A. S. , Wongwises S.  
Applied Thermal Engineering, vol.187, 2021 (Journal Indexed in SCI)
- V. **CFD analyses on the thermal comfort conditions of a cooled room: a case study**  
Ozsagioglu S., CAMCI M., Taner T., AÇIKGÖZ Ö., DALKILIÇ A. S. , Wongwises S.  
Journal of Thermal Analysis and Calorimetry, 2021 (Journal Indexed in SCI Expanded)
- VI. **Heat transfer and fluid flow characteristics in a plate heat exchanger filled with copper foam**  
Nilpueng K., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.56, no.12, pp.3261-3271, 2020 (Journal Indexed in SCI)
- VII. **Single phase flow heat transfer characteristics of quad-channel twisted tape inserts in tubes**  
DALKILIÇ A. S. , Uluç B., Celtek M. S. , CELEN A., Jumholkul C., Newaz K. S. , Wongwises S.  
International Communications in Heat and Mass Transfer, vol.118, 2020 (Journal Indexed in SCI Expanded)
- VIII. **Experimental investigation on two-phase heat transfer of R-134a during vaporization in a plate heat exchanger with rough surface**  
Soontarapiromsook J., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S., Ahn H. S.  
International Journal of Heat and Mass Transfer, vol.160, 2020 (Journal Indexed in SCI Expanded)
- IX. **Effects of Sonication Time on the Stability and Viscosity of Functionalized MWCNT-Based Nanolubricants**  
Dalkılıç A. S. , Küçükyıldırım B. O. , Akdoğan Eker A., Yıldız F., Akpınar A., Jumholkul C., Wongwises S.  
Current Nanoscience, vol.16, no.4, pp.639-654, 2020 (Journal Indexed in SCI Expanded)
- X. **Effect of saturation temperature and vapor quality on the boiling heat transfer and critical heat flux in a microchannel**  
DALKILIÇ A. S. , CELEN A., Erdoğan M., Sakamatapan K., Newaz K. S. , Wongwises S.  
International Communications in Heat and Mass Transfer, vol.117, 2020 (Journal Indexed in SCI Expanded)
- XI. **Two-phase flow boiling in a microfluidic channel at high mass flux**  
Keepaiboon C., DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S., Mondal P. K. , Shadloo M. S.  
PHYSICS OF FLUIDS, vol.32, no.9, 2020 (Journal Indexed in SCI)
- XII. **Effect of geometrical parameters on the evaporative heat transfer and pressure drop of R-134a flowing in dimpled tubes**  
Aroonrat K., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S.  
HEAT AND MASS TRANSFER, 2020 (Journal Indexed in SCI)
- XIII. **Experimental investigation of the heat transfer and pressure drop characteristics of SiO<sub>2</sub>/water nanofluids flowing through a circular tube equipped with free rotating swirl generators**  
Jumholkul C., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Jerng D., Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.56, no.5, pp.1613-1626, 2020 (Journal Indexed in SCI)
- XIV. **Optimization of the finned double-pipe heat exchanger using nanofluids as working fluids**  
DALKILIÇ A. S. , MERCAN H., Ozcelik G., Wongwises S.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2020 (Journal Indexed in SCI)
- XV. **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**  
Karakoyun Y., Açıkğöz Ö., Yumurtacı Z., Dalkılıç A. S.

APPLIED THERMAL ENGINEERING, vol.164, 2020 (Journal Indexed in SCI)

- XVI. **Single phase flow of nanofluid including graphite and water in a microchannel**  
Yıldız O., Açıkgöz Ö., Yıldız G., Bayrak M., Dalkılıç A. S. , Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.56, no.1, pp.1-24, 2020 (Journal Indexed in SCI)
- XVII. **Experimental study on the specific heat capacity measurement of water-based  $Al_2O_3$ -Cu hybrid nanofluid by using differential thermal analysis method**  
Çolak A. B. , Yıldız O., Bayrak M., Celen A., DALKILIÇ A. S. , Wongwises S.  
Current Nanoscience, vol.16, no.6, pp.912-928, 2020 (Journal Indexed in SCI Expanded)
- XVIII. **Experimental and numerical studies on heat transfer enhancement for air conditioner condensers using a wavy fin with a rectangular winglet**  
Chimres N., Chittiphalungsri T., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.  
Journal of Mechanical Science and Technology, 2020 (Journal Indexed in SCI Expanded)
- XIX. **Fuel consumption and emission comparison of conventional and hydrogen feed vehicles**  
BALCI Ö., Karagöz Y., KALE S., Damar S., ATTAR A., Köten H., DALKILIÇ A. S. , Wongwises S.  
International Journal of Hydrogen Energy, 2020 (Journal Indexed in SCI Expanded)
- XX. **Experimental study on evaporative heat transfer and pressure drop of R-134a in a horizontal dimpled tube**  
Aroonrat K., Ahn H. S. , Jerng D., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.  
International Journal of Heat and Mass Transfer, vol.144, 2019 (Journal Indexed in SCI)
- XXI. **Application of the heat pipe to enhance the performance of the vapor compression refrigeration system**  
Nakkaew S., Chitiphalungsri T., Ahn H. S. , Jerng D. W. , Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.15, 2019 (Journal Indexed in SCI)
- XXII. **An experimental investigation on heat transfer characteristics of graphite-SiO<sub>2</sub>/water hybrid nanofluid flow in horizontal tube with various quad-channel twisted tape inserts**  
Dalkılıç A. S. , Türk O. A. , Mercan H., Nakkaew S., Wongwises S.  
International Communications in Heat and Mass Transfer, vol.107, pp.1-13, 2019 (Journal Indexed in SCI)
- XXIII. **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**  
Açıkgöz Ö., Karakoyun Y., Yumurtacı Z., Dukhan N., Dalkılıç A. S.  
ENERGY AND BUILDINGS, vol.183, pp.515-526, 2019 (Journal Indexed in SCI)
- XXIV. **Sizing charts of helical capillary tubes used in refrigeration and air conditioning**  
Chingulpitak S., Mahian O., DALKILIÇ A. S. , Asirvatham L. G. , Wongwises S.  
SCIENCE AND TECHNOLOGY FOR THE BUILT ENVIRONMENT, vol.25, no.1, pp.1-10, 2019 (Journal Indexed in SCI)
- XXV. **Thermal performance of plate fin heat sink combined with copper foam**  
Nilpueng K., Amani J., DALKILIÇ A. S. , Asirvatham L. G. , Mahian O., Wongwises S.  
Heat Transfer Research, vol.50, no.16, pp.1595-1613, 2019 (Journal Indexed in SCI)
- XXVI. **Experimental study on the thermal conductivity of water-based CNT-SiO<sub>2</sub> hybrid nanofluids**  
Dalkılıç A. S. , Yalçın G., Küçükıldırım B. O. , Öztuna S., Akdoğan Eker A., Jumholkul C., Nakkaew S., Wongwises S.  
International Communications in Heat and Mass Transfer, vol.99, pp.18-25, 2018 (Journal Indexed in SCI)
- XXVII. **Experimental investigation on the viscosity characteristics of water based SiO<sub>2</sub>-graphite hybrid nanofluids**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O. , Eker A., Lüleci B., Jumholkul C., Wongwises S.  
International Communications in Heat and Mass Transfer, vol.97, pp.30-38, 2018 (Journal Indexed in SCI Expanded)
- XXVIII. **Investigation of boiling heat transfer characteristics of R134a flowing in smooth and microfin tubes**  
Celen A., Cebi A., Dalkılıç A. S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.93, pp.21-33, 2018 (Journal Indexed in SCI)
- XXIX. **A model of energy management analysis, case study of a sugar factory in Turkey**  
Taner T., Sivrioglu M., Topal H., DALKILIÇ A. S. , Wongwises S.

SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.43, no.3, 2018 (Journal Indexed in SCI)

- XXX. **Effect of surface roughness on the condensation of R-134a in vertical chevron gasketed plate heat exchangers**  
Soontarapiromsook J., Mahian O., Dalkılıç A. S. , Wongwises S.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.91, pp.54-63, 2018 (Journal Indexed in SCI)
- XXXI. **An experimental investigation devoted to determine heat transfer characteristics in a radiant ceiling heating system**  
Koca A., Açıkğöz Ö., Çebi A., Çetin G., Dalkılıç A. S. , Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.54, pp.363-375, 2018 (Journal Indexed in SCI)
- XXXII. **Experimental investigation on the flow boiling of R134a in a multi-microchannel heat sink**  
Dalkılıç A. S. , Ozman C., Sakamatapan K., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.91, pp.125-137, 2018 (Journal Indexed in SCI)
- XXXIII. **Experimental Study on the Stability and Viscosity for the Blends of Functionalized MWCNTs with Refrigeration Compressor Oils**  
Dalkılıç A. S. , Mahian O., Kucukyildirim B. O. , Eker A. A. , Ozturk T. H. , Jumpholkul C., Wongwises S.  
CURRENT NANOSCIENCE, vol.14, pp.216-226, 2018 (Journal Indexed in SCI)
- XXXIV. **A complete evaluation method for the experimental data of flow boiling in smooth tubes**  
Celen A., Dalkılıç A. S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.89, pp.108-121, 2017 (Journal Indexed in SCI)
- XXXV. **Experimental investigation of single-phase turbulent flow of R-134a in a multiport microchannel heat sink**  
Dalkılıç A. S. , Mahian O., Yılmaz S., Sakamatapan K., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.89, pp.47-56, 2017 (Journal Indexed in SCI)
- XXXVI. **Prediction of frictional pressure drop of R134a during condensation inside smooth and corrugated tubes**  
DALKILIÇ A. S. , Çebi A., AÇIKGÖZ Ö., WONGWISES S.  
International Communications in Heat and Mass Transfer, vol.88, pp.183-193, 2017 (Journal Indexed in SCI)
- XXXVII. **An experimental study to determine the maximum efficiency index in turbulent flow of SiO<sub>2</sub>/water nanofluids**  
Jumpholkul C., Mahian O., Kasaeian A., DALKILIÇ A. S. , Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.112, pp.1113-1121, 2017 (Journal Indexed in SCI)
- XXXVIII. **Natural convection heat transfer from horizontal concentric and eccentric cylinder systems cooling in the ambient air and determination of inner cylinder location**  
ATAYILMAZ Ş. Ö. , DEMİR H., SEVİNDİR M. K. , AĞRA Ö., Teke İ., DALKILIÇ A. S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.53, no.8, pp.2677-2692, 2017 (Journal Indexed in SCI)
- XXXIX. **Artificial neural network modeling of nanofluid flow in a microchannel heat sink using experimental data**  
Tafarroj M. M. , Mahian O., Kasaeian A., Sakamatapan K., DALKILIÇ A. S. , Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.86, pp.25-31, 2017 (Journal Indexed in SCI)
- XL. **Experimental investigation of frost issue on various evaporators having different fin types**  
Olçay A. B. , Avci P., Bayrak E., Dalkılıç A. S. , Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.86, pp.190-198, 2017 (Journal Indexed in SCI)
- XLI. **A novel ANN-based approach to estimate heat transfer coefficients in radiant wall heating systems**  
AÇIKGÖZ Ö., Cebi A., DALKILIÇ A. S. , KOCA A., CETIN G., Gemici Z., WONGWISES S.  
ENERGY AND BUILDINGS, vol.144, pp.401-415, 2017 (Journal Indexed in SCI)

- XLII. **Evaluation of the performance of the empirical correlations used to predict R134a's boiling frictional pressure drop inside smooth and corrugated tubes**  
DALKILIÇ A. S. , Cebi A., Celen A., AWAD M. M. , WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.81, pp.8-18, 2017 (Journal Indexed in SCI)
- XLIII. **Prediction of friction factor of pure water flowing inside vertical smooth and microfin tubes by using artificial neural networks**  
ÇEBİ A., AKDOĞAN E., Celen A., DALKILIÇ A. S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.53, no.2, pp.673-685, 2017 (Journal Indexed in SCI)
- XLIV. **Experimental investigation on the viscosity of Water-CNT and Antifreeze-CNT nanofluids**  
Dalkılıç A. S. , Küçükyıldırım B. O. , Eker A., Cebi A., Tapan S., Jumpholkul C., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.80, pp.47-59, 2017 (Journal Indexed in SCI)
- XLV. **AIR-SIDE PERFORMANCE OF A MICRO-CHANNEL HEAT EXCHANGER IN WET SURFACE CONDITIONS**  
Srisomba R., Asirvatham L. G. , Mahian O., DALKILIÇ A. S. , Awad M. M. , Wongwises S.  
THERMAL SCIENCE, vol.21, no.1, pp.375-385, 2017 (Journal Indexed in SCI)
- XLVI. **Determination of Optimum Velocity for Various Nanofluids Flowing in a Double-Pipe Heat Exchanger**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., GÜMÜŞ M. A. , WONGWISES S.  
HEAT TRANSFER ENGINEERING, vol.38, no.1, pp.11-25, 2017 (Journal Indexed in SCI)
- XLVII. **Fundamental basis and implementation of shell and tube heat exchanger project design: condenser and evaporator study**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., TAPAN Ş., WONGWISES S.  
HEAT AND MASS TRANSFER, vol.52, no.12, pp.2863-2878, 2016 (Journal Indexed in SCI)
- XLVIII. **Effect of hydrogen-diesel dual-fuel usage on performance, emissions and diesel combustion in diesel engines**  
Karagoz Y., Sandalci T., Yüksek L., Dalkılıç A. S. , Wongwises S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.8, 2016 (Journal Indexed in SCI)
- XLIX. **Empirical correlations for the determination of R134a's convective heat transfer coefficient in horizontal and vertical evaporators having smooth and corrugated tubes**  
Dalkilic A. S. , CELEN A., Çebi A., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.76, pp.85-97, 2016 (Journal Indexed in SCI)
- L. **An experimental study on two-phase flow patterns and heat transfer characteristics during boiling of R134a flowing through a multi-microchannel heat sink**  
Thiangtham P., Keepaiboon C., Kiatpachai P., Asirvatham L. G. , Mahian O., DALKILIÇ A. S. , Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.98, pp.390-400, 2016 (Journal Indexed in SCI)
- LI. **Effect of the use of natural gas diesel fuel mixture on performance emissions and combustion characteristics of a compression ignition engine**  
KARAGÖZ Y., SANDALCI T., KÖYLÜ Ü., DALKILIÇ A. S. , WONGWISES S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, pp.1-13, 2016 (Journal Indexed in SCI Expanded)
- LII. **Prediction of graphite nanofluids' dynamic viscosity by means of artificial neural networks**  
Dalkılıç A. S. , Cebi A., Celen A., Yıldız O., Açikgöz Ö., Jumpholkul C., Bayrak M., Surana K., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.73, pp.33-42, 2016 (Journal Indexed in SCI)
- LIII. **Viscosity of nanofluids: A review of recent experimental studies**  
Bashirnezhad K., Bazri S., Safaei M. R. , Goodarzi M., Dahari M., Mahian O., Dalkilica A. S. , Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.73, pp.114-123, 2016 (Journal Indexed in SCI)
- LIV. **Pressure drop characteristics of R134a during flow boiling in a single rectangular micro-channel**  
Keepaiboon C., Thiangtham P., Mahian O., DALKILIÇ A. S. , Wongwises S.  
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**LXVI. Thermodynamic analysis of solar heat pump assisted heating systems**

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**LXVII. Application of artificial neural networks to predict heat transfer from buried pipe for ground source heat pump applications**

DEMİR H., Atayılmaz Ö. Ş. , AĞRA Ö., DALKILIÇ A. S.

ASME 2013 Heat Transfer Summer Conference, HT 2013 Collocated with the ASME 2013 7th International Conference on Energy Sustainability and the ASME 2013 11th International Conference on Fuel Cell Science, Engineering and Technology, Minneapolis, MN, United States Of America, 14 - 19 July 2013, vol.4

**LXVIII. A critical review on the determination of convective heat transfer coefficient during condensation in smooth and enhanced tubes**

DALKILIÇ A. S. , Celen A., Awad M. M. , WONGWISES S.

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**LXIX. Fundamental basis and application of cold-room project design: A case study of frigoship**

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**LXX. A critical review on the determination of pressure drop during condensation in smooth and enhanced tubes**

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**LXXI. A critical review on the determination of convective pressure drop during condensation in smooth and enhanced tubes**

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**LXXIII. PREDICTION OF PRESSURE DROP OF VARIOUS REFRIGERANTS DURING CONDENSATION IN HORIZONTAL SMOOTH AND MICRO-FIN TUBES BY MEANS OF ARTIFICIAL NEURAL NETWORKS**

Balcılar M., Dalkılıç A. S. , Atayılmaz Ş. Ö. , Demir H., Wongwises S.

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- LXXXV. **Determination of two-phase flow void fraction of R600a in a horizontal smooth tube**  
AĞRA Ö., DEMİR H., ATAYILMAZ Ş. Ö. , YURTSEVEN A., DALKILIÇ A. S. , WONGWISES S.  
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- LXXXVII. **Numerical investigation of the single phase forced convection heat transfer characteristics of nanofluid flowing in smooth and micro-fin tubes**  
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- LXXXVIII. **Effect of the heat recovery system to the performance of air handling unit of a shopping centre of a shopping centre**  
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- LXXXIV. **Optimization of the relationship between the two-phase friction factor and reynolds equivalent number model by means of genetic algorithm**  
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- XCIV. **Comparison of condensation frictional pressure drop models and correlations during annular flow of R134a inside a vertical tube**  
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- XCV. **Experimental research on the comparison of LDA and PIV measuring systems for the determination of the air velocity inside a square channel**  
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- XCVII. **Experimental apparatus for the determination of nusselt and rayleigh numbers during natural convection from a heated horizontal cylinder**  
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- CII. **Two-phase friction factor obtained from various void fraction models during condensation of R134A in vertical downward flow at high mass flux**  
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- CIII. **A heat transfer model for co-current downward laminar film condensation of R134a in a vertical micro-fin tube during annular flow regime**  
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DALKILIÇ A. S. , KIRKAR Ş. M. , KOYUN A., AÇIKGÖZ Ö., AKYOL E., KIRBOĞA OKUMUŞ S., Önal B. S. , Akgül D., WONGWISES S., CELEN A., Project Supported by Higher Education Institutions, İki Fazlı Akışlarda İyileştirilmiş Düz ve Helezon Borularda Isı Transferi Katsayısı ve Basınç Düşümünün Deneysel Araştırılması, 2019 - Continues

Dalkılıç A. S. , Celen A., Ekici E., Bilge Z. D. , Wongwises S., Çebi A., Project Supported by Other Official Institutions, Nano Soğutucu Akışkanlı Buhar Sıkıştırma Soğutma Çevriminin Performansının Deneysel Olarak İncelenmesi, 2015 - 2018

TEMİR G., DALKILIÇ A. S. , KARAKOYUN Y., AKDOĞAN EKER A., AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O. , Project Supported by Higher Education Institutions, Nano akışkanlarla radyant döşemeden ısıtmanın konveksiyon ve radyasyon açısından incelenmesi, 2015 - 2018

Dalkılıç A. S. , Koyun A., Teke İ., Temir G., Çebi A., Wongwises S., Celen A., Project Supported by Higher Education Institutions, Tek Fazlı Akışta İç Yüzeyle İyileştirilmiş Borularda Isı Transferi Karakteristiklerinin Deneysel ve Nümerik Olarak İncelenmesi, 2013 - 2017

Dalkılıç A. S. , Kürekci N. A. , Demir H., Çengel Y., Teke İ., Project Supported by Higher Education Institutions, Nano Sıvıların Havuz Kaynaması ve Konvektif Kaynama Karakteristiklerinin Araştırılması, 2009 - 2012

Dalkılıç A. S. , Temir G., Sevindir M. K. , Teke İ., Wongwises S., Project Supported by Other Official Institutions, Boru ve Kanal İçinde Yoğuşmada Isı Transferi İyileştirme Tekniklerinin İncelenmesi, 2009 - 2012

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## Activities in Scientific Journals

Sigma Journal of Engineering and Natural Sciences, First Editor, 2021 - Continues

Journal of Thermal Engineering, First Editor, 2014 - Continues

## Scientific Refereeing

Simulation of the Response of a Closed Two-Phase Vertical Thermosyphon/Applied Thermal Engineering, SCI Journal, October 2012

MEASUREMENT OF THERMAL CONDUCTIVITY OF FLUID USING SINGLE AND DUAL WIRE TRANSIENT TECHNIQUES/Measurement, SCI Journal, October 2012

Numerical Study of Ejector as an Expansion Device in Split-type Air Conditioner for, SCI Journal, October 2012

Viscosity of ethylene glycol and water mixture based nanofluid containing low volume concentrations of Al<sub>2</sub>O<sub>3</sub> and CuO nanoparticles/Nanoscience and Nanotechnology Letters, SCI Journal, October 2012

Energy Efficiency enhancement of a Domestic Refrigerator by Using R436A and R600a as Alternative Refrigerants to R134a/International Journal of Thermal Sciences, SCI Journal, September 2012

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Ag/water nanofluids/Polish Journal of Chemical Technology, SCI Journal, June 2012

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Using an Artificial Neural Network (ANN) to Predict the Natural Convection from a Confined Horizontal Isothermal Elliptic Cylinder/Journal of Mechanical Science and Technology, SCI Journal, March 2012

ASSESSMENT OF A RETROFITTED R134a REFRIGERATOR WITH A LOW GLOBAL WARMING POTENTIAL REFRIGERANT /Environmental Engineering and Management Journal, SCI Journal, February 2012

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Numerical and experimental studies on film condensation of R134a in a vertical smooth tube/Research Paper/Engineering Applications of Computational Fluid Mechanics, SCI Journal, December 2011

Influence Mechanism on Flow and Heat Transfer Characteristics for Air-cooled Steam Condenser Cells/Research Paper/Heat and Mass Transfer, SCI Journal, October 2011

INVESTIGATION OF THE CONDENSATION IN THE MICRO CHANNEL FLAT TUBES WITH ARTIFICIAL NEURAL NETWORKS/Research Paper/International Journal of Heat and Mass Transfer, SCI Journal, October 2011

Design of Condensation Heat Exchanger for the PAFS (Passive Auxiliary Feedwater System) of Korean APR plus (Advanced Power Reactor Plus)/Research Paper/Applied Thermal Engineering, SCI Journal, September 2011

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Experimental Investigation of Air-Side Heat Transfer and Fluid Flow Performances of Multi-Port Serpentine Crossflow Mesochannel Heat Exchanger/Research Paper/International Journal of Heat and Fluid Fl, SCI Journal, February 2011

Steam Water Pressure Drop under High Pressure Condition/Research Paper/ ASME Journal of Heat Transfer, SCI Journal, February 2011

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An optimal parametric design to improve pool boiling heat transfer of sintered surfaces/Research Paper/Applied Thermal Engineering, SCI Journal, January 2011

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Experimental evaluation of HCFC-22 replacement by the drop-in fluids HFC-422A and HFC-417B for low temperature refrigeration applications/Research Paper/Applied Thermal Engineering, SCI Journal, December 2010

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Comparative Investigation on Evaporator Heat Transfer Characteristics of Revolving Heat Pipe Filled with R134a, R22 and R410A/Research Paper/International Journal of Heat and Mass Transfer, SCI Journal, June 2010

Numerical study of gap size effect for non-condensable gas ventilation types in the McAllister Condensers/Research Paper/Desalination, SCI Journal, April 2010

## Tasks In Event Organizations

Dalkılıç A. S. , Güneri A. F. , Çakır O., 4th International Conference on Advances in Mechanical Engineering Istanbul 2018, Scientific Congress, İstanbul, Turkey, Aralık 2019

Dalkılıç A. S. , 3rd International Conference on Advances in Mechanical Engineering Istanbul 2017, Scientific Congress, İstanbul, Turkey, Aralık 2019

Dalkılıç A. S. , Çakır O., Güneri A. F. , 5th International Conference on Advances in Mechanical Engineering Istanbul 2019, Scientific Congress, İstanbul, Turkey, Aralık 2019

Dalkılıç A. S. , 1st International Conference on Advances in Mechanical Engineering Istanbul 2015, Scientific Congress, İstanbul, Turkey, Mayıs 2019

Dalkılıç A. S. , Öztıp H. F. , International Conference on Energy and Thermal Engineering: Istanbul 2017, Scientific Congress, İstanbul, Turkey, Nisan 2017

Dalkılıç A. S. , Işın Ö., Sandalcı T., International Conference on Advances in Automotive Technologies 2016 - AAT2016, Scientific Congress, İstanbul, Turkey, Ekim 2016

Dalkılıç A. S. , 2nd International Conference on Advances in Mechanical Engineering Istanbul 2016, Scientific Congress, İstanbul, Turkey, Mayıs 2016

Dalkılıç A. S. , Yumurtacı Z., International Energy Technologies Conference, Scientific Congress, İstanbul, Turkey, Aralık 2014

## Mobility Activity

Post Doc, Post Doc, King Mongkut's University of Technology Thonburi, Thailand, 2007 - 2008

## Edit Congress and Symposium Activities

5th International Conference on Advances in Mechanical Engineering Istanbul 2019, Working Group, İstanbul, Turkey, 2019

TÜBİTAK (ARDEB) ARŞ. DESTEK PROGRAMLARI BAŞKANLIĞI, Panelists, Ankara, Turkey, 2019

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KOSGEB, KOBİ TEKNOLOJİK URÜN YATIRIM DESTEK PROGRAMI, Panelists, İstanbul, Turkey, 2019

TÜBİTAK (ARDEB) ARŞ. DESTEK PROGRAMLARI BAŞKANLIĞI, Panelists, İstanbul, Turkey, 2019

4th International Conference on Advances in Mechanical Engineering Istanbul 2018, Working Group, İstanbul, Turkey, 2018

International Engineering and Technology Symposium, Working Group, Batman, Turkey, 2018

TÜBİTAK (ARDEB) ARŞ. DESTEK PROGRAMLARI BAŞKANLIĞI, Panelists, Ankara, Turkey, 2017

3rd International Conference on Advances in Mechanical Engineering Istanbul 2017, Working Group, İstanbul, Turkey, 2017

TÜBİTAK (ARDEB) ARŞ. DESTEK PROGRAMLARI BAŞKANLIĞI, Panelists, Ankara, Turkey, 2017  
International Conference on Thermal and Fluid Engineering: Thailand 2017, Working Group, Phuket, Thailand, 2017  
International Conference on Energy and Thermal Engineering: Istanbul 2017, Working Group, İstanbul, Turkey, 2017  
Istanbul International Conference on Science and Arts, Working Group, İstanbul, Turkey, 2017  
Istanbul International Conference on Progress in Applied Sciences , Working Group, İstanbul, Turkey, 2017  
Conference of the International Journal of Arts & Sciences , Working Group, Barcelona, Spain, 2016  
International Conference on Advances in Automotive Technologies 2016 - AAT2016, Working Group, İstanbul, Turkey, 2016  
International Conference on Mechanical and Production Engineering, Working Group, Rayong, Thailand, 2016  
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TÜBİTAK TEYDEP, Panelists, Ankara, Turkey, 2016  
International Conference on Energy Systems, Working Group, İstanbul, Turkey, 2015  
ASME 2015 International Mechanical Engineering Congress & Exposition , Working Group, Texas, United States Of America, 2015  
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TÜBİTAK TEYDEP , Panelists, Ankara, Turkey, 2015  
International Energy Technologies Conference, Working Group, İstanbul, Turkey, 2014  
15th International Heat Transfer Conference, Working Group, Kyoto, Japan, 2014  
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