

Prof. Ahmet  
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DALKILIC



## Personal Information

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**Address:** Yıldız Teknik Üniversitesi  
Barbaros Bulvarı E1 Blok Kat2 No17  
Yıldız Beşiktaş 34349 İstanbul



## International Researcher IDs

ScholarID: 7ma2im4AAAAJ

ORCID: 0000-0002-5743-3937

Publons / Web Of Science ResearcherID:  
G-2274-2011

ScopusID: 24479329000

Yoksis Researcher ID: 107304

## Education Information

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

Doctorate, Yıldız Technical University,  
Makina Fakültesi, Makina Mühendisliği,  
Turkey 1999 - 2006

Postgraduate, Yıldız Technical University,  
Makina Fakültesi, Makina Mühendisliği,  
Turkey 1996 - 1999

Undergraduate, Yıldız Technical  
University, Makina Fakültesi, Makina  
Mühendisliği, Turkey 1992 - 1996

## Biography

Ahmet Selim Dalkilic obtained his B.S., MS., and Ph.D. degrees from Yıldız Technical University in İstanbul, Turkey. Following his Ph.D. work on in-tube condensation phenomena at smooth and corrugated tubes during turbulent flow, he conducted his post-Ph.D. work at King Mongkut's University of Technology Thonburi, Bangkok, Thailand, between 2006 and 2007. This work was a continuation of his PhD work on in-tube condensation phenomena in smooth and microfin tubes during laminar flow. The ScholarGPS website ranks him among the top 100 researchers on condensation and 644 researchers on heat transfer worldwide. Stanford University also ranks him among the top 2% of most successful scientists. He served as a member of the Elsevier-sponsored Innovation Explorer for Scientific Researchers to evaluate Elsevier journals' websites from 2009 to 2012. Currently, he holds a full professor position in the Mechanical Engineering Department and serves as the editor-in-chief of the Journal of Thermal Engineering, a Q3 journal with ESCI and SCOPUS indexes, which he founded in 2014. Since 2021, he has also served as the

editor-in-chief of the Sigma Journal of Engineering and Natural Sciences, maintaining the same qualifications. His research activities encompass a broad range of thermal sciences, with a particular focus on convection and HVAC applications in enclosures, heat exchangers, including enhanced tubes, microchannels, and heat sinks during single- and two-phase flows. Recently, his research group has been developing technologies that utilize CFD methods for simulating experimental heat transfer problems, machine learning techniques for heat transfer applications, nanoparticles for determining their physical properties, conditioning for stability, and flows in enhanced tubes or channels. He has received several international awards from conferences and innovation exhibitions for his contribution in the field of heat transfer and two-phase flows. Every year, his university awards him for being among the most successful researchers. In addition, he has been one of the most successful academicians in his faculty for more than 15 years. Moreover, he has organized many international conferences with broad participation as their chairman or co-chairman since 2015 and authored or co-authored more than 350 reviewed publications.

**Academic Performance in Yildiz Technical University's Mechanical Engineering Department and Faculty**

<b>Year</b>	<b>Academic Performance Score</b>	<b>Rank Amongst Professor in Faculty</b>	<b>Rank Amongst All Researchers in Faculty</b>	<b>Rank Amongst Professor in Department</b>	<b>Rank Amongst All Researchers in Department</b>
<b><u>Past</u></b>	1735.15*	3/169	4/263	3/52	4/70
<b><u>2014</u></b>	347.42*	1/145	1/227	1/50	1/69
<b><u>2015</u></b>	349.45*	1/143	1/229	1/49	1/72
<b><u>2016</u></b>	573.99*	1/141	1/225	1/49	1/72
<b><u>2017</u></b>	758.55*	1/139	1/220	1/49	1/72
<b><u>2018</u></b>	684.78*	2/140	2/222	2/49	2/73
<b><u>2019</u></b>	733.53*	2/140	2/222	2/49	2/73
<b><u>2020</u></b>	866.00*	2/142	2/229	2/50	2/74
<b><u>2021</u></b>	899.24*	2/144	2/234	2/50	2/74
<b><u>2022</u></b>	1132.60*	1/146	1/243	1/50	1/74
<b><u>2023</u></b>	246.76*	2/146	4/244	2/50	4/74
<b><u>2024</u></b>	322.49*	3/147	3/246	2/50	2/74
<b><u>TOTAL</u></b>	8649.96*	1/115	1/179	1/46	1/65

\* : Weighted Score

Year	Academic Performance Score	Rank Amongst Professor in Faculty	Rank Amongst All Researchers in Faculty	Rank Amongst Professor in Department	Rank Amongst All Researchers in Department
<a href="#">Past</a>	1735.15*	3/169	4/263	3/52	4/70
<a href="#">2014</a>	347.42*	1/145	1/227	1/50	1/69
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<a href="#">2018</a>	684.78*	2/140	2/222	2/49	2/73
<a href="#">2019</a>	733.53*	2/140	2/222	2/49	2/73
<a href="#">2020</a>	866.00*	2/142	2/229	2/50	2/74
<a href="#">2021</a>	899.24*	2/144	2/234	2/50	2/74
<a href="#">2022</a>	1132.60*	1/146	1/243	1/50	1/74
<a href="#">2023</a>	246.76*	2/146	4/244	2/50	4/74
<a href="#">2024</a>	322.49*	3/147	3/246	2/50	2/74
<a href="#">TOTAL</a>	8649.96*	1/115	1/179	1/46	1/65

\* : Weighted Score

## 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

Postgraduate, 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

## 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

Editor-in Chief, Yildiz Technical University, Rectorate, Rectorate, 2021 - Continues

Mevlana Exchange Program Coordinator, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2018 - Continues

Editor-in Chief, Yildiz Technical University, Rectorate, Rectorate, 2014 - 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, Undergraduate, 2018 - 2019

Akışkanlar Mekaniği 1, Undergraduate, 2018 - 2019, 2017 - 2018, 2014 - 2015, 2013 - 2014, 2012 - 2013

Akıllı Binalarda Mekanik Tesisat ve Elemanları , Undergraduate, 2019 - 2020, 2017 - 2018, 2015 - 2016

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2019 - 2020

Soğutma ve İklimlendirme Esasları, Undergraduate, 2018 - 2019

Isı Transferi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

İleri Termodinamik, Postgraduate, 2019 - 2020

Akışkanlar Mekaniği 1, Undergraduate, 2019 - 2020

Thermodynamics, Undergraduate, 2018 - 2019

Isı Değiştiricileri, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013

Enerji Sistemlerinin II. Kanun Analizi ve Ekserji, Postgraduate, 2018 - 2019, 2015 - 2016

İklimlendirme ve Akıllı Sistemler, Postgraduate, 2018 - 2019, 2017 - 2018

Seminer, Postgraduate, 2016 - 2017, 2015 - 2016

İklimlendirmede Yalıtım Sistemleri, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Bina Otomasyonu ve İşletmesi, Undergraduate, 2016 - 2017, 2015 - 2016

Isı Transferi 1, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Termodinamik 1, Undergraduate, 2013 - 2014

Konveksiyon ve Radyasyonda Özel Konular, Postgraduate, 2012 - 2013

Thermodynamics 2 , Undergraduate, 2011 - 2012

Fluid Mechanics, Undergraduate, 2011 - 2012

Termodinamik 2, Undergraduate, 2012 - 2013

Thermodynamics 1, Undergraduate, 2011 - 2012

Makina Mühendisliğine Giriş 2, Undergraduate, 2011 - 2012

## Advising Theses

Dalkılıç A. S., Doctorate, S.BÜŞRA(Student), 2024

Dalkılıç A. S., Çolak A. B., Denizaltılarda Optimum Yalıtım Kalınlığının Belirlenmesi, Postgraduate, S.DURMAZ(Student), 2022

Dalkılıç A. S., Sözbir N., Yer Sabit Uydularda Isıl Kontrol Sistemi Ön Tasarımı Ve Sonlu Elemanlar Metodunda Ağ Yapısı/Simülasyon Parametrelerinin Optimizasyonu, Postgraduate, Y.MURAT(Student), 2022

Dalkılıç A. S., Açıkgöz Ö., BİR YÜZEYİNE RADYANT SOĞUTMA UYGULANAN KAPALI BİR HACİMDE CEBRİ HAVALANDIRMANIN ISI GEÇİŞİ KARAKTERİSTİKLERİNE ETKİSİNİN İNCELENMESİ , Doctorate, M.CAMCI(Student), 2022

Dalkılıç A. S., YÜKSEK ALEV HIZLARINA SAHİP ENDÜSTRİYEL YAKICILARDA YANMA SONUCU OLUŞAN EMİSYONLARIN DENEYSEL VE NÜMERİK OLARAK İNCELENMESİ, Postgraduate, B.Kılıç(Student), 2022

Dalkılıç A. S., Boğoçlu M. E., Development Of A Predictive Model Using Fully Connected Neural Networks In The Analysis Of Composite Structures Subjected To Bird Strike , Doctorate, Z.HASILCI(Student), 2022

Akyol E., Dalkılıç A. S., Katkı Maddesi Varlığında Nano Titanyum Dioksit Eldesi Ve Nanoakışkan Olarak Kullanımının İncelenmesi, Postgraduate, R.ARSLAN(Student), 2022

Dalkılıç A. S., Mercan H., Helezon borulu ısı değiştiricilerinin optimizasyonu, Postgraduate, D.AKGÜL(Student), 2021

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

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

Dalkılıç A. S., Dört kanallı burulmuş şerit eklenmiş düz boru içerisinde hibrit nano partiküllü su akışında ısı transferi ve basınç düşümünün deneysel olarak incelenmesi, Postgraduate, O.ALPEREN(Student), 2020

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

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

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

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

Dalkılıç A. S., AĞIR TİCARİ ARAÇLARDA RADYATÖR KAPASİTESİNİN DENEYSEL OLARAK TAYİNİ, Postgraduate, 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., Bayrak M., Grafit bazlı bir nanosivinin ticari bir mikrokanalda soğutma performansının deneysel olarak incelenmesi, Doctorate, O.YILDIZ(Student), 2018

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

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

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

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

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

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

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

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

## Jury Memberships

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

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

- I. **A comparison of heating and cooling systems having radiant and ventilation systems regarding thermal comfort**  
Rahmanparast A., Bacak A., Camci M., Karakoyun Y., Acikgoz O., Dalkılıç A. S.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.11, pp.13551-13579, 2024 (SCI-Expanded)
- II. **Investigation on the heat transfer and pressure loss of flow boiling in smooth and microfin tubes using machine learning methods**  
Sezer Ş., Sezer C., Celen A., Bacak A., Dalkılıç A. S.  
Journal of Thermal Analysis and Calorimetry, vol.150, no.12, pp.1-21, 2024 (SCI-Expanded)
- III. **Parametric Evaluation of a Single Cylinder Diesel Engine Fueled with Goat-Urine Emulsified Diesel**  
Katara P., Kumbhar V. S., Tirpude R. B., Dalkilic A. S., Chan C. K.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, pp.1-12, 2024 (SCI-Expanded)
- IV. **Assessment of heat transfer characteristics of a corrugated heat exchanger based on various corrugation parameters using artificial neural network approach**  
Çolak A. B., Kirkar S. M., Gönül A., Dalkilic A. S.  
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.108, pp.1-15, 2024 (SCI-Expanded)
- V. **Effects of facades positioned at different angles on building thermal performance and flow behaviors**  
Amani-Beni M., Tabatabaei Malazi M., Sahin B., Dalkılıç A. S.  
FRONTIERS OF ARCHITECTURAL RESEARCH, vol.23, no.September, pp.1-15, 2024 (AHCI)
- VI. **Effect of particle size on SiO<sub>2</sub> nanofluid viscosity determined by a two-step method**  
Yalçın G., Öztuna S., Dalkılıç A. S., Wongwises S.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.9, pp.13681-13696, 2024 (SCI-Expanded)
- VII. **Air thermal management platform assessment in centralized and decentralized air-conditioning systems**  
Salman A. S., Abdulkarim A. H., Ali Q. A., Ayad K. A., Koca A., Epaarachchi J., Dalkilic A. S.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.8, pp.12399-12415, 2024 (SCI-Expanded)
- VIII. **CFD and ANN analyses for the evaluation of the heat transfer characteristics of a rectangular microchannel heat sink with various cylindrical pin-fins**  
Tabatabaei Malazi M., Kaya K., Çolak A. B., Dalkılıç A. S.  
HEAT AND MASS TRANSFER/WÄRME- UND STOFFÜBERTRAGUNG, vol.60, no.7, pp.1393-1411, 2024 (SCI-Expanded)
- IX. **PREDICTION OF THE OPERATIONAL PERFORMANCE OF A VEHICLE SEAT THERMAL MANAGEMENT SYSTEM USING STATISTICAL AND MACHINE LEARNING TECHNIQUES**  
Ghareeb A., Abdulkarim A. H., Salman A. S., Kakei A., Canli E., Chiasson A., Choi J., Dalkılıç A. S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.1, pp.1-10, 2024 (SCI-Expanded)
- X. **Investigating hermetic reciprocating compressor performance by using various machine learning methods**  
Bacak A., Çolak A. B., DALKILIÇ A. S.  
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.238, no.11, pp.5369-5384, 2024 (SCI-Expanded)
- XI. **An experimental study on the determination of a hermetic reciprocating compressor's discharge and suction losses**  
Bacak A., PINARBAŞI A., DALKILIÇ A. S.  
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, vol.238, no.3, pp.1330-1344, 2024 (SCI-Expanded)
- XII. **Determination of dynamic viscosity and stability for single and hybrid nanofluids of SiO<sub>2</sub>, TiO<sub>2</sub>, MWCNT and ZnO nanoparticles**  
Atmaca B., Yalçın G., Küçükyıldırım B. O., Arkadumnuay T., Leunanonchai W., Manova S., Dalkılıç A. S., Wongwises S.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.4, pp.6715-6735, 2024 (SCI-Expanded)
- XIII. **Improving pressure drop predictions for R134a evaporation in corrugated vertical tubes using a machine learning technique trained with the Levenberg–Marquardt method**  
Çolak A. B., Bacak A., Karakoyun Y., Koca A., Dalkilic A. S.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.4, pp.5497-5509, 2024 (SCI-Expanded)
- XIV. **Enhancement of thermal and flow characteristics in helically coiled tubes with corrugated surfaces by Genetic Algorithm based optimization**  
Kirkar Ş. M., Gönül A., Selim Dalkilic A. S.  
International Journal of Heat and Fluid Flow, vol.106, 2024 (SCI-Expanded)
- XV. **Investigation on the effect of surfactants on the viscosity of graphite-water-based nanofluids**  
Yalçın G., Huminc G., Huminc A., Panchal H., Dalkılıç A. S.

- JOURNAL OF MOLECULAR LIQUIDS, vol.3, pp.1-15, 2024 (SCI-Expanded)
- XVI. **Prediction of performance parameters of a hermetic reciprocating compressor applying an artificial neural network**  
Bacak A., Çolak A. B., Dalkılıç A. S.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.238, pp.1-32, 2024 (SCI-Expanded)
- XVII. **Artificial neural network-based cooling capacity estimation of various radiator configurations for power transformers operated in ONAN mode**  
Koca A., Senturk O., Çolak A. B., Bacak A., Dalkilic A. S.  
Thermal Science and Engineering Progress, vol.50, no.5, pp.1-42, 2024 (SCI-Expanded)
- XVIII. **An artificial neural network-based numerical estimation of the boiling pressure drop of different refrigerants flowing in smooth and micro-fin tubes**  
Çolak A. B., Bacak A., KAYACI N., DALKILIÇ A. S.  
Kerntechnik, vol.89, no.1, pp.15-30, 2024 (SCI-Expanded)
- XIX. **Investigation of the thermal performance of a spiral fin-and-tube heat exchanger by numerical methods**  
Tabatabaei Malazi M., Apak S., Sezer C., Başoğlu H. C., Dalkılıç A. S.  
NUMERICAL HEAT TRANSFER, PART B: FUNDAMENTALS, vol.85, no.2, pp.1-21, 2024 (SCI-Expanded)
- XX. **Novel air duct designs to estimate the windshield demisting issue for a commercial vehicle**  
Akgunlu S., Özcan O., Bacak A., Gonul A., Taner T., Dalkilic A. S.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, vol.0, no.0, 2024 (SCI-Expanded)
- XXI. **Investigating a Hermetic Reciprocating Compressor Performance under Variable Lift Limiter Height using FSI Method**  
Bacak A., Pınarbaşı A., Dalkılıç A. S.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.1, no.2, pp.1-15, 2024 (SCI-Expanded)
- XXII. **Experimental and Machine Learning Research on a Multi-Functional Trombe Wall System**  
Aydin D., Rezaei M., Çolak A. B., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.33, no.4, pp.1-10, 2024 (SCI-Expanded)
- XXIII. **Prediction of performance parameters of a hermetic reciprocating compressor under different discharge lift limiter heights by machine learning**  
Bacak A., Çolak A. B., DALKILIÇ A. S.  
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2024 (SCI-Expanded)
- XXIV. **Investigation of the usage of nano-Titanium dioxide Produced with Polyethylene glycol and Alginate additives as nanofluid Polietilen glikol ve Alginat katkıları ile üretilen nano Titanyum dioksinin nanoakışkan olarak kullanımının incelenmesi**  
Arslan R., Akyol E., Dalkılıç A. S.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.40, no.1, pp.331-341, 2024 (SCI-Expanded)
- XXV. **Advances in Triple Tube Heat Exchangers Regarding Heat Transfer Characteristics of Single and Two-Phase Flows in Comparison to Double Tube Heat Exchangers Part 1**  
Akgul D., Mercan H., Acikgoz O., Dalkilic A. S.  
KERNTECHNIK, vol.88, no.6, pp.1-14, 2023 (SCI-Expanded)
- XXVI. **Advances in triple tube heat exchangers regarding heat transfer characteristics of single and two-phase flows in comparison to double tube heat exchangers part 2**  
Akgul D., Mercan H., Acikgoz O., Dalkilic A. S.  
KERNTECHNIK, vol.88, no.6, pp.1-14, 2023 (SCI-Expanded)
- XXVII. **Experimental and numerical investigations on the heat transfer characteristics of a real-sized radiant cooled wall system supported by machine learning**  
Çolak A. B., Acikgoz Ö., Karakoyun Y., Koca A., Dalkılıç A. S.  
International Journal of Thermal Sciences, vol.191, 2023 (SCI-Expanded)
- XXVIII. **A sensitivity analysis of the effect of curvature ratio on the thermal-hydraulic performance in helically coiled tubes with corrugated walls**  
Kirkar Ş. M., Gönül A., Dalkilic A. S.  
International Journal of Thermal Sciences, vol.190, 2023 (SCI-Expanded)

- XXIX. **Case studies on local mixed convection heat transfer coefficients along a radiant heated wall subjected to displacement ventilation**  
Camci M., Karakoyun Y., Açıköz Ö., Dalkılıç A. S.  
Journal of Thermal Analysis and Calorimetry, vol.148, no.15, pp.7845-7854, 2023 (SCI-Expanded)
- XXX. **Performance of refrigerants employed in rooftop air-conditioners**  
Suerdem K., Taner T., Açıköz Ö., Dalkılıç A. S., Panchal H.  
JOURNAL OF BUILDING ENGINEERING, vol.70, pp.1-19, 2023 (SCI-Expanded)
- XXXI. **A computational case study on the thermal performance of a rectangular microchannel having circular pin-fins**  
Malazi M. T., Kaya K., Dalkılıç A. S., Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.103111, no.June, pp.1-11, 2023 (SCI-Expanded)
- XXXII. **Forecasting natural gas demand in Istanbul by artificial neural networks method and planning of city gate stations**  
Balıkcı V., Gemici Z., Taner T., Dalkılıç A. S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.2, pp.1017-1028, 2023 (SCI-Expanded)
- XXXIII. **Multi-objective optimization of single-phase flow heat transfer characteristics in corrugated tubes**  
Kirkar Ş. M., Gönül A., Celen A., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.186, pp.1-21, 2023 (SCI-Expanded)
- XXXIV. **The influence of particle size on the viscosity of water based ZnO nanofluid**  
Yalçın G., Öztuna S., Dalkılıç A. S., Wongwises S.  
AEJ - ALEXANDRIA ENGINEERING JOURNAL, vol.68, pp.561-576, 2023 (SCI-Expanded)
- XXXV. **Reduction of emissions with cow urine as a catalyst in SCR system using response surface methodology**  
Tirpude R., Katare P., Rajurkar S., Awari G., DALKILIÇ A. S., Wongwises S.  
Alexandria Engineering Journal, vol.67, pp.707-721, 2023 (SCI-Expanded)
- XXXVI. **Prediction of heat transfer characteristics in a microchannel with vortex generators by machine learning**  
Gönül A., Çolak A. B., Kayaci N., Okbaz A., Dalkılıç A. S.  
Kerntechnik, vol.88, no.1, pp.80-99, 2023 (SCI-Expanded)
- XXXVII. **A new distributor selection methodology for refrigeration cycles**  
Hacimusalar H. A., Özdemir M. R., Sökücü M. H., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.29, no.1/2, pp.16-29, 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., Cuce E., Dalkılıç A. S., Alrubaie A. J., Jaber M. M.  
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.146, no.2, pp.1-10, 2023 (SCI-Expanded)
- XXXIX. **Estimation of heat transfer parameters of shell and helically coiled tube heat exchangers by machine learning**  
Çolak A. B., Akgül D., Mercan H., Dalkılıç A. S., Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.42, pp.1-12, 2023 (SCI-Expanded)
- XL. **Prediction of nanofluid flows' optimum velocity in finned tube-in-tube heat exchangers using artificial neural network**  
Çolak A. B., Mercan H., Açıköz Ö., Dalkılıç A. S., Wongwises S.  
Kerntechnik, vol.88, no.1, pp.100-113, 2023 (SCI-Expanded)
- XLI. **A 3-D FSI SIMULATION FOR THE PERFORMANCE PREDICTION AND VALVE DYNAMIC ANALYSIS OF A HERMETIC RECIPROCATING COMPRESSOR**  
Bacak A., Pınarbaşı A., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.150, no.2, pp.135-148, 2023 (SCI-Expanded)
- XLII. **Artificial neural network approach for investigating the impact of convector design parameters on the heat transfer and total weight of panel radiators**  
Calisir T., Çolak A. B., Aydın D., Dalkılıç A. S., Baskaya S.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.183, no.January, pp.1-12, 2023 (SCI-Expanded)
- XLIII. **Research on the influence of convector factors on a panel radiator's heat output and total weight with a machine learning algorithm**  
Calisir T., Çolak A. B., Aydın D., Dalkılıç A. S., Baskaya S.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, no.1, pp.1-10, 2023 (SCI-Expanded)
- XLIV. **Experimental investigation of selective catalytic reduction system on CI engine for NOx reduction using urea**



**and animal urine as catalyst**

Tirpude R. B., Katare P., Rajurkar S., Awari G., Karagöz Y., DALKILIÇ A. S., Wongwises S.  
International Journal of Global Warming, vol.30, no.1, pp.17-32, 2023 (SCI-Expanded)

- XLV. **An experimental investigation on the radiant cooled wall's heat transfer characteristics in a fully conditioned real-sized living environment**  
Koca A., Karakoyun Y., Acikgoz Ö., Dogu M., Dalkilic A. S.  
Energy and Buildings, vol.277, 2022 (SCI-Expanded)
- XLVI. **Discharging performance prediction of experimentally tested sorption heat storage materials with machine learning method**  
Çolak A. B., Aydın D., Al-Ghosini A., Dalkilic A. S.  
JOURNAL OF ENERGY STORAGE, vol.56, pp.1-11, 2022 (SCI-Expanded)
- XLVII. **An experimental study of the air-side performance of a novel louver spiral fin-and-tube heat exchanger**  
Kiatpachai P., Keawkamrop T., Asirvatham L. G., Mesgarpour M., DALKILIÇ A. S., Ahn H. S., Mahian O., Wongwises S.  
Alexandria Engineering Journal, vol.61, pp.9811-9818, 2022 (SCI-Expanded)
- XLVIII. **Experimental investigation of mixed and forced convection generated by displacement ventilation with radiant wall heating**  
Camci M., Karakoyun Y., Acikgoz Ö., Dalkilic A. S.  
International Communications in Heat and Mass Transfer, vol.139, 2022 (SCI-Expanded)
- XLIX. **Novel design of a liquid-cooled heat sink for a high-performance processor based on constructal theory: A numerical and experimental approach**  
Sakamatapan K., Mesgarpour M., Kaew-On J., Selim Dalkılıç A. S., Seon Ahn H., Mahian O., Wongwises S.  
ALEXANDRIA ENGINEERING JOURNAL, vol.61, no.12, pp.10341-10358, 2022 (SCI-Expanded)
- L. **Numerical Modeling of Interactions between Solitary Waves and Floating Breakwaters**  
Malazi M. T., DALKILIÇ A. S., Wongwises S.  
Journal of Applied Fluid Mechanics, vol.15, no.6, pp.1675-1691, 2022 (SCI-Expanded)
- LI. **Parametric optimization of heat transfer characteristics for helical coils**  
Akgul D., Mercan H., Dalkılıç A. S.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.147, no.22, pp.12577-12594, 2022 (SCI-Expanded)
- LII. **Numerical determination of condensation pressure drop of various refrigerants in smooth and micro-fin tubes via ANN method**  
Çolak A. B., CELEN A., DALKILIÇ A. S.  
KERNTECHNIK, vol.87, no.5, pp.506-519, 2022 (SCI-Expanded)
- LIII. **Dynamic simulation and exergy analysis of an Organic Rankine Cycle integrated with vapor compression refrigeration system**  
Malwe P. D., Shaikh J., Gawali B. S., Panchal H., DALKILIÇ A. S., Rahman S., Alrubaie A. J.  
Sustainable Energy Technologies and Assessments, vol.53, 2022 (SCI-Expanded)
- LIV. **An investigation of the thermal behavior of constructal theory-based pore-scale porous media by using a combination of computational fluid dynamics and machine learning**  
Mesgarpour M., Sakamatapan K., Dalkılıç A. S., Alizadeh R., Ahn H. S., Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.194, no.September, pp.1-18, 2022 (SCI-Expanded)
- LV. **Prediction of heat transfer coefficient, pressure drop, and overall cost of double-pipe heat exchangers using the artificial neural network**  
Çolak A. B., Açıkgöz Ö., Mercan H., Dalkılıç A. S., Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.39, no.November, pp.1-30, 2022 (SCI-Expanded)
- LVI. **New flow boiling frictional pressure drop multipliers for smooth and microfin tubes**  
CELEN A., DALKILIÇ A. S.  
KERNTECHNIK, vol.87, pp.420-451, 2022 (SCI-Expanded)
- LVII. **Machine learning approach to predict the heat transfer coefficients pertaining to a radiant cooling system coupled with mixed and forced convection**  
Açıkgöz Ö., Çolak A. B., Camcı M., Karakoyun Y., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.178, pp.1-14, 2022 (SCI-Expanded)
- LVIII. **Measurement of thermal conductivity and viscosity of ZnO-SiO<sub>2</sub> hybrid nanofluids**  
Yalçın G., ÖZTUNA S., DALKILIÇ A. S., Wongwises S.  
Journal of Thermal Analysis and Calorimetry, vol.147, no.15, pp.8243-8259, 2022 (SCI-Expanded)
- LIX. **Effect of the segmented fin height on the air-side performance of serrated welded spiral fin-and-tube heat**

## exchangers

- Keawkamrop T, Mesgarpour M, Dalkılıç A. S., Ahn H. S., Mahian O, Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.35, pp.1-13, 2022 (SCI-Expanded)
- LX. **An experimental study on the heat transfer characteristics over a radiant cooled wall exposed to mixed and forced convection driven by displacement ventilation**  
Camci M., Karakoyun Y., Açıköz Ö., Dalkilic A. S.  
International Communications in Heat and Mass Transfer, vol.135, 2022 (SCI-Expanded)
- LXI. **Experimental comparison of heat transfer characteristics of Enhanced Truck Radiators**  
Mercan H., Sonmez F., Dalkılıç A. S., Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.35, pp.2-13, 2022 (SCI-Expanded)
- LXII. **Prediction of battery thermal behaviour in the presence of a constructal theory-based heat pipe (CBHP): A multiphysics model and pattern-based machine learning approach**  
Boonma K., Mesgarpour M., NajmAbad J. M., Alizadeh R., Mahian O., DALKILIÇ A. S., Ahn H. S., Wongwises S.  
Journal of Energy Storage, vol.48, 2022 (SCI-Expanded)
- LXIII. **Prediction of experimental thermal performance of new designed cold plate for electric vehicles' Li-ion pouch-type battery with artificial neural network**  
Kalkan O., Colak A. B., Celen A., Bakirci K., Dalkilic A. S.  
Journal of Energy Storage, vol.48, 2022 (SCI-Expanded)
- LXIV. **Determination of heat transfer rates of heavy-duty radiators for trucks having flattened and double-U grooved pipes with louvered fins by ANN method: an experimental study**  
Mercan H., Sonmez F., Çolak A. B., Dalkilic A. S.  
European Physical Journal Plus, vol.137, no.3, pp.1-26, 2022 (SCI-Expanded)
- LXV. **CFD analyses on the thermal comfort conditions of a cooled room: a case study**  
Ozsagioglu S., Camci M., Taner T., Açıköz Ö., Dalkılıç A. S., Wongwises S.  
Journal of Thermal Analysis and Calorimetry, vol.147, no.3, pp.2615-2639, 2022 (SCI-Expanded)
- LXVI. **Air-side performance of embedded and welded spiral fin and tube heat exchangers**  
Kiatpachai P., Keawkamrop T., Mesgarpour M., Ahn H. S., DALKILIÇ A. S., Mahian O., Wongwises S.  
Case Studies in Thermal Engineering, vol.30, 2022 (SCI-Expanded)
- LXVII. **Single-phase flow heat transfer characteristics in helically coiled tube heat exchangers**  
Akgul D., Kırkar Ş. M., Onal B. S., Celen A., Dalkılıç A. S., Wongwises S.  
Kerntechnik, vol.87, no.1, pp.1-25, 2022 (SCI-Expanded)
- LXVIII. **Numerical study and optimisation of the boiling of refrigerant in a vertical corrugated tube using vapour phase tracking**  
Mesgarpour M., Alizadeh R., Mahian O., DALKILIÇ A. S., Ahn H. S., Wongwises S.  
International Journal of Heat and Mass Transfer, vol.183, 2022 (SCI-Expanded)
- LXIX. **Development of a prediction model using fully connected neural networks in the analysis of composite structures under bird strike**  
Hasilci Z., BOĞOÇLU M. E., DALKILIÇ A. S., KAYRAN A.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.36, no.2, pp.709-722, 2022 (SCI-Expanded)
- LXX. **Heat transfer and pressure drop characteristics of two phase flow in helical coils**  
Onal B. S., Kırkar Ş. M., Akgul D., Celen A., Açıköz Ö., Dalkılıç A. S., Kazi S. N., Wongwises S.  
Thermal Science and Engineering Progress, vol.27, 2022 (SCI-Expanded)
- LXXI. **A Numerical Study Aimed at Finding Optimal Artificial Neural Network Model Covering Experimentally Obtained Heat Transfer Characteristics of Hydronic Underfloor Radiant Heating**  
Çolak A. B., Karakoyun Y., Açıköz Ö., Yumurtacı Z., Dalkılıç A. S.  
Heat Transfer Research, vol.53, pp.51-71, 2022 (SCI-Expanded)
- LXXII. **Flow optimization in a microchannel with vortex generators using genetic algorithm**  
Gonul A., Okbaz A., Kayaci N., DALKILIÇ A. S.  
APPLIED THERMAL ENGINEERING, vol.201, 2022 (SCI-Expanded)
- LXXIII. **A NUMERICAL STUDY AIMED AT FINDING OPTIMAL ARTIFICIAL NEURAL NETWORK MODEL COVERING EXPERIMENTALLY OBTAINED HEAT TRANSFER CHARACTERISTICS OF HYDRONIC UNDERFLOOR RADIANT HEATING SYSTEMS RUNNING VARIOUS NANOFLUIDS**  
Colak A. B., Karakoyun Y., AÇIKGÖZ Ö., YUMURTACI Z., DALKILIÇ A. S.  
HEAT TRANSFER RESEARCH, vol.53, no.5, pp.51-71, 2022 (SCI-Expanded)
- LXXIV. **AN EXPERIMENTAL STUDY OF SIO<sub>2</sub>-ND HYBRID NANOFLUID: THERMAL CONDUCTIVITY, VISCOSITY AND**

## STABILITY WITH NEW FORECAST MODELS

Yalçın G., Öztuna S., Dalkılıç A. S., Nakkaew S., Wongwises S.

CURRENT NANOSCIENCE, vol.18, no.4, pp.520-534, 2022 (SCI-Expanded)

- LXXV. **CFD analysis of cyclone separator used for fine filtration in separation industry**  
Katare P., Krupan A., Dewasthale A., Datar A., DALKILIÇ A. S.  
Case Studies in Thermal Engineering, vol.28, 2021 (SCI-Expanded)
- LXXVI. **An experimental investigation on the effect of use of nanofluids in radiant floor heating systems**  
Karakoyun Y., Açıköz Ö., Küçükıldırım B. O., Yumurtacı Z., Dalkılıç A. S.  
Energy and Buildings, vol.252, 2021 (SCI-Expanded)
- LXXVII. **Effect of pin fin configuration on thermal performance of plate pin fin heat sinks**  
Nilpueng K., Mesgarpour M., Asirvatham L. G., DALKILIÇ A. S., Ahn H. S., Mahian O., Wongwises S.  
Case Studies in Thermal Engineering, vol.27, 2021 (SCI-Expanded)
- LXXVIII. **An experimental investigation of the air-side performance of crimped spiral fin-and-tube heat exchangers with a small tube diameter**  
Keawkamrop T., Asirvatham L. G., DALKILIÇ A. S., Ahn H. S., Mahian O., Wongwises S.  
International Journal of Heat and Mass Transfer, vol.178, 2021 (SCI-Expanded)
- LXXIX. **A comparative study on convective heat transfer in indoor applications**  
Camcı M., Karakoyun Y., Açıköz Ö., Dalkılıç A. S.  
Energy and Buildings, vol.242, 2021 (SCI-Expanded)
- LXXX. **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 (SCI-Expanded)
- LXXXI. **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, vol.46, pp.16250-16266, 2021 (SCI-Expanded)
- LXXXII. **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 (SCI-Expanded)
- LXXXIII. **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, vol.57, no.3, pp.465-479, 2021 (SCI-Expanded)
- LXXXIV. **Thermophysical Properties of Nanofluids**  
Arslan R., Ozdemir V. A., AKYOL E., DALKILIÇ A. S., Wongwises S.  
CURRENT NANOSCIENCE, vol.17, no.5, pp.694-727, 2021 (SCI-Expanded)
- LXXXV. **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, vol.143, no.2, pp.859-878, 2021 (SCI-Expanded)
- LXXXVI. **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 (SCI-Expanded)
- LXXXVII. **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 (SCI-Expanded)
- LXXXVIII. **Effects of Sonication Time on the Stability and Viscosity of Functionalized MWCNT-Based Nanolubricants**  
Dalkılıç A. S., Küçükıldırım B. O., Akdoğan Eker A., Yıldız F., Akpınar A., Jumholkul C., Wongwises S.  
Current Nanoscience, vol.16, no.4, pp.639-654, 2020 (SCI-Expanded)
- LXXXIX. **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 (SCI-Expanded)
- XC. **Experimental and numerical studies on heat transfer enhancement for air conditioner condensers using a wavy fin with a rectangular winglet**

Chimres N., Chittiphalsri T., Asirvatham L. G., DALKILIÇ A. S., Mahian O., Wongwises S.

Journal of Mechanical Science and Technology, vol.34, pp.4307-4322, 2020 (SCI-Expanded)

- XCI. **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 (SCI-Expanded)
- XCII. **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 (SCI-Expanded)
- XCIII. **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**  
Jumpholkul 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 (SCI-Expanded)
- XCIV. **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**  
Karakoyun Y., Açığöz Ö., Yumurtacı Z., Dalkılıç A. S.  
APPLIED THERMAL ENGINEERING, vol.164, 2020 (SCI-Expanded)
- XCV. **Correction to: Single phase flow of nanofluid including graphite and water in a microchannel (Heat and Mass Transfer, (2020), 56, 1, (1-24), 10.1007/s00231-019-02663-5)**  
Yıldız O., Açığöz Ö., Yıldız G., Bayrak M., Dalkılıç A. S., Wongwises S.  
HEAT AND MASS TRANSFER/WAERME- UND STOFFUEBERTRAGUNG, vol.56, pp.1-24, 2020 (SCI-Expanded)
- XCVI. **Experimental study on the specific heat capacity measurement of water-based Al<sub>2</sub>O<sub>3</sub>-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 (SCI-Expanded)
- XCVII. **Single phase flow of nanofluid including graphite and water in a microchannel**  
Yıldız O., Açığöz 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 (SCI-Expanded)
- XCVIII. **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 (SCI-Expanded)
- XCIX. **Application of the heat pipe to enhance the performance of the vapor compression refrigeration system**  
Nakkaew S., Chittiphalsri 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 (SCI-Expanded)
- C. **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 (SCI-Expanded)
- CI. **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**  
Açığöz Ö., Karakoyun Y., Yumurtacı Z., Dukhan N., Dalkılıç A. S.  
ENERGY AND BUILDINGS, vol.183, pp.515-526, 2019 (SCI-Expanded)
- CII. **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 (SCI-Expanded)
- CIII. **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 (SCI-Expanded)
- CIV. **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 (SCI-Expanded)
- CV. **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 (SCI-Expanded)
- CVI. **Absorption refrigeration system using engine exhaust gas as an energy source**  
Kaewpradub S., Sanguanduean P., Katesuwan W., Chimres N., Punyasukhananda P., Asirvatham L. G., Mahian O., Dalkılıç A. S.,

- Wongwises S.  
CASE STUDIES IN THERMAL ENGINEERING, vol.12, pp.797-804, 2018 (SCI-Expanded)
- CVII. **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 (SCI-Expanded)
- CVIII. **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 (SCI-Expanded)
- CIX. **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 (SCI-Expanded)
- CX. **Effect of surface roughness on the condensation of R-134a in vertical chevron gasketed plate heat exchangers**  
Soontarapiromsook J., Mahian O., Dalkilic A. S., Wongwises S.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.91, pp.54-63, 2018 (SCI-Expanded)
- CXI. **An experimental investigation devoted to determine heat transfer characteristics in a radiant ceiling heating system**  
Koca A., Açıköz Ö., Çebi A., Çetin G., Dalkılıç A. S., Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.54, pp.363-375, 2018 (SCI-Expanded)
- CXII. **Experimental Study on the Stability and Viscosity for the Blends of Functionalized MWCNTs with Refrigeration Compressor Oils**  
Dalkilic 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 (SCI-Expanded)
- CXIII. **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 (SCI-Expanded)
- CXIV. **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 (SCI-Expanded)
- CXV. **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 (SCI-Expanded)
- CXVI. **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 (SCI-Expanded)
- CXVII. **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 (SCI-Expanded)
- CXVIII. **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 (SCI-Expanded)
- CXIX. **Experimental investigation of frost issue on various evaporators having different fin types**  
Olçay A. B., Avci P., Bayrak E., Dalkilic A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.86, pp.190-198, 2017 (SCI-Expanded)
- CXX. **A novel ANN-based approach to estimate heat transfer coefficients in radiant wall heating systems**  
Açıköz Ö., Cebi A., Dalkılıç A. S., Koca A., Cetin G., Gemici Z., Wongwises S.  
ENERGY AND BUILDINGS, vol.144, pp.401-415, 2017 (SCI-Expanded)
- CXXI. **Prediction of friction factor of pure water flowing inside vertical smooth and microfin tubes by using artificial neural networks**  
Çebi A., Akdoğan E., Celen A., Dalkılıç A. S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.53, no.2, pp.673-685, 2017 (SCI-Expanded)
- CXXII. **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 (SCI-Expanded)

- CXXXIII. **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 (SCI-Expanded)
- CXXIV. **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 (SCI-Expanded)
- CXXV. **Experimental investigation on the viscosity of Water-CNT and Antifreeze-CNT nanofluids**  
Dalkılıç A. S., Küçükıldırım B. O., Eker A., Cebi A., Tapan S., Jumholkul C., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.80, pp.47-59, 2017 (SCI-Expanded)
- CXXVI. **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 (SCI-Expanded)
- CXXVII. **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 (SCI-Expanded)
- CXXVIII. **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 (SCI-Expanded)
- CXXIX. **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 (SCI-Expanded)
- CXXX. **Prediction of graphite nanofluids' dynamic viscosity by means of artificial neural networks**  
Dalkılıç A. S., Cebi A., Celen A., Yıldız O., Açıkgöz Ö., Jumholkul C., Bayrak M., Surana K., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.73, pp.33-42, 2016 (SCI-Expanded)
- CXXXI. **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 (SCI-Expanded)
- CXXXII. **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 (SCI-Expanded)
- CXXXIII. **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.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.71, pp.245-253, 2016 (SCI-Expanded)
- CXXXIV. **Effects of hydrogen and methane addition on combustion characteristics, emissions, and performance of a CI engine**  
Karagoz Y., Guler I., Sandalci T., Yüksek L., Dalkılıç A. S., Wongwises S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.2, pp.1313-1325, 2016 (SCI-Expanded)
- CXXXV. **Effect of hydrogen enrichment on combustion characteristics, emissions and performance of a diesel engine**  
Karagoz Y., Güler I., Sandalci T., Yüksek L., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.1, pp.656-665, 2016 (SCI-Expanded)
- CXXXVI. **Effect of Refrigerant Type and Insulation Thickness on Refrigeration Systems of Land and Sea Vehicles**  
DALKILIÇ A. S., Celen A., Cebi A., WONGWISES S.  
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.62, no.4, pp.252-259, 2016 (SCI-Expanded)
- CXXXVII. **A Review of Recent Empirical Correlations for the Calculation of Determination of R134a's Convective Heat Transfer Coefficient in Vertical Condensers**  
DALKILIÇ A. S., AKTAŞ M. S., AÇIKGÖZ Ö., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.69, pp.41-50, 2015 (SCI-Expanded)
- CXXXVIII. **Effects of hydrogen and oxygen enrichment on performance and emissions of an SI engine under idle operating condition**  
Karagoz Y., SANDALCI T., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.28, pp.8607-8619, 2015 (SCI-Expanded)

- CXXXIX. **Effect of hydrogen and oxygen addition as a mixture on emissions and performance characteristics of a gasoline engine**  
 KARAGÖZ Y., YUCA N., SANDALCI T., DALKILIÇ A. S.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.28, pp.8750-8760, 2015 (SCI-Expanded)
- CXL. **Engine performance and emission effects of diesel burns enriched by hydrogen on different engine loads**  
 Karagoz Y., Sandalcı T., Yüksek L., Dalkılıç A. S.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.20, pp.6702-6713, 2015 (SCI-Expanded)
- CXLI. **An experimental investigation on the performance characteristics of a hydroxygen enriched gasoline engine with water injection**  
 Karagoz Y., Yüksek L., Sandalcı T., Dalkılıç A. S.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.1, pp.692-702, 2015 (SCI-Expanded)
- CXLII. **A Theoretical Comparative Study on Nanorefrigerant Performance in a Single-Stage Vapor-Compression Refrigeration Cycle**  
 Aktas M., Aktaş M., Dalkılıç A. S., Celen A., Çebi A., Mahian O., Wongwises S.  
 ADVANCES IN MECHANICAL ENGINEERING, vol.7, 2015 (SCI-Expanded)
- CXLIII. **INVESTIGATION ON THE RELATION BETWEEN EXERGY LOSS AND NTU**  
 KINCAY O., Celtek M. S., Acikgoz O., Dalkilic A. S., Wongwises S.  
 ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, no.2, pp.153-164, 2015 (SCI-Expanded)
- CXLIV. **Effects of the gap size on the flow pattern maps in a mini-gap annular channel**  
 Pipathattakul M., Mahian O., DALKILIÇ A. S., Wongwises S.  
 EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.57, pp.420-424, 2014 (SCI-Expanded)
- CXLV. **A review of nanorefrigerants: Flow characteristics and applications**  
 Celen A., Cebi A., Aktas M., Mahian O., DALKILIÇ A. S., Wongwises S.  
 INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.44, pp.125-140, 2014 (SCI-Expanded)
- CXLVI. **Measurement of the void fraction of R-134a flowing through a horizontal tube**  
 Srisomba R., Mahian O., DALKILIÇ A. S., Wongwises S.  
 INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.56, pp.8-14, 2014 (SCI-Expanded)
- CXLVII. **Prediction of heat transfer coefficients and friction factors for evaporation of R-134a flowing inside corrugated tubes**  
 Laohalertdecha S., Aroonrat K., DALKILIÇ A. S., Mahian O., Kaewnai S., Wongwises S.  
 HEAT AND MASS TRANSFER, vol.50, no.4, pp.469-482, 2014 (SCI-Expanded)
- CXLVIII. **Numerical investigation for the calculation of TiO<sub>2</sub>-water nanofluids' pressure drop in plain and enhanced pipes**  
 Celen A., Kayaci N., Cebi A., Demir H., Dalkılıç A. S., Wongwises S.  
 INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.53, pp.98-108, 2014 (SCI-Expanded)
- CXLIX. **Classification of in-tube boiling R134a data belonging to the smooth and corrugated tubes**  
 Balçilar M., DALKILIÇ A. S., Sonmez A. C., WONGWISES S.  
 INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.53, pp.185-194, 2014 (SCI-Expanded)
- CL. **Selection of the most suitable refrigerant for a shell and tube condenser**  
 DALKILIÇ A. S., Mahian O., Wongwises S.  
 HEAT AND MASS TRANSFER, vol.50, no.2, pp.183-197, 2014 (SCI-Expanded)
- CLI. **Neural Network Based Analyses for the Determination of Evaporation Heat Transfer Characteristics During Downward Flow of R134a Inside a Vertical Smooth and Corrugated Tube**  
 Balçilar M., DALKILIÇ A. S., AROONRAT K., WONGWISES S.  
 ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, no.2, pp.1271-1290, 2014 (SCI-Expanded)
- CLII. **EXPERIMENTAL INVESTIGATION OF A FOOD PLANT USING WASTE HEAT RECOVERY SYSTEMS TO DETERMINE THE POTENTIAL FOR FUEL SAVINGS**  
 ÇUBUK M. H., EMANET Ö., DALKILIÇ A. S., WONGWISES S.  
 ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.34, no.2, pp.1-8, 2014 (SCI-Expanded)
- CLIII. **Measurement and Correlation of the Viscosity of Water-Based Al<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> Nanofluids in High Temperatures and Comparisons with Literature Reports**  
 Yiamsawas T., DALKILIÇ A. S., Mahian O., Wongwises S.

- JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.34, no.12, pp.1697-1703, 2013 (SCI-Expanded)
- CLIV. **A generalized numerical correlation study for the determination of pressure drop during condensation and boiling of R134a inside smooth and corrugated tubes**  
Balcilar M., AROONRAT K., DALKILIÇ A. S., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.49, pp.78-85, 2013 (SCI-Expanded)
- CLV. **Experimental studies on the viscosity of TiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> nanoparticles suspended in a mixture of ethylene glycol and water for high temperature applications**  
Yiamsawas T., Mahian O., DALKILIÇ A. S., Kaewnai S., Wongwises S.  
APPLIED ENERGY, vol.111, pp.40-45, 2013 (SCI-Expanded)
- CLVI. **A numerical correlation development study for the determination of Nusselt numbers during boiling and condensation of R134a inside smooth and corrugated tubes**  
Balcilar M., AROONRAT K., DALKILIÇ A. S., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.48, pp.141-148, 2013 (SCI-Expanded)
- CLVII. **Performance characteristics of a microchannel heat sink using TiO<sub>2</sub>/water nanofluid and different thermophysical models**  
Nitiapiruk P., Mahian O., DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.47, pp.98-104, 2013 (SCI-Expanded)
- CLVIII. **Condensation heat transfer characteristics of R-134a flowing inside the multiport minichannels**  
Sakamatapan K., Kaew-On J., DALKILIÇ A. S., Mahian O., Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.64, pp.976-985, 2013 (SCI-Expanded)
- CLIX. **Experimental analysis of the single phase pressure drop characteristics of smooth and microfin tubes**  
Celen A., DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.46, pp.58-66, 2013 (SCI-Expanded)
- CLX. **Investigation of the effects of geometrical parameters on heat transfer from buried finned pipes**  
DEMİR H., KOYUN A., ATAYILMAZ Ş. Ö., AĞRA Ö., DALKILIÇ A. S.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.27, no.8, pp.2497-2506, 2013 (SCI-Expanded)
- CLXI. **Fundamental Basis and Application of Cold-Room Project Design: A Turkish Case Study**  
Dalkılıç A. S., Kürekci N. A., Kincay O., Wongwises S.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.38, no.5, pp.1115-1130, 2013 (SCI-Expanded)
- CLXII. **Pool-boiling heat transfer characteristics of Al<sub>2</sub>O<sub>3</sub>-water nanofluids on a horizontal cylindrical heating surface**  
Duangthongsuk W., Yiamsawas T., Dalkılıç A. S., Wongwises S.  
Current Nanoscience, vol.9, no.1, pp.56-60, 2013 (SCI-Expanded)
- CLXIII. **Heat transfer and single-phase flow in internally grooved tubes**  
Aroonrat K., Jumpholkul C., Leelaprachakul R., DALKILIÇ A. S., Mahian O., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.42, pp.62-68, 2013 (SCI-Expanded)
- CLXIV. **Determination of the Single-Phase Forced Convection Heat Transfer Characteristics of TiO<sub>2</sub> Nanofluids Flowing in Smooth and Micro-Fin Tubes by Means of CFD and ANN Analyses**  
Kayaci N., Balcilar M., Tabatabaei M., Celen A., Yıldız O., Dalkılıç A. S., Wongwises S.  
CURRENT NANOSCIENCE, vol.9, pp.61-80, 2013 (SCI-Expanded)
- CLXV. **An Experimental Investigation of the Reynolds Analogy and its Modifications Applied to Annular Condensation Laminar Flow of R134a in a Vertical Tube**  
DALKILIÇ A. S., Kundu B., Wongwises S.  
Arabian Journal for Science and Engineering, vol.38, no.6, pp.1493-1507, 2013 (SCI-Expanded)
- CLXVI. **Experimental Study on Evaporative Heat Transfer and Pressure Drop of R-134a Flowing Downward Through Vertical Corrugated Tubes with Different Corrugation Pitches**  
Aroonrat K., DALKILIÇ A. S., Wongwises S.  
EXPERIMENTAL HEAT TRANSFER, vol.26, no.1, pp.41-63, 2013 (SCI-Expanded)
- CLXVII. **FRICITION FACTOR CHARACTERISTICS FOR UPWARD SINGLE-PHASE FLOWS INSIDE SMOOTH AND MICROFIN TUBES OF A DOUBLE-PIPE HEAT EXCHANGER FOR HEATING/COOLING CONDITIONS**  
Çebi A., Celen A., Dalkılıç A. S., Wongwises S.  
JOURNAL OF ENHANCED HEAT TRANSFER, vol.20, pp.413-425, 2013 (SCI-Expanded)
- CLXVIII. **Two-Phase Flow and Heat Transfer Enhancement**  
Wongwises S., Ghajar A. J., Chau K., Garcia Valladares O., Kundu B., DALKILIÇ A. S., Lazarus G. A.  
ADVANCES IN MECHANICAL ENGINEERING, 2013 (SCI-Expanded)



- CLXIX. **Forced Convective Heat Transfer of Nanofluids - A Review of the Recent Literature**  
DALKILIÇ A. S., Kayaci N., Celen A., Tabatabaei M., Yildiz O., Daungthongsuk W., Wongwises S.  
CURRENT NANOSCIENCE, vol.8, no.6, pp.949-969, 2012 (SCI-Expanded)
- CLXX. **Measurement of Specific Heat of Nanofluids**  
Yiamsawasd T., Dalkilic A. S., Wongwises S.  
CURRENT NANOSCIENCE, vol.8, no.6, pp.939-944, 2012 (SCI-Expanded)
- CLXXI. **Heat transfer enhancement during downward laminar flow condensation of R134a in vertical smooth and microfin tubes**  
DALKILIÇ A. S., Teke I., WONGWISES S.  
Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.32, no.1, pp.19-31, 2012 (SCI-Expanded)
- CLXXII. **Theoretical analysis on the prediction of performance coefficient of two-stage cascade refrigeration system using various alternative refrigerants**  
DALKILIÇ A. S.  
Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.32, no.1, pp.67-79, 2012 (SCI-Expanded)
- CLXXIII. **Measurement of the thermal conductivity of titania and alumina nanofluids**  
Yiamsawasd T., DALKILIÇ A. S., Wongwises S.  
Thermochimica Acta, vol.545, pp.48-56, 2012 (SCI-Expanded)
- CLXXIV. **A correlation development for predicting the pressure drop of various refrigerants during condensation and evaporation in horizontal smooth and micro-fin tubes**  
Balçilar M., DALKILIÇ A. S., AĞRA Ö., ATAYILMAZ Ş. Ö., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.39, no.7, pp.937-944, 2012 (SCI-Expanded)
- CLXXV. **Nucleate pool boiling heat transfer correlation for TiO<sub>2</sub>-water nanofluids**  
Suriyawong A., DALKILIÇ A. S., Wongwises S.  
Journal of ASTM International, vol.9, no.5, 2012 (SCI-Expanded)
- CLXXVI. **Theoretical analysis on the prediction of coefficient of performance (COP) of vapour compression refrigeration systems using various alternative refrigerants**  
DALKILIÇ A. S.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.1, pp.67-79, 2012 (SCI-Expanded)
- CLXXVII. **Investigation of pool boiling of nanofluids using artificial neural networks and correlation development techniques**  
Balçilar M., DALKILIÇ A. S., SURIYAWONG A., YIAMSAWAS T., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.39, no.3, pp.424-431, 2012 (SCI-Expanded)
- CLXXVIII. **Effect of void fraction and friction factor models on the prediction of pressure drop of R134a during downward condensation in a vertical tube**  
Dalkılıç A. S., Kürekci N. A., Wongwises S.  
HEAT AND MASS TRANSFER, vol.48, no.1, pp.123-139, 2012 (SCI-Expanded)
- CLXXIX. **Convective heat transfer of Al<sub>2</sub>O<sub>3</sub>-water nanofluids in a microchannel heat sink**  
Daungthongsuk W., DALKILIÇ A. S., Wongwises S.  
Current Nanoscience, vol.8, no.3, pp.317-322, 2012 (SCI-Expanded)
- CLXXX. **Numerical investigation of heat transfer and pressure drop in enhanced tubes**  
AĞRA Ö., Demir H., ATAYILMAZ Ş. Ö., Kantaş F., DALKILIÇ A. S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.38, no.10, pp.1384-1391, 2011 (SCI-Expanded)
- CLXXXI. **Correlations for evaporation heat transfer coefficient and two-phase friction factor for R-134a flowing through horizontal corrugated tubes**  
Laohalertdecha S., DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.38, no.10, pp.1406-1413, 2011 (SCI-Expanded)
- CLXXXII. **Investigation of empirical correlations on the determination of condensation heat transfer characteristics during downward annular flow of R134a inside a vertical smooth tube using artificial intelligence algorithms**  
Balçilar M., DALKILIC A. S., BOLAT B., WONGWISES S.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.25, no.10, pp.2683-2701, 2011 (SCI-Expanded)
- CLXXXIII. **Condensation pressure drop characteristics of various refrigerants in a horizontal smooth tube**  
Dalkilic A. S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.38, no.4, pp.504-512, 2011 (SCI-Expanded)
- CLXXXIV. **Numerical investigation on the single phase forced convection heat transfer characteristics of TiO<sub>2</sub> nanofluids**

**in a double-tube counter flow heat exchanger**

Demir H., Dalkılıç A. S., Kürekci N. A., Duangthongsuk W., Wongwises S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.38, no.2, pp.218-228, 2011 (SCI-Expanded)

- CLXXXV. **Experimental analysis for the determination of the convective heat transfer coefficient by measuring pressure drop directly during annular condensation flow of R134a in a vertical smooth tube**  
DALKILIÇ A. S., Teke I., Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.54, no.4, pp.1008-1014, 2011 (SCI-Expanded)
- CLXXXVI. **Two-Phase Heat Transfer Coefficients of R134a Condensation in Vertical Downward Flow at High Mass Flux**  
DALKILIÇ A. S., Wongwises S.  
HEAT TRANSFER - THEORETICAL ANALYSIS, EXPERIMENTAL INVESTIGATIONS AND INDUSTRIAL SYSTEMS, pp.15-32, 2011 (SCI-Expanded)
- CLXXXVII. **Experimental Study on the Modeling of Condensation Heat Transfer Coefficients in High Mass Flux Region of Refrigerant HFC-134a Inside the Vertical Smooth Tube in Annular Flow Regime**  
DALKILIÇ A. S., Wongwises S.  
HEAT TRANSFER ENGINEERING, vol.32, no.1, pp.33-44, 2011 (SCI-Expanded)
- CLXXXVIII. **Artificial neural network techniques for the determination of condensation heat transfer characteristics during downward annular flow of R134a inside a vertical smooth tube**  
Balçilar M., DALKILIÇ A. S., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.38, no.1, pp.75-84, 2011 (SCI-Expanded)
- CLXXXIX. **New experimental approach on the determination of condensation heat transfer coefficient using frictional pressure drop and void fraction models in a vertical tube**  
DALKILIÇ A. S., Wongwises S.  
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.12, pp.2535-2547, 2010 (SCI-Expanded)
- CXC. **A performance comparison of vapour-compression refrigeration system using various alternative refrigerants**  
DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.37, no.9, pp.1340-1349, 2010 (SCI-Expanded)
- CXCI. **An investigation of a model of the flow pattern transition mechanism in relation to the identification of annular flow of R134a in a vertical tube using various void fraction models and flow regime maps**  
DALKILIÇ A. S., Wongwises S.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, no.6, pp.692-705, 2010 (SCI-Expanded)
- CXCII. **Validation of void fraction models and correlations using a flow pattern transition mechanism model in relation to the identification of annular vertical downflow in-tube condensation of R134a**  
DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.37, no.7, pp.827-834, 2010 (SCI-Expanded)
- CXCIII. **Comparison of frictional pressure drop models during annular flow condensation of R600a in a horizontal tube at low mass flux and of R134a in a vertical tube at high mass flux**  
DALKILIÇ A. S., AĞRA Ö., Teke I., Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.53, pp.2052-2064, 2010 (SCI-Expanded)
- CXCIV. **Experimental investigation of heat transfer coefficient of R134a during condensation in vertical downward flow at high mass flux in a smooth tube**  
DALKILIÇ A. S., Laohalertdecha S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.36, no.10, pp.1036-1043, 2009 (SCI-Expanded)
- CXCV. **Intensive literature review of condensation inside smooth and enhanced tubes**  
DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.52, pp.3409-3426, 2009 (SCI-Expanded)
- CXCVI. **Effect of void fraction models on the film thickness of R134a during downward condensation in a vertical smooth tube**  
DALKILIÇ A. S., Laohalertdecha S., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.36, no.2, pp.172-179, 2009 (SCI-Expanded)
- CXCVII. **Experimental investigation of convective heat transfer coefficient during downward laminar flow condensation of R134a in a vertical smooth tube**  
DALKILIÇ A. S., YILDIZ S., WONGWISES S.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.52, pp.142-150, 2009 (SCI-Expanded)
- CXCVIII. **Two-phase friction factor in vertical downward flow in high mass flux region of refrigerant HFC-134a during**

## **condensation**

DALKILIÇ A. S., Laohalertdecha S., Wongwises S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.35, no.9, pp.1147-1152, 2008 (SCI-Expanded)

### **CXCIX. Effect of void fraction models on the two-phase friction factor of R134a during condensation in vertical downward flow in a smooth tube**

DALKILIÇ A. S., Laohalertdecha S., Wongwises S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.35, no.8, pp.921-927, 2008 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **A case study on the modeling and simulation of UAVs**  
KOÇ O. K., SERTKAYA A., GÖNÜL A., TANER T., DALKILIÇ A. S.  
Journal of Thermal Engineering, vol.10, no.1, pp.164-174, 2024 (ESCI)
- II. **Determination of optimum insulation thickness in submarines**  
Durmaz S., ÇOLAK A. B., MERCAN H., DALKILIÇ A. S.  
Journal of Thermal Engineering, vol.9, 2023 (ESCI)
- III. **COMPREHENSIVE REVIEW ON THE FLOW CHARACTERISTICS OF TWO-PHASE FLOWS IN INCLINED TUBES**  
Karademir H., Ozcelik G., Açıkğöz Ö., Dalkılıç A. S., İnce İ. T., Meyer J., Wongwises S.  
JOURNAL OF THERMAL ENGINEERING, vol.7, no.3, pp.483-549, 2021 (ESCI)
- IV. **An experimental investigation on radiant floor heating systems at various operating conditions**  
Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S., YUMURTACI Z.  
Journal of Thermal Engineering, vol.6, no.5, pp.751-771, 2020 (ESCI)
- V. **Professor somchai wongwises on his 60th birthday**  
Awad M. M., Mondal P. K., Mahian O., Ahn H. S., DALKILIÇ A. S., Pop I., Mewes D., Bejan A., ŞAHİN B.  
Journal of Thermal Engineering, vol.6, no.4, pp.438-439, 2020 (ESCI)
- VI. **DETERMINATION OF SOME DOMESTIC RADIATORS' THERMAL CAPACITY NUMERICALLY**  
Dalkılıç A. S., Açıkğöz Ö., Ekici E., Wongwises S.  
JOURNAL OF THERMAL ENGINEERING, vol.5, pp.251-270, 2019 (ESCI)
- VII. **NUMERICAL ANALYSES ON THE PREDICTION OF NUSSELT NUMBERS FOR UPWARD AND DOWNWARD FLOWS OF WATER IN A SMOOTH PIPE: EFFECTS OF BUOYANCY AND PROPERTY VARIATIONS**  
DALKILIÇ A. S., Cebi A., Celen A.  
JOURNAL OF THERMAL ENGINEERING, vol.5, no.3, pp.166-180, 2019 (ESCI)
- VIII. **A FEASIBILITY STUDY OF SOLAR ENERGY-TECHNO ECONOMIC ANALYSIS FROM AKSARAY CITY, TURKEY**  
Taner T., DALKILIÇ A. S.  
JOURNAL OF THERMAL ENGINEERING, vol.5, no.1, pp.25-30, 2019 (ESCI)
- IX. **Experimental Investigation on the Performance of a Parallel Plate-Based Active Magnetic Regenerator**  
Keawkamrop T., DALKILIÇ A. S., Asirvatham L. G., Amani J., Mahian O., Wongwises S.  
INTERNATIONAL JOURNAL OF AIR-CONDITIONING AND REFRIGERATION, vol.26, no.2, 2018 (ESCI)
- X. **A REVIEW OF FLOW BOILING IN MINI AND MICROCHANNEL FOR ENHANCED GEOMETRIES**  
Cebi A., CELEN A., Donmez A. H., KARAKOYUN Y., CELEN P., Celtek M. S., DALKILIÇ A. S., Taner T., Wongwises S.  
JOURNAL OF THERMAL ENGINEERING, vol.4, no.3, pp.2037-2074, 2018 (ESCI)
- XI. **A NONLINEAR CONSTITUTIVE THEORY FOR HEAT CONDUCTION IN LAGRANGIAN DESCRIPTION BASED ON INTEGRITY**  
Surana K. S., Joy A. D., Kedari S. R., Nunez D., Reddy J. N., DALKILIÇ A. S.  
JOURNAL OF THERMAL ENGINEERING, vol.3, no.6, pp.1615-1631, 2017 (ESCI)
- XII. **Measurement of Similarity in Academic Contexts**  
Mahian O., Treutwein M., Estelle P., Wongwises S., Wen D., Lorenzini G., DALKILIÇ A. S., Yan W., Sahin A. Z.  
PUBLICATIONS, vol.5, no.3, 2017 (ESCI)
- XIII. **PARAMETRIC STUDY OF ENERGY, EXERGY AND THERMOECONOMIC ANALYSES ON VAPOR-COMPRESSION SYSTEM CASCADED WITH LIBR/WATER AND NH3/WATER ABSORPTION CASCADE REFRIGERATION CYCLE**  
Dalkılıç A. S., Celen A., Çebi A., Taner T., Wongwises S.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.18, pp.78-96, 2017 (Peer-Reviewed Journal)
- XIV. **CFD analysis of smoke and temperature control system of an indoor parking lot with jet fans**

- Senveli A., Dizman T., Celen A., Bilge D., DALKILIÇ A. S., Wongwises S.  
Journal of Thermal Engineering, vol.1, no.2, pp.116-130, 2015 (ESCI)
- XV. **A critical review on condensation heat transfer in microchannels and minichannels**  
Awad M., DALKILIÇ A. S., Wongwises S.  
Journal of Nanotechnology in Engineering and Medicine, vol.5, no.1, 2014 (Scopus)
- XVI. **A REVIEW ON THE HEAT-TRANSFER PERFORMANCE AND PRESSURE-DROP CHARACTERISTICS OF VARIOUS ENHANCED TUBES**  
Laohalertdecha S., DALKILIÇ A. S., Wongwises S.  
INTERNATIONAL JOURNAL OF AIR-CONDITIONING AND REFRIGERATION, vol.20, no.4, 2012 (ESCI)
- XVII. **Nucleate pool boiling heat transfer correlation for TiO<sub>2</sub>-water nanofluids**  
Suriyawong A., DALKILIÇ A. S., Wongwises S.  
ASTM Special Technical Publication, vol.1567, pp.171-188, 2012 (Scopus)
- XVIII. **Boru içinde yogusmada isi transferi katsayisinin tespiti**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, no.113, pp.50-60, 2009 (Peer-Reviewed Journal)
- XIX. **Kapali yuzme havuzlarında iklimlendirme**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, vol.104, pp.64-66, 2008 (Peer-Reviewed Journal)
- XX. **Doner tip isi degistiricileri ve ornek bir uygulama**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, vol.107, pp.5-12, 2008 (Peer-Reviewed Journal)
- XXI. **OTOMOBİL RADYATÖRLERİNDE BASINÇ KAYIPLARININ YAPAY SİNİR AĞLARI YARDIMIYLA MODELLENMESİ**  
Demir H., Kürekci N. A., Dalkılıç A. S.  
Tesisat Mühendisligi, no.108, pp.65-69, 2008 (Peer-Reviewed Journal)
- XXII. **Bir Fırına Ait Bacadan Isı Değiştirici Yardımıyla Atık Isı Geri Kazanımı**  
Dalkılıç A. S., Kürekci N. A., Demir H.  
Tesisat Mühendisligi, vol.108, pp.5-11, 2008 (Peer-Reviewed Journal)
- XXIII. **İc yuzeyi mikro kanatli borularda yoguşma**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, vol.106, pp.38-46, 2008 (Peer-Reviewed Journal)
- XXIV. **Bir firin bacasından isi degistirici yardimiyla atik isi geri kazanimi**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, vol.108, no.5, 2008 (Peer-Reviewed Journal)
- XXV. **Döner Tip Isı Değiştiricileri ve Örnek Bir Uygulama. Tesisat Mühendisligi**  
Kürekci N. A., Demir H., Dalkılıç A. S.  
Tesisat Mühendisligi, vol.107, pp.5-12, 2008 (Peer-Reviewed Journal)
- XXVI. **Bir dokme lpg tesisine ait ornek uygulama**  
DALKILIÇ A. S.  
T.M.M.O. Tesisat Mühendisligi Dergisi, vol.107, pp.32-36, 2008 (Peer-Reviewed Journal)
- XXVII. **Bir Endüstriyel Tesis Bacasındaki Atık Gaz Akışının Sayısal İncelenmesi**  
KOYUN A., Demir H., Dalkılıç S.  
Tesisat Mühendisligi, 2006 (Non Peer-Reviewed Journal)
- XXVIII. **Kapali yuzme havuzlarında buharlasma miktarinin hesaplanmasi**  
DALKILIÇ A. S.  
Tesisat Teknigi Dergisi, vol.111, pp.186-188, 2005 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Application of artificial intelligence techniques for heat exchanger predictions in food industry**  
Öztuna Taner Ö., Mercan H., Çolak A. B., Radulovic J., Taner T., Dalkılıç A. S.  
in: ADVANCED MATERIALS-BASED THERMALLY ENHANCED PHASE CHANGE MATERIALS Fundamentals and Applications, Hafiz Muhammad Ali, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.269-319, 2024
- II. **A Critical Review on Condensation Pressure Drop in Microchannels and Minichannels**  
Awad M. M., Dalkılıç A. S., Wongwises S.

- in: Heat Transfer Studies and Applications, Salim Newaz Kazi, Editor, INTECH Open Access Publisher, Rijeka, pp.53-102, 2015
- III. **Chapter 8. Pool Boiling Heat Transfer of Nanofluids**  
Bajestan E. E., Mahian O., Dalkılıç A. S., Wongwises S.  
in: Nanofluids: Synthesis, Properties and Applications, Sohel Murshed S.M., Castro C.A. Nieto de, Editor, Nova Science Publishers, New-York, pp.193-214, 2014
- IV. **Condensation heat transfer in smooth and enhanced geometries - A review of 2010 literature**  
Dalkılıç A. S., Wongwises S.  
in: Refrigeration Systems, Design Technologies and Developments, D. Alda, Davide Ciarlo D., Editor, Nova Publishers On The Internet, New-York, pp.1-10, 2013
- V. **Two-phase heat transfer coefficients of R134a condensation in vertical downward flow at high mass flux**  
Dalkılıç A. S., Wongwises S.  
in: Heat Transfer/Theoretical Analysis, Experimental Investigations and Industrial Systems, Aziz Belmiloudi, Editor, Intech Science Publishers, Rijeka, pp.15-32, 2011

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

- I. **Numerical Prediction of Experimentally Obtained Thermal Performance and Capacity of EC Fan Coil with Artificial Neural Networks During Cooling Process**  
Uğuz B., Gemici Z., Tonya D., Çolak A. B., Dalkılıç A. S.  
ASES VIII. INTERNATIONAL HEALTH, ENGINEERING AND SCIENCES CONFERENCE, İzmir, Turkey, 6 - 07 April 2024, pp.43-44
- II. **SHORT LITERATURE REVIEW ON THE BOILING HEAT TRANSFER CHARACTERISTICS OF INCLINED DOUBLE PIPE HEAT EXCHANGERS**  
Server A., Altunal U., Mercan H., Dalkılıç A. S., Wongwises S.  
ICAME 2021, İstanbul, Turkey, 20 - 22 October 2021, pp.1547
- III. **SHORT LITERATURE SUMMARY ON THE SINGLE-PHASE FLOW HEAT TRANSFER CHARACTERISTICS OF TRIPLE PIPE HEAT EXCHANGERS**  
Demirel P., Akgul D., Kesen A., Mercan H., Dalkılıç A. S., Wongwises S.  
ICAME 2021, İstanbul, Turkey, 20 - 22 October 2021, pp.1546
- IV. **A BRIEF LITERATURE REVIEW ON THE CONDENSATION CHARACTERISTICS OF INCLINED DOUBLE PIPE HEAT EXCHANGERS HAVING SMOOTH AND CORRUGATED TUBES**  
Altunal U., Server A., Mercan H., Dalkılıç A. S., Wongwises S.  
ICAME 2021, İstanbul, Turkey, 20 - 22 October 2021, pp.1550
- V. **A REVIEW OF NANOTECHNOLOGICAL ADVANCES ABOUT ANODE MATERIALS TO IMPROVE THE PERFORMANCE OF ELECTRIC VEHICLE LITHIUM-ION BATTERIES**  
Kılıç S., Taner T., Dalkılıç A. S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.1458-1466
- VI. **TECHNICALITY OF THE EXPERIMENTAL SETUP FOR THE INVESTIGATION OF RADIANT HEATING/COOLING SYSTEMS**  
Camcı M., Karakoyun Y., Açıkgöz Ö., Dalkılıç A. S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.1422-1431
- VII. **INVESTIGATION OF THE EFFECT OF FLOW CHANNEL DESIGN ON PEM FUEL CELL VOLTAGE**  
Eroğlu L., Taner T., Dalkılıç A. S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021 - 22 January 2022, pp.1555
- VIII. **ENERGY BALANCE AND EXERGY EFFICIENCY WITH THE SAMPLE CFD PROGRAM OF SPORTS TECHNOLOGIES**  
Öztürk M., Taner T., Dalkılıç A. S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.1256-1265
- IX. **INVESTIGATION OF STABILITY SYNTHESIZED TITANIUM NANOFLUIDS BY OXIDATION AT HIGH TEMPERATURES**  
Arslan R., Akyol E., Dalkılıç A. S., Wongwises S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.1548
- X. **EXPERIMENTAL SETUP DESIGN FOR INVESTIGATION OF FLOW BOILING HEAT TRANSFER CHARACTERISTICS OF R-134A IN HELICALLY COILED TUBES WITH SMOOTH AND CORRUGATED SURFACES**  
Kırkar Ş. M., Dalkılıç A. S.

6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.605-610

- XI. **OPTIMUM INSULATION THICKNESS IN SUBMARINE**  
Dalkılıç A. S., Durmaz S., Çolak A. B., Wongwises S.  
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.1562
- XII. **Analysis of thermal comfort in room via computational fluid dynamics**  
Özsağiroğlu S., Camcı M., Dalkılıç A. S.  
3th International Congress on Engineering and Technology Management, İstanbul, Turkey, 16 - 17 April 2020, pp.69
- XIII. **A short review of internal mixed convective heat transfer at building applications**  
Cancı M., Açıkgöz Ö., Dalkılıç A. S.  
5th international conference on advances in mechanical engineering İstanbul 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1386-1393
- XIV. **BRIEF LITERATURE REVIEW ON THE FLOW BOILING HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS**  
KIRKAR Ş. M., Akgül D., ÖNAL B. S., DALKILIÇ A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XV. **A REVIEW ON NANOFLUIDS VISCOSITY AND DENSITY EFFECTS ON THERMAL APPLICATIONS**  
Arslan R., Akyol E., Dalkılıç A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.2326-2341
- XVI. **AERODYNAMIC ANALYSIS AND AERO PACKAGE OPTIMIZATION IN TRUCKS**  
DALKILIÇ A. S., GÖNÜL A., Kırklaroğlu M., Deniz Y., Koç O. K.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XVII. **INVESTIGATION OF CONDENSATION CHARACTERISTICS FOR INCLINED PIPES ON RECENT LITERATURE**  
Özçelik G., İnce İ. T., Bedir H. İ., Dalkılıç A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XVIII. **BRIEF LITERATURE REVIEW ON THE BOILING HEAT TRANSFER CHARACTERISTICS OF INCLINED TUBES**  
Karademir H., AÇIKGÖZ Ö., CELEN A., DALKILIÇ A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XIX. **Production of Carbon Fibers and Paper From Vegetable Fibers for Fuel Cells**  
Düzgün Z., TANER T., DALKILIÇ A. S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XX. **SIMULATION OF FLUID STRUCTURE INTERACTION AROUND A BEAM AT VARIOUS SHAPES AND INCLINATION ANGLES**  
TABATABAEI MALAZI M., AFSHARI F., DALKILIÇ A. S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XXI. **INVESTIGATION OF THE COAL AND BIOMASS FUELS EFFECTS ON BOILER EFFICIENCY IN COGENERATION POWER PLANTS**  
Berber Ş., TANER T., DALKILIÇ A. S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XXII. **BRIEF LITERATURE REVIEW ON THE CONDENSATION HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS**  
ÖNAL B. S., KIRKAR Ş. M., Akgül D., CELEN A., AÇIKGÖZ Ö., DALKILIÇ A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XXIII. **BRIEF LITERATURE REVIEW ON THE SINGLE-PHASE FLOW HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS**  
Akgül D., KIRKAR Ş. M., ÖNAL B. S., CELEN A., AÇIKGÖZ Ö., DALKILIÇ A. S., Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- XXIV. **Production of carbon fibers and paper from vegetable fibers for using fuel cells**

- Düzcün Z., TANER T., DALKILIÇ A. S.  
5th Conference On Advances in Mechanical Engineering Icame 2019, İstanbul, Turkey, 19 - 21 December 2019
- XXV. **NUMERICAL INVESTIGATION ON HEAT TRANSFER AND PRESSURE DROP CHARACTERISTICS OF HELICALLY COILED HEAT EXCHANGERS**  
Kırkar Ş. M., İren K., Gönül A., Celen A., Dalkılıç A. S.  
World Energy Strategies Congress and Exhibition (WESCE-2019), İstanbul, Turkey, 26 - 28 August 2019
- XXVI. **A research on heat transfer characteristics of hairpin heat exchangers numerically**  
Dalı O., DALKILIÇ A. S., GÖNÜL A., İren K., TANER T.  
5. Uluslararası Muhendislik Mimarlık ve Tasarım Kongresi, 23 - 24 April 2019
- XXVII. **An Experimental Investigation on Heat Transfer Characteristics over an Underfloor Heating System**  
Açıkgöz Ö., Karakoyun Y., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1831-1843
- XXVIII. **NATURAL GAS DISTRIBUTION NETWORK IN SUPPLY SECURITY SUPPORT: DEMAND FORECAST STUDY FOR ISTANBUL**  
Balıkçı V., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.37
- XXIX. **Cooling Technology and Thermodynamic Applications for Food Preservation**  
Taner Ö., Taner T., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1133-1136
- XXX. **DETERMINATION OF THE VISCOSITY CHARACTERISTICS OF WATER BASED SiO<sub>2</sub>-GRAPHITE HYBRID NANOFLUIDS**  
Dalkılıç A. S., Açıkgöz Ö., Küçükıldırım B. O., Akdoğan Eker A.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1844-1855
- XXXI. **Numerical Investigation on the External Flow of Tube Bank**  
Dalkılıç A. S., Çebi A., Batur A., Wongwises S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.129-135
- XXXII. **3-Dimensional Numerical Simulation of Helical Coil Heat Exchangers**  
Gönül A., Mercan H., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1097
- XXXIII. **Numerical Optimization of Pin Fin Heat Sink for Electronic Cooling**  
Türk O. A., Yavaş M., Celen A., Dukhan N., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.129-135
- XXXIV. **Experiments on Determination of Heat Transfer Coefficients for a Radiant Heated Enclosure**  
Karakoyun Y., Dalkılıç A. S., Yumurtacı Z., Açıkgöz Ö., Demirtaş S.  
INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, no.1, pp.1240-1245
- XXXV. **A review of energy management in industry**  
Öztuna Taner Ö., Taner T., Dalkılıç A. S.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.262-269
- XXXVI. **An Investigation to Determine Heat Transfer Characteristics of R134a Used In Smooth and Microfin Pipes**  
Celen A., Dalkılıç A. S., Açıkgöz Ö.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- XXXVII. **Determination of Design Parameters Effects on the Cost of a Double-Pipe Heat Exchanger**  
Dalkılıç A. S., Mercan H., Özçelik G.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- XXXVIII. **AN EXAMINATION OF FLOW BOILING OF R134A THROUGH A MULTI-MICROCHANNEL HEAT SINK**

- Dalkılıç A. S., Açığöz Ö., Wongwises S.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- XXXIX. **An Investigation to Acquire Radiative Heat Transfer Coefficients in a Radiant Ceiling Cooling Application**  
Açığöz Ö., Celen A., Dalkılıç A. S.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- XL. **CFD analyses on the cooling of electronic chipsets using various types of heat sinks**  
Dalkılıç A. S., Ekici E., Kılıç B., Nuhoğlu U., Kaya M. A., Wongwises S.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES: THAILAND 2017, Chon-Buri, Thailand, 3 - 05 July 2017, pp.1-15
- XLI. **Experimental apparatus for the determination of heat transfer coefficients for radiant heating/cooling systems**  
Karakoyun Y., Dalkılıç A. S., Yumurtacı Z., Çakır A., Ayten F., Toka M.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES: THAILAND 2017, Phuket, Thailand, 3 - 05 July 2017
- XLII. **Experimental Analyses on the Single Stage Vapor Compression Cycle**  
Dalkılıç A. S., Wongwises S., Ekici E., Kılıç B.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES: THAILAND 2017, Chon-Buri, Thailand, 3 - 05 July 2017, pp.1-15
- XLIII. **A Feasibility Study of Solar Energy-Economic Analysis from Aksaray, Turkey**  
TANER T., DALKILIÇ A. S.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Turkey, 25 - 28 April 2017, pp.537-540
- XLIV. **SINGLE-PHASE TURBULENT FLOW OF R-134A IN A MULTIPORTMICROCHANNEL HEAT SINK**  
Dalkılıç A. S., Yılmaz S., Sakamatapan K., Wongwises S.  
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Turkey, 25 - 28 April 2017, pp.1-15
- XLV. **Determination of the Viscosity of refrigeration Compressor Oils With carbon Nanotubes**  
Dalkılıç A. S., Öztürk H. T., Eker Akdoğan A., Küçüküyıldırım B. O., Jumholkul C., Wongwises S.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS, İstanbul, Turkey, 29 - 31 March 2017, pp.1-15
- XLVI. **CFD ANALYSIS ON THE INNER FLUID'S OPTIMUM VELOCITY IN A PIPE IN PIPE HEAT EXCHANGER**  
Dalkılıç A. S., Demir H., Kılıç B., Wongwises S.  
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE 2017 – ICPAS 2017, İstanbul, Turkey, 4 - 06 January 2017, pp.1-15
- XLVII. **Validation of domestic radiators' thermal capacity with a numerical software**  
Dalkılıç A. S., Açığöz Ö., Ekici E., Wongwises S.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Turkey, 4 - 06 January 2017, pp.1-15
- XLVIII. **Numerical Solution of Heat Exchanger Used in Petroleum Industry**  
Bander Kanaan M., Celik M. S., Dalkılıç A. S., Heperkan H. A.  
1th INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE, İstanbul, Turkey, 4 - 06 January 2017, pp.1-15
- XLIX. **Thermoeconomic analysis aimed parametric study on the vapor compression system cascaded with NH3 water absorption cascade refrigeration cycle**  
Dalkılıç A. S., Celen A., Çebi A., Sandalcı T., Berk M., Semih O.  
International Conference on Mechanical and Production Engineering, Chon-Buri, Thailand, 13 - 14 July 2016, pp.1-15
- L. **An experimental investigation on the use of natural gas diesel fuel mixture on performance and emissions of a CI engine**  
Karagöz Y., Sandalcı T., Işın Ö., Dalkılıç A. S.  
International Conference on Mechanical and Production Engineering, Bangkok, Thailand, 13 - 14 July 2016, pp.1-15
- LI. **Pin on disk test for aluminum graphene metal matrix composites**  
İstif İ., Tunçel M., Dalkılıç A. S.  
International Conference on Mechanical and Aeronautical Engineering, Bangkok, Thailand, 13 - 14 July 2016, pp.58-61
- LII. **Investigation and generalization of convective heat transfer in different room geometries**  
Açığöz Ö., Dalkılıç A. S., Wongwises S.  
Conference on Mechanical and Production Engineering, Chon-Buri, Thailand, 13 - 14 July 2016, pp.1-15



- LIII. **The heat transfer analysis of plate fin heat exchanger used for energy recovery application a case study**  
Celen A., Aslan E., Celen P., Çebi A., Dalkılıç A. S.  
Conference of the International Journal of Arts & Sciences, Barcelona, Spain, 23 - 26 May 2016, vol.9, pp.1-15
- LIV. **Determination of R134a s convective heat transfer coefficient in horizontal evaporators having smooth and corrugated tubes**  
Dalkılıç A. S., Açıkgöz Ö., Tapan Ş., Wongwises S.  
International Conference on Mechanical and Production Engineering, Chon-Buri, Thailand, 13 - 14 May 2016
- LV. **A numerical investigation on the convective heat transfer coefficient in radiant ceiling cooling systems**  
Açıkgöz Ö., Dalkılıç A. S.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- LVI. **Experimental apparatus design for study of pool boiling heat transfer characteristics of Al2O3 water nanofluids on a horizontal cylindrical heating surface**  
Dalkılıç A. S., Açıkgöz Ö.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- LVII. **Calculation procedure of double pipe heat exchanger design having nanofluid flow**  
Dalkılıç A. S.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.963-965
- LVIII. **New approach on the determination of the total heat transfer coefficient in radiant wall heating systems**  
Açıkgöz Ö., Dalkılıç A. S.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- LIX. **Experimental apparatus design for study of heat transfer and flow characteristics of water flowing through internally grooved tubes**  
Dalkılıç A. S., Açıkgöz Ö.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- LX. **COMPUTATIONAL INVESTIGATION OVER CONVECTIVE HEAT TRANSFER IN RADIANT HEATED LIVING PLACES**  
Açıkgöz Ö., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015, İstanbul, Turkey, 23 - 25 December 2015, pp.1055-1058
- LXI. **Fundamental Basis and Implementation of Shell and Tube Heat Exchanger Project Design: Condenser Study**  
Açıkgöz Ö., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015, İstanbul, Turkey, 23 - 25 December 2015, pp.1059-1066
- LXII. **EFFECT OF FUEL TEMPERATURE ON PERFORMANCE AND EMISSIONS OF A COMPRESSION IGNITION ENGINE**  
Karagöz Y., Guler İ., Duymaz G., Yüksek L., Sandalcı T., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, İstanbul, Turkey, 23 - 25 December 2015, pp.1-15
- LXIII. **EXPERIMENTALLY DETERMINATION OF INJECTION CHARACTERISTIC OF A MECHANICAL FUEL SYSTEM EQUIPPED DIESEL ENGINE CONVERTED TO COMMON RAIL FUEL SYSTEM**  
Tunçer E., Sandalcı T., Karagöz Y., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, İstanbul, Turkey, 23 - 25 December 2015, pp.1-15
- LXIV. **Experimental Apparatus For The Determination of Velocity Distribution of Hot Round Jet in Cross Flow**  
Sevindir M. K., Dalkılıç A. S., Heperkan H. A.  
INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 13 - 15 May 2015, pp.136-140
- LXV. **Fundamental basis and implementation of shell and tube heat exchanger project design Evaporator Study**  
Dalkılıç A. S., Tapan Ş., Wongwises S.  
International Conference on Mechanical and Production Engineering (2015), July 11-12, Thailand., Chon-Buri, Thailand, 11 - 12 July 2015, pp.283-291
- LXVI. **EXPERIMENTAL APPARATUS FOR THE DETERMINATION OF VELOCITY DISTRIBUTION OF HOT ROUND A JET IN CROSS FLOW**  
Sevindir M. K., Dalkılıç A. S., Heperkan H. A.  
INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 13 - 15 May 2015, pp.1-15
- LXVII. **Numerical investigation of the single phase forced convection heat transfer characteristics of Nanofluid flowing in circular and noncircular tubes**  
Kayaci N., Dalkılıç A. S., Malazi M. T., Wongwises S.  
ASME 2015 International Mechanical Engineering Congress and Exposition, IMECE 2015, Texas, United States Of America, 13 -

19 November 2015

- LXVIII. **The investigation of convective heat transfer in different room geometries by means of numerical solution techniques**  
AÇIKGÖZ Ö., DALKILIÇ A. S., Kıncay O., Wongwises S.  
Energy Technologies Conference (ENTECH14), 22 - 24 December 2014
- LXIX. **A critical review on condensation heat transfer in microchannels and minichannels**  
Awad M., DALKILIÇ A. S., Wongwises S.  
Proceedings of the 15th International Heat Transfer Conference (2014), 10 - 15 August 2014
- LXX. **Effect of the heat recovery system to the performance of air handling unit of workplace**  
DALKILIÇ A. S., CELEN A., Şenlen A., ÇEBİ A., Wongwises S.  
ASME 2014 Fluids Engineering Summer Meeting (FEDSM2014), 3 - 07 August 2014
- LXXI. **Effect of the heat recovery system to the performance of air handling unit of a workplace**  
Senlen O. A., Celen A., Çebi A., Dalkılıç A. S., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXII. **A focus on the literature review of nanorefrigerants**  
Dalkılıç A. S., Aktas M., Celen A., Mahian O., Çebi A., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXIII. **Smoke control of a car park by means of CFD analyses using jet fans**  
Celen A., Kundu B., Dalkılıç A. S., Atayılmaz Ş. Ö., Kayaci N., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXIV. **Performance comparison of various VRV systems for a bank application**  
Karaağaç M., Celen A., Çebi A., Dalkılıç A. S., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXV. **Refrigerated railroad car design for shipping frozen meat using alternative refrigerants**  
Alkan B., Celen A., Çebi A., Dalkılıç A. S., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXVI. **Thermodynamic analysis of solar heat pump assisted heating systems**  
Siyahhan Türkgenç Z., Çebi A., Celen A., Dalkılıç A. S., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXVII. **Determination of pressure drop of pure water flowing upward direction in a double tube heat exchanger having smooth and microfin tubes**  
Çebi A., Celen A., Dalkılıç A. S., Sevindir M. K., Wongwises S.  
ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting, FEDSM 2014, Collocated with the ASME 2014 12th International Conference on Nanochannels, Microchannels, and Minichannels, Illinois, United States Of America, 3 - 07 August 2014
- LXXVIII. **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.  
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.2
- LXXIX. **FUndamental basis and application of cold-room project design: A case study of frigoship**  
ÖZTÜRK M., GOKTEPE E., Celen A., Çebi A., DALKILIÇ A. S., WONGWISES 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.1

- LXXX. **A critical review on the determination of pressure drop during condensation in smooth and enhanced tubes**  
DALKILIÇ A. S., Celen A., AWAD M. M., WONGWISES 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.2
- LXXXI. **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
- LXXXII. **A critical review on the determination of convective pressure drop during condensation in smooth and enhanced tubes**  
DALKILIÇ A. S., CELEN A., Awad M., Wongwises S.  
ASME 2013 Summer Heat Transfer Conference, 14 - 19 July 2013
- LXXXIII. **Fundamental basis and application of cold-room project design: A case study of fisherman**  
ÖZTÜRK M., Göktepe E., DALKILIÇ A. S., CELEN A., Wongwises S.  
ASME 2013 Summer Heat Transfer Conference, 14 - 19 July 2013
- LXXXIV. **PREDICTION OF PRESSURE DROP OF VARIOUS REFRIGERANTS DURING CONDENSATION IN HORIZONTAL SMOOTH AND MICRO-FIN TUBES BY MEANS OF ARTIFICIAL NEURAL NETWORKS**  
Balçılar M., Dalkılıç A. S., Atayılmaz Ş. Ö., Demir H., Wongwises S.  
ASME International Mechanical Engineering Congress and Exposition, Texas, United States Of America, 9 - 15 November 2012, pp.303-312
- LXXXV. **EFFECT OF THE HEAT RECOVERY SYSTEM TO THE PERFORMANCE OF AIR HANDLING UNIT OF A SHOPPING CENTRE**  
Kelasovali F., Celen A., Kayaci N., DALKILIÇ A. S., Wongwises S.  
ASME International Mechanical Engineering Congress and Exposition, Texas, United States Of America, 9 - 15 November 2012, pp.685-691
- LXXXVI. **Numerical investigation of the single phase forced convection heat transfer characteristics of nanofluid flowing in smooth and micro-fin tubes**  
Kayaci N., Celen A., DALKILIÇ A. S., TABATABAEI M., Yildiz O., WONGWISES S.  
ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.7, pp.63-75
- LXXXVII. **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.  
ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.7, pp.2547-2561
- LXXXVIII. **A critical review on the numerical methods of two-phase flows**  
BALCILAR M., CELEN A., KAYACI N., DALKILIÇ A. S., Wongwises S.  
ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.7, pp.289-302
- LXXXIX. **A critical review on the numerical methods of two-phase flows**  
Balçılar M., DALKILIÇ A. S., Çelen A., Kayaci N., WONGWISES S.  
ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.7, pp.289-302
- XC. **The design of a yacht-Type chiller**  
KAYKI M., Celen A., Kayaci N., DALKILIÇ A. S., WONGWISES S.  
ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.7, pp.1533-1541
- XCI. **Effect of the heat recovery system to the performance of air handling unit of a shopping centre of a shopping centre**  
KELASOVALI F., Celen A., Kayaci N., DALKILIÇ A. S., WONGWISES S.

ASME 2012 International Mechanical Engineering Congress and Exposition, IMECE 2012, Houston, TX, United States Of America, 9 - 15 November 2012, vol.6, pp.685-691

- XCII. A critical review on the numerical methods of two phase flows**  
BALCILAR M., DALKILIÇ A. S., CELEN A., KAYACI N., Wongwises S.  
ASME 2012, 12 - 17 November 2012
- XCIII. A yacht-type chiller design**  
Kayki M., KAYACI N., CELEN A., DALKILIÇ A. S., Wongwises S.  
ASME 2012 International Mechanical Engineering Congress Exposition, 9 - 15 November 2012
- XCIV. Numerical investigation of heat transfer enhancement using water based nanofluids flowing in enhanced tubes**  
KAYACI N., CELEN A., Tabatabaei M., YILDIZ O., DALKILIÇ A. S., Wongwises S.  
ASME 2012 International Mechanical Engineering Congress Exposition, 9 - 15 November 2012
- XC.V. Critical review on the determination of physical properties of nanofluids for the convective heat transfer in tubes**  
DALKILIÇ A. S., KAYACI N., CELEN A., Daungthongsuk W., Wongwises S.  
The 3rd TSME International Conference on Mechanical Engineering (2012), 24 - 26 October 2012
- XC.VI. Comparison of various alternative refrigerants for vapour compression refrigeration systems**  
DALKILIÇ A. S., WONGWISES S.  
ASME/JSME 2011 8th Thermal Engineering Joint Conference, AJTEC 2011, Honolulu, HI, United States Of America, 13 - 17 March 2011
- XC.VII. Optimization of the relationship between the two-phase friction factor and reynolds equivalent number model by means of genetic algorithm**  
BOLAT B., Balcilar M., DALKILIÇ A. S., WONGWISES S.  
ASME/JSME 2011 8th Thermal Engineering Joint Conference, AJTEC 2011, Honolulu, HI, United States Of America, 13 - 17 March 2011
- XC.VIII. Comparison of two-phase friction factors using Reynolds equivalent number model during annular laminar flow of R134a in a vertical tube at high mass flux**  
DALKILIÇ A. S., Wongwises S.  
ASME-JSME-KSME Joint Fluids Engineering Conference, ASME-JSME-KSME (2011), 24 - 29 July 2011
- XCIX. Prediction of two-phase friction factor of refrigerants inside a horizontal tube using CFD analysis for the homogeneous condensation flow**  
DALKILIÇ A. S., KÜREKÇİ N. A., Wongwises S.  
ASME-JSME-KSME Joint Fluids Engineering Conference, ASME-JSME-KSME (2011), 24 - 29 July 2011
- C. Optimization of the relationship between the two-phase friction factor and Reynolds equivalent number model by the means of Genetic Algorithm**  
Bolat B., Balcilar M., Dalkılıç A. S., Wongwises S.  
ASME/JSME 2011 8th Thermal Engineering Joint Conference, Hawaii, United States Of America, 13 - 17 April 2011, pp.1-15
- CI. Experimental study on the flow regime identification in the case of co-current condensation of R134a in a vertical smooth tube**  
Dalkılıç A. S., Wongwises S.  
2010 14th International Heat Transfer Conference, IHTC 14, Washington, United States Of America, 8 - 13 August 2010, vol.2, pp.1-10
- CII. A numerical investigation of nanofluids forced convection flow in a horizontal smooth tube**  
Demir H., Dalkılıç A. S., Kürekci N. A., Keleşoğlu B., Wongwises S.  
2010 14th International Heat Transfer Conference, IHTC 14, Washington, United States Of America, 8 - 13 August 2010, vol.6, pp.575-584
- CIII. Determination of condensation heat transfer characteristics of R134a by means of artificial intelligence method**  
Balcilar M., Dalkılıç A. S., Wongwises S.  
ASME 2010 International Mechanical Engineering Congress and Exposition, IMECE 2010, Vancouver, Canada, 12 - 18 November 2010, vol.7, pp.151-160
- CIV. Determination of condensation heat transfer characteristics of R134a by means of artificial intelligence method**  
Balcilar M., Dalkılıç A. S., Wongwises S.  
International Mechanical Engineering Congress and Exposition, ASME (2010), New-York, United States Of America, 12 - 18 November 2010

- CV. **Comparison of condensation frictional pressure drop models and correlations during annular flow of R134a inside a vertical tube**  
DALKILIÇ A. S., Laohalertdecha S., Wongwises S.  
Thermal and Environmental Issues in Energy Systems, ASME-ATI-UTI, (2010), 16 - 19 May 2010
- CVI. **Experimental apparatus for the determination of nusselt and rayleigh numbers during natural convection from a heated horizontal cylinder**  
ATAYILMAZ Ş. Ö., DALKILIÇ A. S., DEMİR H., KÜREKÇİ N. A.  
ASME 2009 International Mechanical Engineering Congress and Exposition, IMECE2009, Lake Buena Vista, FL, United States Of America, 13 - 19 November 2009, vol.9, pp.1029-1037
- CVII. **Experimental research on the similarity of annular flow models and correlations for the condensation of R134a at high mass flux inside vertical and horizontal tubes**  
DALKILIÇ A. S., LAOHALERTDECHA S., WONGWISES S.  
ASME 2009 International Mechanical Engineering Congress and Exposition, IMECE2009, Lake Buena Vista, FL, United States Of America, 13 - 19 November 2009, vol.9, pp.1523-1534
- CVIII. **Experimental research on the comparison of LDA and PIV measuring systems for the determination of the air velocity inside a square channel**  
DALKILIÇ A. S., KÜREKÇİ N. A., ATAYILMAZ Ş. Ö.  
ASME 2009 International Mechanical Engineering Congress and Exposition, IMECE2009, Lake Buena Vista, FL, United States Of America, 13 - 19 November 2009, vol.9, pp.1853-1866
- CIX. **Experimental investigation on the condensation heat transfer and pressure drop characteristics of R134A at high mass flux conditions during annular flow regime inside a vertical smooth tube**  
DALKILIÇ A. S., LAOHALERTDECHA S., WONGWISES S.  
2009 ASME Summer Heat Transfer Conference, HT2009, San Francisco, CA, United States Of America, 19 - 23 July 2009, vol.3, pp.345-357
- CX. **Experimental apparatus for the determination of condensation heat transfer coefficient for R134A and R600A flowing inside vertical and horizontal tubes respectively**  
DALKILIÇ A. S., AĞRA Ö.  
2009 ASME Summer Heat Transfer Conference, HT2009, San Francisco, CA, United States Of America, 19 - 23 July 2009, vol.1, pp.549-563
- CXI. **Experimental Apparatus for the determination of Nusselt and Rayleigh numbers during natural convection from heated horizontal cylinders**  
ATAYILMAZ Ş. Ö., DALKILIÇ A. S., DEMİR H., KÜREKÇİ N. A.  
International Mechanical Engineering Congress and Exposition, ASME (2009), 13 - 19 November 2009
- CXII. **Two-phase friction factor obtained from various void fraction models during condensation of R134A in vertical downward flow at high mass flux**  
DALKILIÇ A. S., LAOHALERTDECHA S., WONGWISES S.  
2008 ASME Summer Heat Transfer Conference, HT 2008, Jacksonville, FL, United States Of America, 10 - 14 August 2008, vol.2, pp.193-206
- CXIII. **A heat transfer model for co-current downward laminar film condensation of R134a in a vertical micro-fin tube during annular flow regime**  
DALKILIÇ A. S., Wongwises S.  
the Eleventh UK National Heat Transfer Conference, Londrina, Brazil, 6 - 08 September 2009
- CXIV. **Experimental apparatus for the determination of condensation heat transfer coefficient for R134a and R600a flowing inside vertical and horizontal tubes**  
Dalkılıç A. S., Ağra Ö.  
Summer Heat Transfer Conference, ASME (2009), California, United States Of America, 19 - 23 July 2009, pp.1-15
- CXV. **A comparison of the void fraction correlations of R134a during condensation in vertical downward laminar flow in a smooth and microfin tube**  
Dalkılıç A. S., Laohalertdecha S., Wongwises S.  
1st ASME Micro/Nanoscale Heat Transfer International Conference, MNHT08, Tainan, Taiwan, 6 - 09 January 2008, pp.1029-1040
- CXVI. **Two-phase friction factor obtained from various void fraction models of R-134a during condensation in vertical downward flow at high mass flux**  
Dalkılıç A. S., Laohalertdecha S., Wongwises S.  
HT2008: Proceedings of the ASME Summer Heat Transfer Conference-2008, Florida, United States Of America, 10 - 14 August

2008, pp.1-15

**CXVII. Yüzme Havuzlarında Boru optimizasyon**

KOYUN A., DALKILIÇ A. S., DEMİR H.

Havuz Konferansı, Turkey, 01 July 1999

**CXVIII. Yüzme Havuzlarında Boru Çapı Optimizasyonu**

Koyun A., Dalkılıç A. S., Demir H.

TMMOB Havuz Konferansı, İstanbul, Turkey, 20 - 21 February 1999, pp.187-197

**CXIX. Yüzme Havuzlarında Boru Optimizasyonu**

Koyun A., Dalkılıç A. S., Demir H.

Havuz Konferansı, İstanbul, Turkey, 1 - 02 February 1999

## Supported Projects

AÇIKGÖZ Ö., CANBAY TÜRKİYILMAZ Ç., CAMCI M., KARAKOYUN Y., Rahmanparast A., WONGWİSES S., DALKILIÇ A. S., ÇELİK E., Bardakçı A. T., Project Supported by Higher Education Institutions, Isıtma Sezonunda Radyant Sistemlerle Beraber Farklı Hibrit İklimlendirme Sistemlerin Termal Konfora Etkisi, 2022 - Continues

Dalkılıç A. S., Horizon Europe Project, Integration of Advanced Experiments, Computation and Data for Innovation in Freeze Casting and Advanced Porous Structures, 2024 - 2028

DALKILIÇ A. S., GÖNÜL A., CELEN A., AKYOL E., KIRBOĞA OKUMUŞ S., WONGWİSES S., Akgül D., MERCAN H., AÇIKGÖZ Ö., KAYACI N., et al., Project Supported by Higher Education Institutions, Tek ve İki Fazlı Akışlarda Üç Borulu Isı Değiştiricilerinde Isı Transferi Karakteristiklerinin Deneysel Olarak Araştırılması, 2021 - 2023

Mercan H., DALKILIÇ A. S., Project Supported by Higher Education Institutions, Hibrit Nanoakışkanlı İki Borulu İç Yüzeyi Pürüzsüz ve İyileştirilmiş Isı Değiştiricilerindeki İki Fazlı Akışlarda Eğim Açısının Isı Transferi Karakteristiklerine Etkisinin Deneysel Olarak İncelenmesi, 2021 - 2023

DALKILIÇ A. S., KIRKAR Ş. M., KOYUN A., AÇIKGÖZ Ö., AKYOL E., KIRBOĞA OKUMUŞ S., Önal B. S., Akgül D., WONGWİSES 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 - 2023

Gönül A., Bayrak F., Dalkılıç A. S., Project Supported by Higher Education Institutions, Koruge yüzeyli borularda bükümlü şerit uygulamalarının ısı-akış performansa etkisinin sayısal olarak incelenmesi, 2021 - 2022

ÖZKAYA B., AÇIKGÖZ Ö., BALIK D., DALKILIÇ A. S., BİLGİLİ M. S., KAVANOZ S., ACAR VURAL R., TOPUZUĞULLARI M., KAYA İ., ŞEHİTOĞLU Y., et al., Project Supported by Higher Education Institutions, Yayıncısı Yıldız Teknik Üniversitesi olan akademik dergilerimiz için iyileştirilmiş güncel ve sürdürülebilir bir yapılanma sağlanarak dergilerin etkinliğinin ve Üniversitemizin tanınırlığının artırılması, 2021 - 2022

BOĞOÇLU M. E., HASILCI Z., DALKILIÇ A. S., Project Supported by Higher Education Institutions, Kuş Çarpmasına Maruz Kalan Kompozit Yapıların Analizinde Tam Bağlantılı Sinir Ağları Kullanılarak Tahmin Modelinin Geliştirilmesi, 2020 - 2022

AÇIKGÖZ Ö., CAMCI M., DALKILIÇ A. S., KARAKOYUN Y., Project Supported by Higher Education Institutions, Radyant Yüzeyli Isıtma Sistemlerinde Havalandırmanın Isı Geçişi Karakteristiklerine Etkisinin İncelenmesi, 2019 - 2021

Açıkğöz Ö., Dalkılıç A. S., Karakoyun Y., Camcı M., Project Supported by Higher Education Institutions, Radyant Yüzeyli Isıtma Sistemlerinde Havalandırmanın Isı Geçişi Karakteristiklerine Etkisinin İncelenmesi, 2019 - 2021

Celen A., Kalkan O., Dalkılıç A. S., Bakırcı K., Project Supported by Higher Education Institutions, ELEKTRİK VE HİBRİT ARAÇLARDA KULLANILAN PRİZMATİK BATARYALARIN SIVI İLE SOĞUTULMASININ DENEYSEL OLARAK ARAŞTIRILMASI, 2019 - 2021

Açıkğöz Ö., Celen A., Dalkılıç A. S., Bilge Z. D., Project Supported by Higher Education 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 Yüzeyi İyileştirilmiş Borularda Isı Transferi Karakteristiklerinin Deneysel ve Nümerik Olarak İncelenmesi, 2013 - 2017

Kürekcı N. A., Dalkılıç A. S., 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

Dalkılıç A. S., Yıldız S., Teke İ., Akaryıldız E., Özgür D., Project Supported by Other Official Institutions, Düşey Borular İçinde

## 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

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

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

Correlation for Dropwise Condensation Heat Transfer: Water, Organic Fluids, and Inclination/International Journal of Heat and Mass Transfer, SCI Journal, August 2012

HFC-134a ve alternatifi soğutkanların (HFO-1234yf ve HFO-1234ze) soğutma çevrimi performansı açısından karşılaştırılması/G.Ü. Mühendislik-Mimarlık Fakültesi Dergisi, SCI Journal, August 2012

Velocity and Temperature Profiles Extending over the Liquid and Gas/Applied Thermal Engineering, SCI Journal, August 2012

Experimental investigations on nucleate pool boiling in water and water miscible binary/International Journal of Heat and Mass Transfer, SCI Journal, July 2012

Thermal Performance Prediction of Two-Phase Closed Thermosyphon Using Adaptive Neuro-Fuzzy Inference Scheme/Heat Transfer Engineering, SCI Journal, July 2012

Modeling of heat transfer characterization of a two-phase closed thermosyphon using MWCNT/water and MWCNT-Ag/water nanofluids/Polish Journal of Chemical Technology, SCI Journal, June 2012

Experimental Measurement and Modeling of Downflow Condensation in a Circular Tube/International Journal of Heat and Mass Transfer, SCI Journal, May 2012

Investigation of environmental and heat transfer analysis of air conditioner using hydrocarbon mixture compared to R22/The Arabian Journal for Science and Engineering, SCI Journal, May 2012

A Simplified Three-Zone Model for Designing Shell-and-Tube Refrigerant Condensers/ISI BİLİMİ ve TEKNİĞİ DERGİSİ, SCI Journal, May 2012

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

Modeling of the Natural Convection from a Horizontal Isothermal Cylinder Located over an Adiabatic Surface using Artificial Neural Network/Chemical Engineering Communications, 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

An equivalent-capacitance approach for determining the performance of a heat exchanger/Applied Thermal Engineering, SCI Journal, February 2012

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

Frictional Pressure Drop of Water Flow in Internally-Ribbed Enhanced Tubes/Research Paper/Experimental Thermal and Fluid Science, SCI Journal, August 2011

Correlations of Heat Transfer for Film-Type Condensation: Comparative Study/Research Paper/International Journal of Heat and Mass Transfer, SCI Journal, August 2011

Thermal performance of a heat pipe with nanoparticles coated wick/Research Paper/Applied Thermal Engineering, SCI Journal, August 2011

Effect of Tube Shape and Hydrophilic Coating on the Characteristics of Condensate Carryover in Heat Exchangers/Research Paper/Applied Thermal Engineering, SCI Journal, July 2011

Evaluation of using two-phase frictional pressure drop correlations for normal gravity to microgravity and reduced gravity/Research Paper/Advances in Space Research, SCI Journal, June 2011

Performance Analysis and Assessment of an Industrial Dryer in a Ceramic Production/Research Paper/Drying Technology, SCI Journal, March 2011

Condensation of R22 retrofit substitutes R417A, R422A and R422D on horizontal smooth tubes/Research Paper/Heat Transfer Engineering, SCI Journal, February 2011

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

Numerical Simulation of Boiling Two-Phase Flow in the Bubble Pump Tube by Two-Fluid Model /Research Paper/ ASME Journal of Heat Transfer, SCI Journal, February 2011

Reduced Effective Model for Condensation in Slender Tubes with Rotational Symmetry, Obtained by Generalized Dimensional Analysis/Research Paper/Applied Mathematical Modelling, SCI Journal, February 2011

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

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

The search for optimum condenser cooling water flow rate in a thermal power plant/Research Paper/Applied Thermal Engineering, SCI Journal, January 2011

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

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, October 2010

About Stability of a Vapour Jet Condensing in a Micro-Channel/Research Paper/ASME Journal of Heat Transfer, SCI Journal, October 2010

Thermo-chemical Characteristics of R134a Flow Boiling in Helically-coiled Tubes at Low Mass Flux and Low Pressure/Research Paper/Thermochimica acta, SCI Journal, July 2010

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**

Yumurtacı Z., Çakır O., Dalkılıç A. S., Altan M., Güneri A. F., 6th International Conference on Advances in Mechanical Engineering Istanbul 2021, Scientific Congress, Turkey, Ekim 2021

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

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

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



Turkey, Mayıs 2015

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

## Metrics

Publication: 352

Citation (WoS): 4627

Citation (Scopus): 5289

H-Index (WoS): 37

H-Index (Scopus): 38

## Congress and Symposium Activities

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

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

TÜBİTAK (BİDEB) BİLİM İNSANI DEST. DAİRE BAŞKANLIĞI, Panelists, Ankara, Turkey, 2019

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 İstanbul 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 İstanbul 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: İstanbul 2017, Working Group, İstanbul, Turkey, 2017

İstanbul International Conference on Science and Arts, Working Group, İstanbul, Turkey, 2017

İstanbul 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

2ND International Conference on Advances in Mechanical Engineering İstanbul 2016, Working Group, İstanbul, Turkey, 2016

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

International Conference on Mechanical and Production Engineering, Working Group, Nonthaburi, Thailand, 2015

Working Group, İstanbul, Turkey, 2015

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

ASME 2014 Fluids Engineering Summer Meeting, Working Group, Illinois, United States Of America, 2014

Working Group, Minnesota, United States Of America, 2013

ASME 2012 International Mechanical Engineering Congress & Exposition , Working Group, Texas, United States Of America, 2012

The 3rd TSME International Conference on Mechanical Engineering, Working Group, Nonthaburi, Thailand, 2012

ASME-JSME-KSME 2011 Joint Fluids Engineering , Working Group, Hamamatsu, Japan, 2011

Working Group, Hawaii, United States Of America, 2011

Working Group, Vancouver, Canada, 2010

2010 ASME 14th International Heat Transfer Conference, Working Group, Washington, United States Of America, 2010

ASME-ATI-UTI 2010 Thermal and Environmental Issues in Energy Systems, Working Group, Naples, Italy, 2010

Asme 2009 International Mechanical Engineering Congress and Exposition, Working Group, Florida, United States Of America, 2009

Working Group, London, United Kingdom, 2009

ASME 2009 Summer Heat Transfer Conference, Working Group, California, United States Of America, 2009

ASME 2008 Heat Transfer Summer Conference, Working Group, Florida, United States Of America, 2008

Working Group, Tainan, Taiwan, 2008

## Scholarships

2219-Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2010 - 2010

## Awards

Dalkılıç A. S., World Ranking of Top 2% Scientists, Stanford University, August 2021

Dalkılıç A. S., Teşekkür Belgesi: 1 Ocak-31 Aralık 2020 Dönemine Ait Yazar Sayısı ve Dergi Etki Puanı Sıralamasında Profesörler Arasında 4. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2021

Dalkılıç A. S., World Ranking of Top 2% Scientists , Stanford University, May 2020

Dalkılıç A. S., Teşekkür Belgesi: 1 Ocak-31 Aralık 2019 Dönemine Ait Yazar Sayısı ve Dergi Etki Puanı Sıralamasında Makine Fakültesi Öğretim Elemanları Arasında 3. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2020

Dalkılıç A. S., World Ranking of Top 2% Scientists , Stanford University, July 2019

Dalkılıç A. S., Bentham Ambassador , Bentham Science Publishers , July 2019

Dalkılıç A. S., Teşekkür Belgesi: 1 Ocak-31 Aralık 2018 Dönemine Ait Yazar Sayısı ve Dergi Etki Puanı Sıralamasında Makine Fakültesi Öğretim Elemanları Arasında 2. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2019

Dalkılıç A. S., Teşekkür Belgesi: 1 Ocak-31 Aralık 2017 Dönemine Ait Yazar Sayısı ve Dergi Etki Puanı Sıralamasında Makine Fakültesi Öğretim Elemanları Arasında 1. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2018

Dalkılıç A. S., Teşekkür Belgesi: 1 Ocak-31 Aralık 2016 Dönemine Ait Makale Etki Puanı ve Yazar Ağırlıklı Makale Puanı

Sıralamasında Makine Fakültesi Öğretim Elemanları Arasında 3. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2017

Dalkılıç A. S., Karagöz Y., Sandalcı T., Yüksek L., Wongwises S., Article of the Month: Effect of Hydrogen–Diesel Dual-Fuel Usage on Performance, Emissions and Diesel Combustion in Diesel Engines, *Advances In Mechanical Engineering* , August 2016

Dalkılıç A. S., Wongwises S., Kiatpachai P., Pikulkajorn S., Mahian O., Grand Prize, 44Th International Exhibitions Of Inventions Geneva , April 2016

Dalkılıç A. S., Wongwises S., Thiangtham P., Keepaboon C., Mahian O., Silver, 44Th International Exhibitions Of Inventions Geneva , April 2016

Dalkılıç A. S., Wongwises S., Aroonrat K., Laohalertdecha S., Mahian O., Gold Special, 44Th International Exhibitions Of Inventions Geneva, April 2016

Dalkılıç A. S., Wongwises S., Kiatpachai P., Pikulkajorn S., Mahian O., Gold Award, 44Th International Exhibitions Of Inventions Geneva , April 2016

Dalkılıç A. S., Teşekkür Belgesi: 1 Ekim 2014-31 Aralık 2015 Dönemine Ait Yazar Ağırlıklı Makale Puanı Sıralamasında Makine Fakültesi Öğretim Elemanları Arasında 3. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2016

Dalkılıç A. S., SCOPUS, JOURNAL OF THERMAL ENGINEERING, SORUMLU EDİTÖR, Elsevier, January 2015

Dalkılıç A. S., Teşekkür Belgesi: 2012-2013 Eğitim-Öğretim Yılında Uluslararası İndeksli Dergilerde En Fazla Yayın Yapan Yardımcı Doçentler Arasında 1. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2014

Dalkılıç A. S., Demir H., Kürekci N. A., Duangthongsuk W., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 12TH ON THE TOP 25 FOR INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER – JANUARY TO DECEMBER 2012 FULL YEAR, NUMERICAL INVESTIGATION ON THE SINGLE PHASE FORCED CONVECTION HEAT TRANSFER CHARACTERISTICS OF TIO<sub>2</sub> NANOFUIDS IN A DOUBLE-TUBE COUNTER FLOW HEAT EXCHANGER, Elsevier, January 2013

Dalkılıç A. S., Teşekkür Belgesi: 2011-2012 Eğitim-Öğretim Yılında Uluslararası İndeksli Dergilerde En Fazla Yayın Yapan Yardımcı Doçentler Arasında 1. Sırada Yer Alma, Yıldız Teknik Üniversitesi, January 2013

Dalkılıç A. S., Special Issue Editörü, Two-phase Flow and Heat Transfer Engineering, Hindawi Publishing Corporation, December 2012

Dalkılıç A. S., Elsevier Communispace Innovation Explorer, Elsevier, January 2012

Dalkılıç A. S., Demir H., Kürekci N. A., Duangthongsuk W., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 5TH ON THE TOP 25 FOR INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER – JANUARY TO DECEMBER 2011 FULL YEAR, NUMERICAL INVESTIGATION ON THE SINGLE PHASE FORCED CONVECTION HEAT TRANSFER CHARACTERISTICS OF TIO<sub>2</sub> NANOFUIDS IN A DOUBLE-TUBE COUNTER FLOW HEAT EXCHANGER, Elsevier, January 2012

Dalkılıç A. S., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 14TH ON THE TOP 25 FOR INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER – OCTOBER TO DECEMBER 2011, INTENSIVE LITERATURE REVIEW OF CONDENSATION INSIDE SMOOTH AND ENHANCED TUBES, Elsevier, January 2012

Dalkılıç A. S., Demir H., Kürekci N. A., Duangthongsuk W., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 4TH ON THE TOP 25 FOR INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER – JULY TO SEPTEMBER 2011, NUMERICAL INVESTIGATION ON THE SINGLE PHASE FORCED CONVECTION HEAT TRANSFER CHARACTERISTICS OF TiO<sub>2</sub> NANOFLUIDS IN A DOUBLE-TUBE COUNTER FLOW HEAT EXCHANGER, Elsevier, October 2011

Dalkılıç A. S., Demir H., Kürekci N. A., Duangthongsuk W., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 11TH ON THE TOP 25 FOR INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER – JANUARY TO MARCH 2011, NUMERICAL INVESTIGATION ON THE SINGLE PHASE FORCED CONVECTION HEAT TRANSFER CHARACTERISTICS OF TiO<sub>2</sub> NANOFLUIDS IN A DOUBLE-TUBE COUNTER FLOW HEAT EXCHANGER, Elsevier, April 2011

Dalkılıç A. S., Teşekkür Belgesi: SCI Kapsamındaki Dergilerde 2009-2010 Döneminde En Fazla Yayın Yapan Araştırma Görevlileri Arasında 3. Sırada Bulunma, Yıldız Teknik Üniversitesi, January 2011

Dalkılıç A. S., Teşekkür Belgesi: Science Citation Index-Expanded Kapsamındaki Dergilerde 2007-2009 Yıllarında Yayın Yapan Öğretim elemanları Arasında Bulunma, Yıldız Teknik Üniversitesi, January 2010

Dalkılıç A. S., Wongwises S., Most Downloaded Article: Intensive Literature Review of Condensation Inside Smooth and Enhanced Tubes, International Communications In Heat And Mass Transfer, July 2009

Dalkılıç A. S., Wongwises S., SCIENCEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES RANKED 7TH ON THE TOP 25 FOR INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER – APRIL TO JUNE 2009, INTENSIVE LITERATURE REVIEW OF CONDENSATION INSIDE SMOOTH AND ENHANCED TUBES, Elsevier, July 2009

## **Non Academic Experience**

King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand

King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand

King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand