

Prof. Ahmet Selim DALKILIÇ

Personal Information

Office Phone: [+90 212 383 2821](tel:+902123832821)

Fax Phone: [+90 212 383 3034](tel:+902123833034)

Email: dalkilic@yildiz.edu.tr

Other Email: ahmet_selim_dalkilic@hotmail.com

Web: <https://scholar.google.com/citations?user=7ma2im4AAAAJ&hl=en>

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

World Ranking of Top 2% Scientists by Stanford University

Citation metrics are widely used and misused. We have created a publicly available database of over 100,000 top scientists that provides standardized information on citations, h-index, co-authorship adjusted hm-index, citations to papers in different authorship positions, and a composite indicator. Separate data are shown for career-long and single-year impacts. Metrics with and without self-citations and the ratio of citations to citing papers are given. Scientists are classified into 22 scientific fields and 176 sub-fields. Field- and subfield-specific percentiles are also provided for all scientists who have published at least 5 papers. The selection is based on the top 100,000 by c-score (with and without self-citations) or a percentile rank of 2% or above.

The dataset and code provide an update to previously released version 1 data under

<https://doi.org/10.17632/btchxktzyw.1>

The version 2 dataset is based on the May 06, 2020, snapshot from Scopus and is updated to the citation year 2019 available at <https://doi.org/10.17632/btchxktzyw.2>

This version (3) is based on the Aug 01, 2021, snapshot from Scopus and is updated to the citation year 2020,

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>

This version (4) is based on the Sept 1, 2022, snapshot from Scopus, updated to the end of the citation year 2021, <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>

Ahmet Selim Dalkilic has been in the top 2% of world scientist lists announced up to now with his continuous high performance.

According to AD Scientific Index 2022, His ranking on Mechanical Engineering and Engineering & Technology in Yildiz Technical University, Turkey, Europe, and World can be seen from the link, <https://www.adscientificindex.com/scientist.php?id=191142>

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

Year	Academic Performance Score	Rank Amongst Professors in Faculty	Rank Amongst All Researchers in Faculty	Rank Amongst Professor in Department	Rank Amongst All Researchers in Department
Past	1729.41*	3/159	3/240	3/48	3/65
2014	346.02*	1/135	1/204	1/46	1/62
2015	348.45*	1/133	1/206	1/45	1/64
2016	572.99*	1/131	1/202	1/45	1/64
2017	756.71*	1/129	1/197	1/45	1/64
2018	673.58*	2/130	2/199	2/45	2/64
2019	728.69*	2/130	2/199	2/45	2/64
2020	837.50*	2/132	2/206	2/46	2/65
2021	887.94*	1/134	1/211	1/46	1/65
2022	907.92*	1/135	1/218	1/46	1/65
TOTAL	7800.01*	1/109	1/163	1/43	1/59

Foreign Languages

English, B1 Intermediate

Dissertations

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

Postgraduate, Kapalı olimpik yüzme havuzlarında iklim koşullarının sağlanması , Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 1999

Research Areas

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

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2020 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2014 - 2020

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2011 - 2014

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 1997 - 2011

Academic and Administrative Experience

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

Erasmus Coordinator, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2008 - 2014

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Yildiz Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2007 - 2008

Courses

Isıl ve Mekanik Sistem Tasarımı, 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., 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., Çolak A. B., Denizaltılarda Optimum Yalıtım Kalınlığının Belirlenmesi, Postgraduate, S.DURMAZ(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

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., Boğoçlu M. E., Kuş çarpmasına maruz kalan kompozit yapıların analizinde tam bağlantılı sinir ağları kullanılarak tahmin modelinin geliştirilmesi, Doctorate, Z.HASILCI(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., Düz ve Helisel Borularda Koruge Yüzeylerin Kullanımının Isı Geçişi Karakteristiklerine Etkisinin Sayısal Olarak İncelenmesi, Postgraduate, Ş.METİN(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., BİR MAHALIN TERMAL KONFOR ŞARTLARININ HESAPLAMALI AKIŞKANLAR DINAMIĞI YÖNTEMİ İLE ANALIZI, Postgraduate, S.ÖZSAĞIROĞLU(Student), 2020

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

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

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

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

Dalkılıç A. S., Mikrokanallı ısı alıcılarında akan R134A'nın kaynamasının deneysel olarak araştırılması, Postgraduate, C.ÖZMAN(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., Nanoakışkanlı çift borulu ısı değiştiricilerin optimizasyonu, Postgraduate, G.ÖZÇELİK(Student), 2018

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

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

Dalkılıç A. S., Mikrokanallı ısı değiştiricilerinde tek fazlı türbülanslı akışın deneysel incelenmesi, Postgraduate, S.YILMAZ(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. **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)
- II. **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)
- III. **Performance of refrigerants employed in rooftop air-conditioners**
Suerdem K., Taner T., Açıkgoz Ö., Dalkilic A. S., Panchal H.
JOURNAL OF BUILDING ENGINEERING, vol.70, pp.1-19, 2023 (SCI-Expanded)
- IV. **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)
- V. **Multi-objective optimization of single-phase flow heat transfer characteristics in corrugated tubes**
Kirkar Ş. M., Gönül A., Celen A., Dalkilic A. S.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.186, pp.1-21, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Prediction of nanofluid flows' optimum velocity in finned tube-in-tube heat exchangers using artificial neural network**
Çolak A. B., Mercan H., Açıkgoz Ö., Dalkılıç A. S., Wongwises S.
Kerntechnik, vol.88, no.1, pp.100-113, 2023 (SCI-Expanded)
- VIII. **Prediction of heat transfer characteristics in a microchannel with vortex generators by machine learning**
Gönül A., Çolak A. B., Kayaci N., Okbaz A., Dalkiliç A. S.
Kerntechnik, vol.88, no.1, pp.80-99, 2023 (SCI-Expanded)
- IX. **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., Dalkiliç A. S., Alrubaie A. J., Jaber M. M.
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.146, no.2, pp.1-10, 2023 (SCI-Expanded)
- X. **A 3-D FSI SIMULATION FOR THE PERFORMANCE PREDICTION AND VALVE DYNAMIC ANALYSIS OF A HERMETIC RECIPROCATING COMPRESSOR**
Bacak A., Pınarbaşı A., Dalkiliç A. S.
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.146, no.2, pp.1-15, 2023 (SCI-Expanded)
- XI. **A new distributor selection methodology for refrigeration cycles**
Hacimusalar H. A., Özdemir M. R., Sökücü M. H., Dalkiliç A. S.

INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.29, no.1/2, pp.16-29, 2023 (SCI-Expanded)

- XII. **Estimation of heat transfer parameters of shell and helically coiled tube heat exchangers by machine learning**
Çolak A. B., Akgul D., Mercan H., Dalkılıç A. S., Wongwises S.
CASE STUDIES IN THERMAL ENGINEERING, vol.42, pp.1-12, 2023 (SCI-Expanded)
- XIII. **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, 2023 (SCI-Expanded)
- XIV. **Experimental investigation of selective catalytic reduction system on CI engine for NO_x reduction using urea and animal urine as catalyst**
Dalkılıç A. S., Wongwises S., Karagöz Y., Rajurkar S., Awari G., Katare P., Tirpude R. B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.30, no.1, pp.17-32, 2023 (SCI-Expanded)
- XV. **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., Dalkilic A. S., Baskaya S.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.183, no.January, pp.1-12, 2023 (SCI-Expanded)
- XVI. **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., Dalkilic A. S., Baskaya S.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, no.1, pp.1-10, 2023 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **Numerical determination of condensation pressure drop of various refrigerants in smooth and micro-fin tubes via ANN method**
Colak A. B., CELEN A., DALKILIÇ A. S.

- KERNTECHNIK, vol.87, no.5, pp.506-519, 2022 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Measurement of thermal conductivity and viscosity of ZnO-SiO₂ 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)
- XXX. **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)
- XXXI. **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)
- XXXII. **An experimental study on the heat transfer characteristics over a radiant cooled wall exposed to mixed and forced convection driven by displacement ventilation**
Camcı M., Karakoyun Y., Açıkgöz Ö., Dalkilic A. S.
International Communications in Heat and Mass Transfer, vol.135, 2022 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **Air-side performance of embedded and welded spiral fin and tube heat exchangers**
Kiatpachai P., Kaewkamrop T., Mesgarpour M., Ahn H. S., DALKILIÇ A. S., Mahian O., Wongwises S.
Case Studies in Thermal Engineering, vol.30, 2022 (SCI-Expanded)
- XXXVIII. **CFD analyses on the thermal comfort conditions of a cooled room: a case study**
Ozsagioglu S., Camcı M., Taner T., Açıkgöz Ö., Dalkılıç A. S., Wongwises S.

- Journal of Thermal Analysis and Calorimetry, vol.147, no.3, pp.2615-2639, 2022 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **Heat transfer and pressure drop characteristics of two phase flow in helical coils**
Onal B. S., Kırkar Ş. M., Akgul D., Celen A., Açıkgöz Ö., Dalkılıç A. S., Kazi S. N., Wongwises S.
Thermal Science and Engineering Progress, vol.27, 2022 (SCI-Expanded)
- XLIII. **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)
- XLIV. **AN EXPERIMENTAL STUDY OF SIO₂-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)
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XC. **The design of a yacht-Type chiller**

KAYKI M., Celen A., Kayaci N., DALKILIÇ A. S., WONGWISES S.

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- XCI. A critical review on the numerical methods of two phase flows**
BALCILAR M., DALKILIÇ A. S., CELEN A., KAYACI N., Wongwises S.
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- XCII. 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.
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- XCIII. A yacht-type chiller design**
Kayk M., KAYACI N., CELEN A., DALKILIÇ A. S., Wongwises S.
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- XCIV. Critical review on the determination of physical properties of nanofluids for the convective heat transfer in tubes**
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- XCIV. 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.
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- XCVI. Comparison of various alternative refrigerants for vapour compression refrigeration systems**
DALKILIÇ A. S., WONGWISES S.
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- XCVII. 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.
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- XCVIII. Prediction of two-phase friction factor of refrigerants inside a horizontal tube using CFD analysis for the homogeneous condensation flow**
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- C. Determination of condensation heat transfer characteristics of R134a by means of artificial intelligence method**
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- CI. Experimental study on the flow regime identification in the case of co-current condensation of R134a in a vertical smooth tube**
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- CII. A numerical investigation of nanofluids forced convection flow in a horizontal smooth tube**
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- CIII. **Determination of condensation heat transfer characteristics of R134a by means of artificial intelligence method**
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- CIV. **Comparison of condensation frictional pressure drop models and correlations during annular flow of R134a inside a vertical tube**
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- CV. **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**
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- CVI. **Experimental research on the comparison of LDA and PIV measuring systems for the determination of the air velocity inside a square channel**
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- CVII. **Experimental apparatus for the determination of nusselt and rayleigh numbers during natural convection from a heated horizontal cylinder**
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- CX. **Experimental Apparatus for the determination of Nusselt and Rayleigh numbers during natural convection from heated horizontal cylinders**
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- CXVI. **Yüzme Havuzlarında Boru Çapı Optimizasyonu**
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- CXVII. **Yüzme Havuzlarında Boru Optimizasyonu**
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- DALKILIÇ A. S., GÖNÜL A., Kesen A., CELEN A., AKYOL E., KIRBOĞA OKUMUŞ S., WONGWİSES S., Demirel P., Akgül D., MERCAN H., et al., Project Supported by Higher Education Institutions, Tek ve İki Fazlı Akışlarda Üç Borulu Isı Değiştiricilerinde Isı Transferi Karakteristiklerinin Deneysel Olarak Araştırılması, 2021 - Continues
- Mercan H., DALKILIÇ A. S., Project Supported by Higher Education Institutions, Hibrit Nanoakışkanlı İki Borulu İç Yüzeysel 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 performansına etkisinin sayısal olarak incelenmesi, 2021 - 2022
- ÖZKAYA B., AÇIKGÖZ Ö., BALIK D., DALKILIÇ A. S., BİLGİLİ M. S., KAVANOZ S., ACAR VURAL R., TOPUZOĞULLARI 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 Yüzeysel Isıtma Sistemlerinde Havalandırmanın Isı Geçişi Karakteristiklerine Etkisinin İncelenmesi, 2019 - 2021
- Açıköz Ö., Dalkılıç A. S., Karakoyun Y., Camcı M., Project Supported by Higher Education Institutions, Radyant Yüzeysel Isıtma Sistemlerinde Havalandırmanın Isı Geçişi Karakteristiklerine Etkisinin İncelenmesi, 2019 - 2021
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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

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

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

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Activities in Scientific Journals

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

Journal of Thermal Engineering, First Editor, 2014 - Continues

Scientific Refereeing

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

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

Viscosity of ethylene glycol and water mixture based nanofluid containing low volume concentrations of Al₂O₃ and CuO nanoparticles/Nanoscience and Nanotechnology Letters, SCI Journal, October 2012

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

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

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

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

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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

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

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

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

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

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

Dalkılıç A. S., 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: 319

Citation (WoS): 3544

Citation (Scopus): 4070

H-Index (WoS): 33

H-Index (Scopus): 34

Congress and Symposium Activities

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

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

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 Istanbul 2018, Working Group, İstanbul, Turkey, 2018

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

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

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

2017

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

International Conference on Thermal and Fluid Engineering: Thailand 2017, Working Group, Phuket, Thailand, 2017

International Conference on Energy and Thermal Engineering: Istanbul 2017, Working Group, İstanbul, Turkey, 2017

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

Istanbul International Conference on Progress in Applied Sciences , Working Group, İstanbul, Turkey, 2017

Conference of the International Journal of Arts & Sciences , Working Group, Barcelona, Spain, 2016

International Conference on Advances in Automotive Technologies 2016 - AAT2016, Working Group, İstanbul, Turkey, 2016

International Conference on Mechanical and Production Engineering, Working Group, Rayong, Thailand, 2016

2ND International Conference on Advances in Mechanical Engineering Istanbul 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

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