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International Researcher IDs

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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

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
<u>Past</u>	1735.15*	3/169	4/263	3/52	4/70
<u>2014</u>	347.42*	1/145	1/227	1/50	1/69
<u>2015</u>	349.45*	1/143	1/229	1/49	1/72
<u>2016</u>	573.99*	1/141	1/225	1/49	1/72
<u>2017</u>	758.55*	1/139	1/220	1/49	1/72
<u>2018</u>	684.78*	2/140	2/222	2/49	2/73
<u>2019</u>	733.53*	2/140	2/222	2/49	2/73
<u>2020</u>	866.00*	2/142	2/229	2/50	2/74
<u>2021</u>	899.24*	2/144	2/234	2/50	2/74
<u>2022</u>	1132.60*	1/146	1/243	1/50	1/74
<u>2023</u>	246.76*	2/146	4/244	2/50	4/74
<u>2024</u>	322.49*	3/147	3/246	2/50	2/74
<u>TOTAL</u>	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
Past	1735.15*	3/169	4/263	3/52	4/70
2014	347.42*	1/145	1/227	1/50	1/69
2015	349.45*	1/143	1/229	1/49	1/72
2016	573.99*	1/141	1/225	1/49	1/72
2017	758.55*	1/139	1/220	1/49	1/72
2018	684.78*	2/140	2/222	2/49	2/73
2019	733.53*	2/140	2/222	2/49	2/73
2020	866.00*	2/142	2/229	2/50	2/74
2021	899.24*	2/144	2/234	2/50	2/74
2022	1132.60*	1/146	1/243	1/50	1/74
2023	246.76*	2/146	4/244	2/50	4/74
2024	322.49*	3/147	3/246	2/50	2/74
TOTAL	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

Postgraduate

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2019 - 2020

İleri Termodinamik, Postgraduate, 2019 - 2020

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

Konveksiyon ve Radyasyonda Özel Konular, Postgraduate, 2012 - 2013

Undergraduate

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

Soğutma ve İklimlendirme Esasları, Undergraduate, 2018 - 2019

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

Akışkanlar Mekaniği 1, Undergraduate, 2019 - 2020

Thermodynamics, Undergraduate, 2018 - 2019

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

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

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

Supervised Theses

- Dalkılıç A. S., Gönül A., INVESTIGATION OF THE MIXING OF CROSS FLOW WITH VARIOUS GEOMETRIES WITH JET FLOW, Postgraduate, A.EREN(Student), 2025
- Dalkılıç A. S., Doctorate, S.BÜŞRA(Student), 2024
- Dalkılıç A. S., Sözbir N., Yer Sabit Uydulara 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
- Dalkılıç A. S., Boğoçlu M. E., Development Of A Predictive Model Using Fully Connected Neural Networks İn 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 değıştiricilerinin 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., 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., Yapay Sinir Ağları Yöntemiyle Doğalgaz Şehir Giriş İstasyonlarının Projelendirilmesi, Postgraduate, V.BALIKÇI(Student), 2019
- Dalkılıç A. S., Borulu Tip Isı Değıştiricilerinde Laminar Akışta Nümerik Olarak Isı Geçişi 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 değıştiricilerin optimizasyonu, Postgraduate, G.ÖZÇELİK(Student), 2018
- Dalkılıç A. S., Mikrokanallı ısı değıştiricilerinde 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 new hybrid CFD approach to study the impact of forced convection on radiant cooled wall with baseboard diffuser including various vane angles**
Caliskan Temiz M., Bacak A., Camci M., Karakoyun Y., Acikgoz O., Dalkılıç A. S.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.213, no.7, pp.1-24, 2025 (SCI-Expanded)
- II. **Development of a machine-learning-based performance prediction model for indirect regenerative evaporative cooling applications supported by experimental and numerical techniques**
Çolak A. B., Inanli M., Aydin D., Rezaei M., Calisir T., Dalkılıç A. S., Baskaya S.
Journal of Thermal Analysis and Calorimetry, vol.150, no.1, pp.1-24, 2025 (SCI-Expanded)
- III. **Mechanical performance and ANN-based prediction of Co-Cr dental alloys with gyroid cellular structures produced by LPBF technology**
Çalışkan C. I., Şahin M., Koca A., Tarakçı G., Okbaz A., Dalkılıç A. S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, no.1, pp.1-10, 2025 (SCI-Expanded)
- IV. **The effect of the important variables for the design novel milli-channel cooling system on the evaporator performance by the Taguchi method**
Koca A., Mustafaoglu M., Karakoyun Y., Dalkılıç A. S.
Journal of Thermal Analysis and Calorimetry, vol.150, no.1, pp.1-23, 2025 (SCI-Expanded)
- V. **A comparison of heating and cooling systems having radiant and ventilation systems regarding thermal comfort**
Rahmanparast A., Bacak A., Camci M., Karakoyun Y., Acikgoz Ö., Dalkılıç A. S.
Journal of Thermal Analysis and Calorimetry, vol.149, no.23, pp.13551-13579, 2024 (SCI-Expanded)
- VI. **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.15121-15141, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Effect of particle size on SiO₂ 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)
- XI. **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)
- XII. **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/WÄERME- UND STOFFUEBERTRAGUNG, vol.60, no.7, pp.1393-1411, 2024 (SCI-Expanded)
- XIII. **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)

- XIV. **An experimental study on the determination of a hermetic reciprocating compressor's discharge and suction losses**
Bacak A., Pınarbaşı A., Dalkılıç 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)
- XV. **Determination of dynamic viscosity and stability for single and hybrid nanofluids of SiO₂, TiO₂, 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.12, pp.6715-6735, 2024 (SCI-Expanded)
- XVI. **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.60, pp.1-24, 2024 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **Investigation on the effect of surfactants on the viscosity of graphite-water-based nanofluids**
Yalçın G., Huminic G., Huminic A., Panchal H., Dalkılıç A. S.
JOURNAL OF MOLECULAR LIQUIDS, vol.3, pp.1-15, 2024 (SCI-Expanded)
- XX. **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)
- XXI. **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.1-12, 2024 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- 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 dioksitin 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. **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)
- XXVI. **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)

- XXVII. **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)
- XXVIII. **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.405-415, 2024 (SCI-Expanded)
- XXIX. **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)
- XXX. **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)
- XXXI. **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., Dalkiliç A. S.
International Journal of Thermal Sciences, vol.191, 2023 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **Case studies on local mixed convection heat transfer coefficients along a radiant heated wall subjected to displacement ventilation**
Camci M., Karakoyun Y., Açıkğöz Ö., Dalkılıç A. S.
Journal of Thermal Analysis and Calorimetry, vol.148, no.15, pp.7845-7854, 2023 (SCI-Expanded)
- XXXIV. **Performance of refrigerants employed in rooftop air-conditioners**
Suerdem K., Taner T., Açıkğöz Ö., Dalkilic A. S., Panchal H.
JOURNAL OF BUILDING ENGINEERING, vol.70, pp.1-19, 2023 (SCI-Expanded)
- XXXV. **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)
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Dalkılıç A. S., Koyun A., Teke İ., Temir G., Çebi A., Wongwises S., Celen A., Project Supported by Higher Education Institutions, Tek Fazlı Akışta İç Yüzeyle İyileştirilmiş Borularda Isı Transferi Karakteristiklerinin Deneysel ve Nümerik Olarak İncelenmesi, 2013 - 2017

Kürekci 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

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

Journal of Thermal Engineering, First Editor, 2014 - Continues

Peer Reviews in Scientific Publications

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

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

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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

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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

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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: 356

Citation (WoS): 4776

Citation (Scopus): 5471

H-Index (WoS): 38

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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., Bentham Ambassador , Bentham Science Publishers , July 2019
Dalkılıç A. S., World Ranking of Top 2% Scientists , Stanford University, 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 İn Mechanical Engineering , August 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., Kiatpachai P., Pikulkajorn S., Mahian O., Grand Prize, 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., 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., 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 TIO2 NANOFUIDS IN A DOUBLE-TUBE COUNTER FLOW HEAT EXCHANGER, Elsevier, January 2013

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

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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 TIO2 NANOFUIDS 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 TIO2 NANOFUIDS 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., 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

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

Non Academic Experience

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

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

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