

Prof. ADNAN SÖZEN

Personal Information

Office Phone: [+90 312 202 8607](tel:+903122028607)

Fax Phone: [+90 312 202 8947](tel:+903122028947)

Email: asozen@gazi.edu.tr

Web: <http://avesis.gazi.edu.tr/asozen>

Address: Gazi Üniversitesi Teknoloji Fakültesi Enerji Sistemleri Mühendisliği 06500 Beşevler Ankara

International Researcher IDs

ScholarID: 4a9EiF4AAAAJ

ORCID: 0000-0002-8373-2674

Publons / Web Of Science ResearcherID: G-1409-2018

ScopusID: 7004274512

Yoksis Researcher ID: 1600

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1990 - 1994

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1986 - 1989

Undergraduate, Akdeniz University, Isparta Mühendislik Fakültesi, Makine Mühendisliği Pr., Turkey 1981 - 1986

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, 80UC-20TaC yakıtlı uzayda kullanılacak bir hibrit termiyonik nükleer güç reaktörünün kontrol mekanizmasının nötronik analizi, Gazi University, Fen Bilimleri Enstitüsü, 1994

Postgraduate, Amonyak/su ile çalışan soğurmalı soğutma sisteminin termodinamik analizi ve ısı süreçlerindeki tersinmezliklerin belirlenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1989

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2011 - Continues

Associate Professor, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2005 - 2011

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 1995 - 2005

Assistant Professor, Michigan State University, Engineering, Mechanical Engineering, 2003 - 2003

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 1986 - 1994

Academic and Administrative Experience

Academic Performance D. Board Member, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - Continues

Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - Continues

Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2020 - 2021

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2015 - 2021

Ethics Committee Member, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2020

Ethics Committee Member, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2019

Rektörlük Stratejik Plan Komisyonu Üyesi, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2019

Fakülte Yönetim Kurulu Üyesi, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2019

University Executive Board Member, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2019

Member of the Senate, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2017 - 2019

Gazi University, Teknoloji Fakültesi, 2017 - 2019

Gazi University, Endüstriyel Sanatlar Eğitim Fakültesi, 2017 - 2019

Gazi University, Teknik Eğitim Fakültesi, 2017 - 2019

Soruşturma Komisyonu Başkanı, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2018 - 2018

Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, 2016 - 2017

Fakülte Kurulu Üyesi, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2006 - 2010

Secretary of the Institute, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 1998 - 2010

Deputy Head of Department, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2003 - 2006

Assistant Director of the Institute, Gazi University, Fen Bilimleri Enstitüsü, 1995 - 1996

Courses

Akışkanlar Mekaniği, Undergraduate, 2020 - 2021, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

Enerji Ekonomisi ve Politikaları, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Optimizasyon Teknikleri, Postgraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

MÜHENDİSLİK MATEMATİĞİ, Postgraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007

Advising Theses

Sözen A., Determining the optimum photovoltaic installation angle for provinces in Turkey, Postgraduate, S.KAZEMZADEHMARAND(Student), 2023

Sözen A., Comparison of the energy performance of residences in Turkey by provinces, Postgraduate, K.Erdem(Student), 2022

Sözen A., NUMERICAL AND EXPERIMENTAL ANALYSIS OF HELICALLY-COILED HEAT EXCHANGERS, Doctorate, A.Doğuş(Student), 2022

Sözen A., DESIGN and ANALYSIS OF HYDROGEN PRODUCTION COMBINED SYSTEM FROM HYDROGEN SULFIDE WITH RENEWABLE ENERGY SOURCE, Doctorate, K.GÖK(Student), 2022

Sözen A., Within the scope of this work, Shell and Helically Coiled Tube Heat Exchangers (SHCTHEX) with different specifications were designed using the same basic geometric dimensions, then thermal performance analyses of these designs were carried out by using the Computational Fluid Dynamics (CFD) approach and the equations specific to the heat exchangers. Also, the analyses were repeated for different performance enhancement techniques and the results

were compared with the conventional design. First, the performance of two heat exchangers designed with the same basic dimensions, one with horizontal; one with vertical orientation, were examined and these two designs were compared with each other. Horizontal SHCTHEX evaluated in the thesis, outperformed the vertical design. Then, the effect of the use of Al₂O₃-TiO₂/water nanofluid in the designed horizontal and vertical heat exchangers was analyzed. That fluid is a hybrid nanofluid and has been little studied in the literature and not studied in SHCTHEXs. The results obtained were compared with the results obtained using water and it was calculated that there was an 8-8.5% improvement in the average heat transfer amounts with the use of hybrid nanofluid. In the next step, thermal performance analyzes of an original design with the same basic dimensions, but with a different inlet position and body geometry, were carried out. In the last section, the thermal performance of the original design obtained by placing baffles consisting of rings and discs in the horizontal SHCTHEX, which is seen to have better performance, was examined. The designed baffled SHCTHEX was also manufactured in laboratory environment and examined experimentally. Experimental results were close to the simulation results. It has been calculated that there is a 7.1% increase in the average heat transfer amounts with the baffled heat exchanger design compared to the horizontal heat exchanger.

Science Code : 91412 Key Words : Heat Exchangers, Heat Transfer, CFD, simulation, experiment, Doctorate, A.GÜNGÖR(Student), 2022

Sözen A., kWh CONSUMPTION METHODOLOGY FOR ENERGY POVERTY DIAGNOSIS, Doctorate, T.EMRE(Student), 2022

Sözen A., Keçebaş ., THERMODYNAMIC ANALYSIS OF SPINELOXIDE NANOFLUID WITHOUT PRE-COOLED DIFFUSION ABSORPTION REFRIGERATION SYSTEM, Doctorate, E.Yağız(Student), 2021

SÖZEN A., Turkey's Energy And Environmental Total Factor Productivity, Postgraduate, B.Erbil(Student), 2021

Sözen A., Effectiveness Analysis Of Energy Efficiency In Buildings, Postgraduate, G.Demirsoy(Student), 2021

Sözen A., TÜRKİYE'NİN ENERJİ VE ÇEVRE TOPLAM FAKTÖR VERİMLİLİĞİ, Postgraduate, B.ERBİL(Student), 2021

SÖZEN A., Use Of Nanofluid In Heat Recovery Units, Doctorate, İ.AYTAÇ(Student), 2020

SÖZEN A., Nanoakışkanların kaynama-yoğuşma ısı transferi karakteristiklerinin deneysel ve sayısal olarak incelenmesi, Doctorate, E.ÇİFTÇİ(Student), 2020

SÖZEN A., Heat Pipe Evacuated Tubular Solar Collector Performance Improvement: Application Of Nanofluid, Doctorate, U.ÖNDER(Student), 2019

SÖZEN A., Use Of Indicators In Trade For The Products Of Energy And Precious Metal, Postgraduate, S.SADİ(Student), 2019

SÖZEN A., Experimental And Numerical Analysis Of Plate Heat Exchangers, Doctorate, A.KHANLARI(Student), 2018

SÖZEN A., Effects Of Nuclear Power Plants On Electricity Generation Planning, Postgraduate, G.KOCA(Student), 2018

SÖZEN A., Renewable Generation Effect On Electricity Market And Development Of Energy Model For Sustainable Support Mechanism, Doctorate, M.MUSTAFA(Student), 2018

SÖZEN A., The Impacts Of Fluids On Performance Containing Nanosized Metal Oxide In Solar Collectors, Doctorate, F.KILIÇ(Student), 2017

SÖZEN A., HATİPOĞLU S., Kent içi trafik sorunları ve çözümleri için yeni yaklaşımlar/UTY stratejileri: Priştine örneği, Doctorate, B.KIZOLLI(Student), 2017

Sözen A., New Approaches For Urban Traffic Problems And Solutions / Tdm Strategies: The Case Study Of Pristina, Doctorate, B.Kizolli(Student), 2017

SÖZEN A., The Comparison Of Turkey'S Energy Performance With Oecd And Brics Countries, Doctorate, F.KARIK(Student), 2017

SÖZEN A., Determination of Performance of The Heat Wheel Via Cfd, Postgraduate, E.ÇİFTÇİ(Student), 2016

Sözen A., Natural Gas Storage In Underground Salt Domes With Solution Mining, Postgraduate, G.Mücahit(Student), 2016

SÖZEN A., Çözelti madenciliği ile yer altı tuz domlarında doğal gaz depolama, Postgraduate, G.MÜCAHİT(Student), 2016

SÖZEN A., GÜRÜ M., The Influence Of Absorbents On The Cooling Performance Of Diffusion Absorption Mini-Refrigeration Systems, Postgraduate, S.ÖZTAŞ(Student), 2015

SÖZEN A., Acil durum araçlarının yeterliliği, trafikte davranış biçimleri ve bu araçlardan beklenen hizmet kalitesi, Postgraduate, İ.BÜTÜN(Student), 2015

SÖZEN A., Effect on traffic solution of traffic direction signs in Ankara, Postgraduate, İ.SAĞIR(Student), 2014

SÖZEN A., Eş merkezli iç içe borulu paralel ve karşıt akışlı ısı değiştiricilerde alümina nanoakışkan kullanılarak ısı performansın artırılması, Postgraduate, İ.AYTAÇ(Student), 2014

SÖZEN A., KURT M., The new decision making system in data envelopment analysis, Doctorate, A.MİRZAPOUR(Student),

2014

- SÖZEN A., Determination of the traffic development levels of provinces, Postgraduate, H.KUMCU(Student), 2014
- Sözen A., Yavuzcan H. G., Numerical analysis of the effects of francis turbine design and blade angle on the constructional turbine parameters, Doctorate, S.KEÇEL(Student), 2013
- SÖZEN A., Turkey's total factor productivity of CO2 emission, Postgraduate, G.ÜNAL(Student), 2012
- SÖZEN A., Risk management of Turkey's greenhouse gas emissions under the framework of kyoto protocol, Doctorate, Ö.SELVİTOP(Student), 2012
- SÖZEN A., Ankara'daki özel sürücü kurslarının performans değerlendirmesi, Postgraduate, M.ALPARSLAN(Student), 2011
- SÖZEN A., Total factor productivity of highway transportation system and analysis of the European union position, Doctorate, F.CİPİL(Student), 2011
- SÖZEN A., Hidroelektrik santrallerin toplam faktör verimliliği, Doctorate, C.KILINÇ(Student), 2011
- SÖZEN A., AB uyum sürecinde demiryolu göstergeleri bakımından Türkiye'nin konumunun çok değişkenli istatistiksel yöntemlerle incelenmesi, Doctorate, B.KURT(Student), 2010
- SÖZEN A., Termik santrallerin işletme, üretim ve çevresel etki performans skorları, Doctorate, A.ÖZDEMİR(Student), 2010
- Sözen A., TÜRKİYE ENERJİ SEKTÖRÜNDE TOPLAM FAKTÖR VERİMLİLİĞİ VE ULUSLAR ARASI KONUM ANALİZİ, Doctorate, F.Şinasi(Student), 2010
- SÖZEN A., Yayınımlı soğurmalı soğutma sistemi tasarımı, imali, deneysel ve teorik analizi ile performans iyileştirilmesi, Doctorate, E.ÖZBAŞ(Student), 2009
- YÜCESU H. S., SÖZEN A., Enerji kullanımının bölgesel ve sektörel dağılımının çok değişkenli istatistiksel analizi, Doctorate, M.TARIK(Student), 2008
- SÖZEN A., IMPACT OF DRIVER PERSONALITY ON PROBABILITY OF MAKING AN ACCIDENT IN TRAFFIC: A STATISTICAL ANALYSIS, Doctorate, C.HASANHANOĞLU(Student), 2008
- SÖZEN A., Zeki modeller kullanılarak enerji projeksiyonu ve çevresel (sera) etkilerinin belirlenmesi ve ekonomik göstergelerle ilişkilendirilmesi, Doctorate, H.ZAFER(Student), 2008
- SÖZEN A., Türkiye'de ulaşım göstergelerinin iller bazında çok değişkenli analiz teknikleri yardımı ile karşılaştırılması, Doctorate, M.DARÇIN(Student), 2006
- SÖZEN A., Karayollarında trafik kazalarının önlenmesi için geliştirilmiş araç teknolojilerinin incelenmesi, Postgraduate, M.ERDEM(Student), 2006
- SÖZEN A., Aşırı yüklenmiş ağır vasıtaların denetiminde kullanılan modern teknikler, Postgraduate, E.BÜYÜK(Student), 2006
- SÖZEN A., Avrupa Birliği ülkeleri ile Türkiye'nin trafik denetim stratejilerinin karşılaştırılması, Postgraduate, A.ÖZKARA(Student), 2005
- SÖZEN A., Türkiye'nin ulaştırma politikalarının Avrupa Birliği sürecine uyumu bakımından irdelenmesi, Doctorate, D.DOĞANER(Student), 2005
- SÖZEN A., Tehlike değerlendirme teknikleri ile Türkiye taş kömürü işletmelerinin kaza analizi, Postgraduate, M.SEVER(Student), 2005
- SÖZEN A., İstanbul Boğazı'ndaki deniz kazalarının seyir ve çevre güvenliği açısından analizi ve zararsız geçiş koşullarında değerlendirilmesi, Doctorate, N.JALE(Student), 2005
- SÖZEN A., Etkin trafik denetim stratejileri ve ülkemizde uygulama koşulları, Postgraduate, H.ALTINTAŞ(Student), 2005
- SÖZEN A., Alternatif çalışma alışkanlıkları ile çalışan ejektörlü-absorbsiyon soğutma sisteminin yapay sinir ağları kullanılarak termodinamik analizi, Doctorate, M.ÖZALP(Student), 2004
- SÖZEN A., Ankara ilinde bulunan köprülü kavşakların trafik kazalarını azaltma yönündeki etkileri, Postgraduate, İ.İÇER(Student), 2004
- SÖZEN A., Bir güneş kolektörünün yapay sinir ağları ile modellenmesi, Postgraduate, S.ÜNVAR(Student), 2004
- SÖZEN A., Güvenli sürüş için trafik denetimine yeni yaklaşımlar ve öneriler, Postgraduate, A.ZEYTİN(Student), 2004
- SÖZEN A., Şehir içi kavşaklarda meydana gelebilecek kazaların tahmini için bir model, Postgraduate, A.ERTUĞRUL(Student), 2004
- SÖZEN A., Uçak tasarımında aktif kontroller, Postgraduate, Ü.İSKENDER(Student), 2003
- SÖZEN A., Güneş potansiyelinin tahmininde yapay sinir ağlarının kullanılması, Postgraduate, E.GALİP(Student), 2003

SÖZEN A., Ağırlıklandırılmış ortalamalardan sapma tekniği ile kömür işletmelerinde meydana gelen kazaların tehlike değerlendirilmesi, Postgraduate, E.KARAKAYA(Student), 2002

SÖZEN A., Doğalgaz ile elektrik enerjisi üretimi ve ekonomik analizi, Postgraduate, K.KARAKAŞ(Student), 2002

SÖZEN A., Özel sürücü kurslarında verilen eğitimin trafik kazalarına etkisi, Postgraduate, M.TÜRKOĞLU(Student), 2002

SÖZEN A., Ozon tabakasına zarar vermeyen alternatif soğutucu akışkanları kullanan absorpsiyonlu soğutma sisteminin termodinamik analizi, Postgraduate, E.ÖZSOY(Student), 2002

SÖZEN A., Ankara'nın şehiriçi ulaşım sorunları ve çözümü için yeni yaklaşımlar, Postgraduate, M.ALBAYRAK(Student), 2002

SÖZEN A., İşletmelerde çevre ve zararlı atık yönetiminin kaza riskleri üzerindeki etkileri, Postgraduate, B.GÖREN(Student), 2001

SÖZEN A., Strateji, strateji oluşumu, stratejik yönetim ve trafikte strateji, Postgraduate, A.AKGÜN(Student), 2001

SÖZEN A., Ağırlıklandırılmış ortalamalardan sapma tekniğinin enerji santrallerindeki kazalara uygulanması, Postgraduate, N.KÜRŞAD(Student), 2001

SÖZEN A., Boğazlardaki deniz kazalarının tehlike değerlendirme teknikleri ile analizi, Postgraduate, M.ÖZTÜRK(Student), 2001

SÖZEN A., BORAN K., The Knowledge, attitude and behaviours of traffic polices about first aid in Ankara, Postgraduate, H.TUBA(Student), 2000

SÖZEN A., İş yerindeki stresin çalışanın performansına etkisi, Postgraduate, D.TEKSİN(Student), 2000

SÖZEN A., Türkiye'deki enerji santrallerinin çevre etkilerinin karşılaştırılması, Postgraduate, R.KURTOĞLU(Student), 2000

SÖZEN A., İmalat sistemlerindeki iş kazalarının tahmini için "ağırlıklandırılmış ortalamalardan sapma" tekniği, Doctorate, H.CEYLAN(Student), 2000

SÖZEN A., Bursa ve civarında çelik döküm yapan işyerlerindeki kazalar ve önleme tedbirleri, Postgraduate, B.PİŞKİN(Student), 1999

SÖZEN A., Hava araçlarındaki kazalara hata ağacı analizi yöntemi uygulanarak kaza nedenlerinin belirlenmesi, Doctorate, M.ÖZSU(Student), 1999

SÖZEN A., Enerji santrallerinin aynı seviyeye getirilmiş maliyet metodu ile karşılaştırılması, Postgraduate, O.YALCIN(Student), 1998

SÖZEN A., Çoklu döküman görüntü modeline dayalı kullanıcı ara birimi ve çizim uygulamaları geliştirme, Postgraduate, S.ERDEN(Student), 1998

SÖZEN A., Silah mühimmat ve araç sistemlerinin kaza nedenleri yönünden incelenmesi ve TAM-KAR sisteminde kaza nedenlerinin belirlenmesi, Doctorate, B.KARAN(Student), 1997

SÖZEN A., Farklı çalışma akışkanları kullanan absorpsiyonlu sıcaklık yükselteçlerinin termodinamik analizi, Postgraduate, M.ERDOĞAN(Student), 1997

SÖZEN A., Uzayda kullanılacak nükleer güç reaktörünün kontrol mekanizmasındaki sıcaklık dağılımının sonlu farklar metodu ile hesaplanması, Postgraduate, T.POLAT(Student), 1996

Jury Memberships

Award, Liselerarası Enerji Verimliliği Yarışması, Gazi University, September, 2023

Award, Sanayide Enerji Verimliliği Yarışması, Gazi University, May, 2023

Award, Liseler arası Enerji Verimliliği yarışması, Gazi University, September, 2022

Award, Sanayide Enerji Verimliliği Yarışması, Gazi University, May, 2022

Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, August, 2021

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Karabük Üniversitesi, July, 2021

Award, Proje Yarışması, Gazi University, June, 2021

Award, Proje Yarışması, Gazi University, June, 2021

Award, Gazi University, June, 2021

Committee Of Expert, Committee Of Expert, Gazi University, May, 2021

Committee Of Expert, Committee Of Expert, Gazi University, May, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Fırat Üniversitesi, January, 2021

Award, Proje Yarışması, Energy and Natural Resources Ministry, June, 2020
Award, Proje Yarışması, TÜBİTAK, June, 2020
Award, Proje Yarışması, Energy and Natural Resources Ministry, April, 2020
Associate Professor Exam, Associate Professor Exam, Gazi University, March, 2020
Associate Professor Exam, Associate Professor Exam, ÜAK, March, 2020
Associate Professor Exam, Associate Professor Exam, Gazi University, March, 2020
Associate Professor Exam, Associate Professor Exam, Gazi University, March, 2020
Associate Professor Exam, Associate Professor Exam, Gazi University, March, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, January, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, January, 2020
Competition, LİSE ÖĞRENCİLERİ ENERJİ VERİMLİLİĞİ YARIŞMASI, Energy and Natural Resources Ministry, May, 2019
Competition, SANAYİDE ENERJİ VERİMLİLİĞİ YARIŞMASI (SANVER), Energy and Natural Resources Ministry, March, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **IMPROVING THERMAL AND ELECTRICITY GENERATION PERFORMANCE OF PHOTOVOLTAIC/THERMAL (PV/T) SYSTEMS USING HYBRID NANOFLUID**
Sözen A.
HEAT TRANSFER RESEARCH, vol.55, no.8, pp.1-13, 2024 (SCI-Expanded)
- II. **IMPROVING THERMAL AND ELECTRICITY GENERATION PERFORMANCE OF PHOTOVOLTAIC/THERMAL (PV/T) SYSTEMS USING HYBRID NANOFLUID**
Swese E. E. H. O., SÖZEN A., Rezaeizadeh R., Hancerliogullari A., Aytac I., VARIYENLİ H. İ., Cakir M. T.
HEAT TRANSFER RESEARCH, vol.55, no.8, pp.1-13, 2024 (SCI-Expanded)
- III. **CFD analysis and experimental investigation to determine the flow characteristics around NACA 4412 airfoil blades at different wind speeds and blade angles**
Afshari F., Khanlari A., SÖZEN A., Tuncer A. D., Ates I., Şahin B.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.237, no.5, pp.1915-1925, 2023 (SCI-Expanded)
- IV. **AN EXPERIMENTAL INVESTIGATION TO PREDICT OPTIMUM CHARGE OF A HEAT PUMP SYSTEM**
Afshari F., Khanlari A., Tuncer A. D., Soezen A.
HEAT TRANSFER RESEARCH, vol.54, no.5, pp.1-13, 2023 (SCI-Expanded)
- V. **EXPERIMENTAL STUDY ON IMPROVING HEAT TRANSFER ABILITY OF A HEAT PIPE UTILIZING IRON OXIDE-FERRIC OXIDE HYBRID AND NICKEL FERRITE MONO-MAGNETIC NANOFLUIDS**
Babat R. A. A., Soezen A.
HEAT TRANSFER RESEARCH, vol.54, no.6, pp.1-19, 2023 (SCI-Expanded)
- VI. **Upgrading the performance of shell and helically coiled heat exchangers with new flow path by using TiO₂/water and CuO-TiO₂/water nanofluids**
Tuncer A. D., Khanlari A., SÖZEN A., Gurbuz E. Y., VARIYENLİ H. İ.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.183, 2023 (SCI-Expanded)
- VII. **EVALUATION OF A NOVEL TWO-PHASE CLOSED THERMOSYPHON SYSTEM UTILIZING NiFe₂O₄/DW, Fe₃O₄/DW, Fe₂O₃/DW MAGNETIC NANOFLUIDS**
Babat R. A. A., SÖZEN A., Cakir M. T.
HEAT TRANSFER RESEARCH, no.12, pp.15-37, 2023 (SCI-Expanded)
- VIII. **Experimental study on the utilization of magnetic nanofluids in an air-to-air heat pipe heat exchanger**
Babat R. A. A., Martin K., ÇİFTÇİ E., SÖZEN A.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.210, no.5, pp.687-697, 2023 (SCI-Expanded)
- IX. **EVALUATION OF A NOVEL TWO-PHASE CLOSED THERMOSYPHON SYSTEM UTILIZING NiFe₂O₄/DW,**

Fe₃O₄/DW, Fe₂O₃/DW MAGNETIC NANOFLUIDS

Babat R. A. A., Sözen A., Çakır M. T.

Heat Transfer Research, vol.54, no.12, pp.15-37, 2023 (SCI-Expanded)

- X. **Experimental and numerical analysis of a grooved hybrid photovoltaic-thermal solar drying system**
Tuncer A. D., Khanlari A., Afshari F., Sözen A., Çiftçi E., Kusun B., Sahinkesen I.
APPLIED THERMAL ENGINEERING, vol.218, 2023 (SCI-Expanded)
- XI. **Numerical and experimental study on thermal performance of a novel shell and helically coiled tube heat exchanger design with integrated rings and discs**
Gungor A., Khanlari A., SÖZEN A., VARIYENLİ H. İ.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.182, 2022 (SCI-Expanded)
- XII. **Enhancement of Heat Transfer Performance of a Heat Pipe by Using Calcium Magnesium Carbonate-Ethylene Glycol/Water Nanofluid with Sodium Dodecylbenzene Sulfonate**
Aydin D. Y., Gürü M., Sözen A.
PERIODICA POLYTECHNICA-CHEMICAL ENGINEERING, vol.66, pp.609-616, 2022 (SCI-Expanded)
- XIII. **Numerical and experimental investigation of a solar absorber extension tube with turbulators for upgrading the performance of a solar dryer**
Khanlari A., Afshari F., SÖZEN A., Tuncer A. D., Kusun B.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.32, pp.3104-3131, 2022 (SCI-Expanded)
- XIV. **Exergy and thermoeconomic analyses of the diffusion absorption refrigeration system with various nanoparticles and their different ratios as work fluid**
Gurbuz E. Y., KEÇEBAŞ A., SÖZEN A.
ENERGY, vol.248, 2022 (SCI-Expanded)
- XV. **Experimental and numerical investigation of diffusion absorption refrigeration system working with ZnO/Al₂O₃ and TiO₂ nanoparticles added ammonia/water nanofluid**
Gurbuz E. Y., SÖZEN A., KEÇEBAŞ A., ÖZBAŞ E.
EXPERIMENTAL HEAT TRANSFER, vol.35, no.3, pp.197-222, 2022 (SCI-Expanded)
- XVI. **Energy and exergy analysis of a vertical solar air heater with nano-enhanced absorber coating and perforated baffles**
Khanlari A., Tuncer A. D., Sözen A., Aytaç İ., Çiftçi E., Variyenli H. İ.
RENEWABLE ENERGY, vol.187, pp.586-602, 2022 (SCI-Expanded)
- XVII. **A detailed investigation of the temperature-controlled fluidized bed solar dryer: A numerical, experimental, and modeling study**
GÜREL A. E., Agbulut U., Ergun A., Ceylan I., SÖZEN A., Tuncer A. D., Khanlari A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.49, 2022 (SCI-Expanded)
- XVIII. **A comprehensive survey on utilization of hybrid nanofluid in plate heat exchanger with various number of plates**
Afshari F., Tuncer A. D., Sözen A., Variyenli H. İ., Khanlari A., Gurbuz E. Y.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.32, no.1, pp.241-264, 2022 (SCI-Expanded)
- XIX. **NUMERICAL INVESTIGATION OF THERMAL PERFORMANCE ENHANCEMENT POTENTIAL OF USING Al₂O₃-TiO₂/WATER HYBRID NANOFLUID IN SHELL AND HELICALLY COILED HEAT EXCHANGERS**
Gungor A., SÖZEN A., Khanlari A.
HEAT TRANSFER RESEARCH, vol.53, no.12, pp.37-54, 2022 (SCI-Expanded)
- XX. **SEASONAL ENERGY-EXERGY ANALYSIS OF A NEW FOLDABLE PHOTOVOLTAIC-THERMAL AIR COLLECTOR: AN EXPERIMENTAL AND NUMERICAL STUDY**
Tuncer A. D., Khanlari A., Sozen A.
HEAT TRANSFER RESEARCH, vol.53, no.14, pp.25-53, 2022 (SCI-Expanded)
- XXI. **Numerical and experimental analysis of parallel-pass forced convection solar air heating wall with different plenum and absorber configurations**
Khanlari A., Sözen A., Afshari F., Tuncer A. D., Agbulut U., Aytaç Z.

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.32, no.3, pp.978-1001, 2022 (SCI-Expanded)

- XXII. **PASSIVE THERMAL MANAGEMENT OF PHOTOVOLTAIC PANEL BY USING PHASE CHANGE MATERIAL-FILLED ALUMINUM CANS: AN EXPERIMENTAL STUDY**
Tuncer A. D., Khanlari A., Aytac I., Çiftçi E., Sözen A., Variyenli H. İ.
HEAT TRANSFER RESEARCH, vol.53, no.5, pp.73-86, 2022 (SCI-Expanded)
- XXIII. **IMPROVING THE THERMAL PERFORMANCE OF CONCENTRIC-TUBE HEAT EXCHANGERS USING MAGNETIC NANOFLUIDS**
Ahmed Adeeb Babat R., SÖZEN A., MARTİN K., AYTAÇ YILMAZ Z., VARIYENLİ H. İ.
HEAT TRANSFER RESEARCH, vol.53, no.15, pp.17-38, 2022 (SCI-Expanded)
- XXIV. **Energy and exergy analysis of a photovoltaic thermal (PVT) system used in solar dryer: A numerical and experimental investigation**
ÇİFTÇİ E., Khanlari A., SÖZEN A., Aytac İ., Tuncer A. D.
RENEWABLE ENERGY, vol.180, pp.410-423, 2021 (SCI-Expanded)
- XXV. **Heat transfer enhancement of finned shell and tube heat exchanger using Fe₂O₃/water nanofluid**
Afshari F., SÖZEN A., Khanlari A., Tuncer A. D.
JOURNAL OF CENTRAL SOUTH UNIVERSITY, vol.28, no.11, pp.3297-3309, 2021 (SCI-Expanded)
- XXVI. **Experimental investigation of effect of refrigerant gases, compressor lubricant and operating conditions on performance of a heat pump**
Afshari F., SÖZEN A., Khanlari A., Tuncer A. D., Ali H. M.
JOURNAL OF CENTRAL SOUTH UNIVERSITY, vol.28, no.11, pp.3556-3568, 2021 (SCI-Expanded)
- XXVII. **Enhancing the thermal performance of diffusion absorption refrigeration system by using magnesium aluminate spinel oxide compound nanoparticles: an experimental investigation**
Sözen A., Keçebaş A., Gurbuz E. Y.
HEAT AND MASS TRANSFER, vol.57, no.10, pp.1583-1592, 2021 (SCI-Expanded)
- XXVIII. **Experimental and numerical analysis of a compact indirect solar dehumidification system**
Afshari F., Tuncer A. D., SÖZEN A., ÇİFTÇİ E., Khanlari A.
SOLAR ENERGY, vol.226, pp.72-84, 2021 (SCI-Expanded)
- XXIX. **Energy-exergy and sustainability analysis of a PV-driven quadruple- flow solar drying system**
Khanlari A., SÖZEN A., Afshari F., Tuncer A. D.
RENEWABLE ENERGY, vol.175, pp.1151-1166, 2021 (SCI-Expanded)
- XXX. **Dehumidification of sewage sludge using quonset solar tunnel dryer: An experimental and numerical approach**
Afshari F., Khanlari A., Tuncer A. D., Sözen A., Sahinkesen I., Di Nicola G.
RENEWABLE ENERGY, vol.171, pp.784-798, 2021 (SCI-Expanded)
- XXXI. **Improvement of Heat Pipe Solar Collector Thermal Efficiency Using Al₂O₃/Water and TiO₂/Water Nanofluids**
ÜNVAR S., MENLİK T., SÖZEN A., Ali H. M.
INTERNATIONAL JOURNAL OF PHOTOENERGY, vol.2021, 2021 (SCI-Expanded)
- XXXII. **Upgrading the performance of a new shell and helically coiled heat exchanger by using longitudinal fins**
Tuncer A. D., Sözen A., Khanlari A., Gurbuz E. Y., Variyenli H. İ.
APPLIED THERMAL ENGINEERING, vol.191, 2021 (SCI-Expanded)
- XXXIII. **The Impacts of Nanoparticle Concentration and Surfactant Type on Thermal Performance of A Thermosyphon Heat Pipe Working With Bauxite Nanofluid**
Yilmaz Aydin D., ÇİFTÇİ E., GÜRÜ M., SÖZEN A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.43, no.12, pp.1524-1548, 2021 (SCI-Expanded)
- XXXIV. **The Effects of Triton X-100 and Tween 80 Surfactants on the Thermal Performance of a Nano-Lubricant: An Experimental Study**
Akkaya M., MENLİK T., SÖZEN A., GÜRÜ M.

INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING-GREEN TECHNOLOGY, vol.8, no.3, pp.955-967, 2021 (SCI-Expanded)

- XXXV. **Overview, modeling and forecasting the effects of COVID-19 pandemic on energy market and electricity demand: a case study on Turkey**
Sözen A., İzgeç M. M., Kırbuş İ., Kazancıoğlu F. S., Tuncer A. D.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)
- XXXVI. **Upgrading of the Performance of an Air-to-Air Heat Exchanger Using Graphene/Water Nanofluid**
SÖZEN A., Filiz C., Aytac I., MARTİN K., Ali H. M., BORAN K., YETİŞKEN Y.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.42, no.3, 2021 (SCI-Expanded)
- XXXVII. **Thermal performance improvement of an indirect solar dryer with tube-type absorber packed with aluminum wool**
Sözen A., Kazancıoğlu F. S., Tuncer A. D., Khanlari A., Bilge Y. C., Güngör A.
SOLAR ENERGY, vol.217, pp.328-341, 2021 (SCI-Expanded)
- XXXVIII. **Analysis of thermal performance of an improved shell and helically coiled heat exchanger**
Tuncer A. D., SÖZEN A., Khanlari A., Gurbuz E. Y., VARİYENLİ H. İ.
APPLIED THERMAL ENGINEERING, vol.184, 2021 (SCI-Expanded)
- XXXIX. **Investigation of the effects of base fluid type of the nanofluid on heat pipe performance**
Aydın D. Y., Gürü M., Sözen A., Çiftçi E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.235, no.1, pp.124-138, 2021 (SCI-Expanded)
- XL. **Experimental and numerical analysis on using CuO-Al₂O₃/water hybrid nanofluid in a U-type tubular heat exchanger**
Gurbuz E. Y., VARİYENLİ H. İ., SÖZEN A., Khanlari A., Okten M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.31, no.1, pp.519-540, 2021 (SCI-Expanded)
- XLI. **NUMERICAL AND EXPERIMENTAL ANALYSIS OF LONGITUDINAL TUBULAR SOLAR AIR HEATERS MADE FROM PLASTIC AND METAL WASTE MATERIALS**
Khanlari A., SÖZEN A., Tuncer A. D., Afshari F., Gurbuz E. Y., Bilge Y. C.
HEAT TRANSFER RESEARCH, vol.52, no.10, pp.19-45, 2021 (SCI-Expanded)
- XLII. **ENHANCEMENT OF THERMAL PERFORMANCE OF THE AIR-TO-AIR HEAT PIPE HEAT EXCHANGER (AAHX) WITH ALUMINATE SPINEL-BASED BINARY HYBRID NANOFLUIDS**
ÇİFTÇİ E., Martin K., SÖZEN A.
HEAT TRANSFER RESEARCH, vol.52, no.17, pp.81-97, 2021 (SCI-Expanded)
- XLIII. **Heat transfer enhancement in pool boiling and condensation using h-BN/DCM and SiO₂/DCM nanofluids: experimental and numerical comparison**
Çiftçi E., Sözen A.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.31, no.1, pp.26-52, 2021 (SCI-Expanded)
- XLIV. **Energy-exergy and enviro-economic survey of solar air heaters with various air channel modifications**
Tuncer A. D., Khanlari A., SÖZEN A., Gurbuz E. Y., Sirin C., GÜNGÖR A.
RENEWABLE ENERGY, vol.160, pp.67-85, 2020 (SCI-Expanded)
- XLV. **Testing of a novel convex-type solar absorber drying chamber in dehumidification process of municipal sewage sludge**
Tuncer A. D., SÖZEN A., Afshari F., Khanlari A., Sirin C., GÜNGÖR A.
JOURNAL OF CLEANER PRODUCTION, vol.272, 2020 (SCI-Expanded)
- XLVI. **Effect of turbulator modifications on the thermal performance of cost-effective alternative solar air heater**
Afshari F., SÖZEN A., Khanlari A., Tuncer A. D., Sirin C.
RENEWABLE ENERGY, vol.158, pp.297-310, 2020 (SCI-Expanded)
- XLVII. **A comparative study on utilizing hybrid-type nanofluid in plate heat exchangers with different**

number of plates

Gurbuz E. Y., SÖZEN A., VARIYENLİ H. İ., Khanlari A., Tuncer A. D.

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.42, no.10, 2020 (SCI-Expanded)

- XLVIII. **Improvement of Thermal Performance using Spineloxides/Water Nanofluids in the Heat Recovery Unit with Air-to-Air Thermosiphon Mechanism**
Aytac I., SÖZEN A., Martin K., Filiz C., Ali H. M.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.41, no.11, 2020 (SCI-Expanded)
- XLIX. **Energetic, environmental and economic analysis of drying municipal sewage sludge with a modified sustainable solar drying system**
Khanlari A., Tuncer A. D., SÖZEN A., Sirin C., GÜNGÖR A.
SOLAR ENERGY, vol.208, pp.787-799, 2020 (SCI-Expanded)
- L. **Thermal performance enhancement of tube-type alternative indirect solar dryer with iron mesh modification**
SÖZEN A., Sirin C., Khanlari A., Tuncer A. D., Gurbuz E. Y.
SOLAR ENERGY, vol.207, pp.1269-1281, 2020 (SCI-Expanded)
- LI. **Comparative analysis and forecasting of COVID-19 cases in various European countries with ARIMA, NARNN and LSTM approaches**
Kirbas I., SÖZEN A., Tuncer A. D., Kazancioglu F. S.
CHAOS SOLITONS & FRACTALS, vol.138, 2020 (SCI-Expanded)
- LII. **Experimental investigation on using building shower drain water as a heat source for heat pump systems**
Khanlari A., SÖZEN A., ŞAHİN B., Di Nicola G., Afshari F.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (SCI-Expanded)
- LIII. **An Experimental Investigation on Aqueous Fe-CuO Hybrid Nanofluid Usage in a Plain Heat Pipe**
Martin K., SÖZEN A., ÇİFTÇİ E., Ali H. M.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.41, no.9, 2020 (SCI-Expanded)
- LIV. **Thermal performance analysis of a quadruple-pass solar air collector assisted pilot-scale greenhouse dryer**
Tuncer A. D., SÖZEN A., Khanlari A., Amini A., Sirin C.
SOLAR ENERGY, vol.203, pp.304-316, 2020 (SCI-Expanded)
- LV. **Investigation of the influences of kaolin-deionized water nanofluid on the thermal behavior of concentric type heat exchanger**
Khanlari A., Aydin D. Y., SÖZEN A., GÜRÜ M., VARIYENLİ H. İ.
HEAT AND MASS TRANSFER, vol.56, no.5, pp.1453-1462, 2020 (SCI-Expanded)
- LVI. **Performance enhancement of a greenhouse dryer: Analysis of a cost-effective alternative solar air heater**
Khanlari A., SÖZEN A., Sirin C., Tuncer A. D., GÜNGÖR A.
JOURNAL OF CLEANER PRODUCTION, vol.251, 2020 (SCI-Expanded)
- LVII. **Drying municipal sewage sludge with v-groove triple-pass and quadruple-pass solar air heaters along with testing of a solar absorber drying chamber**
Khanlari A., SÖZEN A., Afshari F., Sirin C., Tuncer A. D., GÜNGÖR A.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.709, 2020 (SCI-Expanded)
- LVIII. **Experimental and CFD survey of indirect solar dryer modified with low-cost iron mesh**
Guler H. O., SÖZEN A., Tuncer A. D., Afshari F., Khanlari A., Sirin C., GÜNGÖR A.
SOLAR ENERGY, vol.197, pp.371-384, 2020 (SCI-Expanded)
- LIX. **UPGRADING THE PERFORMANCE OF HEAT RECOVERY UNIT CONTAINING HEAT PIPES BY USING A HYBRID (CuO plus ZnO)/WATER NANOFLUID**
SÖZEN A., Martin K., Aytac I., Filiz C.
HEAT TRANSFER RESEARCH, vol.51, no.14, pp.1289-1300, 2020 (SCI-Expanded)
- LX. **EXPERIMENTAL INVESTIGATION OF NANOLUBRICANT USAGE IN A COOLING SYSTEM AT DIFFERENT**

NANOPARTICLE CONCENTRATIONS

Akkaya M., MENLİK T., SÖZEN A., GÜRÜ M.

HEAT TRANSFER RESEARCH, vol.51, no.10, pp.949-965, 2020 (SCI-Expanded)

- LXI. **NUCLEATE POOL BOILING AND CONDENSATION HEAT TRANSFER CHARACTERISTICS OF HEXAGONAL BORON NITRIDE/DICHLOROMETHANE NANOFLUID**
Çiftçi E., Sözen A.
HEAT TRANSFER RESEARCH, vol.51, pp.1043-1059, 2020 (SCI-Expanded)
- LXII. **EXPERIMENTAL INVESTIGATION ON THERMAL PERFORMANCE OF THERMOSYPHON HEAT PIPE USING DOLOMITE/DEIONIZED WATER NANOFLUID DEPENDING ON NANOPARTICLE CONCENTRATION AND SURFACTANT TYPE**
Aydın D. Y., GÜRÜ M., SÖZEN A.
HEAT TRANSFER RESEARCH, vol.51, no.11, pp.1073-1085, 2020 (SCI-Expanded)
- LXIII. **Influences of alumina and fly ash nanofluid usage on the performance of recuperator including heat pipe bundle**
Sözen A., Ozturk A., Ozalp M., Ciftci E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5095-5100, 2019 (SCI-Expanded)
- LXIV. **Experimental and numerical study on enhancement of heat transfer characteristics of a heat pipe utilizing aqueous clinoptilolite nanofluid**
Sözen A., Gürü M., Khanlari A., Çiftçi E.
APPLIED THERMAL ENGINEERING, vol.160, 2019 (SCI-Expanded)
- LXV. **Heat transfer enhancement of plate heat exchanger utilizing kaolin-including working fluid**
SÖZEN A., Khanlari A., ÇİFTÇİ E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.233, no.5, pp.626-634, 2019 (SCI-Expanded)
- LXVI. **Simulation and experimental analysis of heat transfer characteristics in the plate type heat exchangers using TiO₂/water nanofluid**
Khanlari A., SÖZEN A., VARİYENLİ H. İ.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.29, no.4, pp.1343-1362, 2019 (SCI-Expanded)
- LXVII. **Influences of bentonite-deionized water nanofluid utilization at different concentrations on heat pipe performance: An experimental study**
Guru M., SÖZEN A., Karakaya U., ÇİFTÇİ E.
APPLIED THERMAL ENGINEERING, vol.148, pp.632-640, 2019 (SCI-Expanded)
- LXVIII. **COMPARISON BETWEEN HEAT TRANSFER CHARACTERISTICS OF TiO₂/DEIONIZED WATER AND KAOLIN/DEIONIZED WATER NANOFLUIDS IN THE PLATE HEAT EXCHANGER**
Khanlari A., SÖZEN A., VARİYENLİ H. İ., GÜRÜ M.
HEAT TRANSFER RESEARCH, vol.50, no.5, pp.435-450, 2019 (SCI-Expanded)
- LXIX. **THE HEAT TRANSFER ENHANCEMENT OF CONCURRENT FLOW AND COUNTER CURRENT FLOW CONCENTRIC TUBE HEAT EXCHANGERS BY USING HEXAGONAL BORON NITRIDE-WATER NANOFLUID**
SÖZEN A., Gucluer S., Kilinc C.
THERMAL SCIENCE, vol.23, no.6, pp.3917-3928, 2019 (SCI-Expanded)
- LXX. **PERFORMANCE IMPROVEMENT OF THE HEAT RECOVERY UNIT WITH SEQUENTIAL TYPE HEAT PIPES USING TiO₂ NANOFLUID**
ÖZTÜRK A., ÖZALP M., SÖZEN A., GÜRÜ M.
THERMAL SCIENCE, vol.23, no.3, pp.1755-1764, 2019 (SCI-Expanded)
- LXXI. **Improving car radiator performance by using TiO₂-water nanofluid**
Ahmed S. A., ÖZKAYMAK M., SÖZEN A., MENLİK T., Fahed A.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.21, no.5, pp.996-1005, 2018 (SCI-Expanded)
- LXXII. **Effect of titanium dioxide/water nanofluid use on thermal performance of the flat plate solar**

collector

KILIÇ F., MENLİK T., SÖZEN A.

SOLAR ENERGY, vol.164, pp.101-108, 2018 (SCI-Expanded)

- LXXIII. **Efficiency Analysis of Turkey's Transportation System Using Decision Support Model: Data Envelopment Method**
SÖZEN A., Cipil F.
INTELLIGENT TRANSPORTATION AND PLANNING: BREAKTHROUGHS IN RESEARCH AND PRACTICE, pp.480-509, 2018 (SCI-Expanded)
- LXXIV. **Experimental comparison of Triton X-100 and sodium dodecyl benzene sulfonate surfactants on thermal performance of TiO₂-deionized water nanofluid in a thermosiphon**
Sözen A., Gürü M., Menlik T., Karakaya U., Çiftçi E.
EXPERIMENTAL HEAT TRANSFER, vol.31, no.5, pp.450-469, 2018 (SCI-Expanded)
- LXXV. **USAGE OF A DIATOMITE-CONTAINING NANOFLUID AS THE WORKING FLUID IN A WICKLESS LOOP HEAT PIPE: EXPERIMENTAL AND NUMERICAL STUDY**
SÖZEN A., ÇİFTÇİ E., KEÇEL S., GÜRÜ M., VARİYENLİ H. İ., Karakaya U.
HEAT TRANSFER RESEARCH, vol.49, no.17, pp.1721-1744, 2018 (SCI-Expanded)
- LXXVI. **Comparison of Turkey's renewable energy performance with OECD and BRICS countries by multiple criteria**
SÖZEN A., Karik F.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.12, no.5, pp.487-494, 2017 (SCI-Expanded)
- LXXVII. **Financial sustainability analysis of renewable energy plant applications**
Izgec M. M., Emre T., SÖZEN A., ÖMÜRGÖNÜLŞEN M.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.12, no.10, pp.895-902, 2017 (SCI-Expanded)
- LXXVIII. **Utilization of blast furnace slag nano-fluids in two-phase closed thermos-syphon heat pipes for enhancing heat transfer**
SÖZEN A., Guru M., Menlik T., Aktas M.
EXPERIMENTAL HEAT TRANSFER, vol.30, no.2, pp.112-125, 2017 (SCI-Expanded)
- LXXIX. **UPGRADING THE THERMAL PERFORMANCE OF PARALLEL AND CROSS-FLOW CONCENTRIC TUBE HEAT EXCHANGERS USING MgO NANOFLUID**
SÖZEN A., VARİYENLİ H. İ., ÖZDEMİR M. B., GÜRÜ M.
HEAT TRANSFER RESEARCH, vol.48, no.5, pp.419-434, 2017 (SCI-Expanded)
- LXXX. **Experimental analysis and CFD simulation of infrared apricot dryer with heat recovery**
AKTAŞ M., SÖZEN A., Amini A., Khanlari A.
DRYING TECHNOLOGY, vol.35, no.6, pp.766-783, 2017 (SCI-Expanded)
- LXXXI. **Upgrading of the thermal performance of two-phase closed thermosyphon (TPCT) using fusel oil**
SÖZEN A., MENLİK T., GÜRÜ M., AKTAŞ M.
HEAT AND MASS TRANSFER, vol.53, no.1, pp.141-149, 2017 (SCI-Expanded)
- LXXXII. **Heat transfer enhancement using alumina and fly ash nanofluids in parallel and cross-flow concentric tube heat exchangers**
SÖZEN A., VARİYENLİ H. İ., ÖZDEMİR M. B., GÜRÜ M., Aytac I.
JOURNAL OF THE ENERGY INSTITUTE, vol.89, no.3, pp.414-424, 2016 (SCI-Expanded)
- LXXXIII. **Improving the Thermal Performance of Parallel and Cross-Flow Concentric Tube Heat Exchangers Using Fly-Ash Nanofluid**
SÖZEN A., VARİYENLİ H. İ., ÖZDEMİR M. B., GÜRÜ M.
HEAT TRANSFER ENGINEERING, vol.37, no.9, pp.805-813, 2016 (SCI-Expanded)
- LXXXIV. **Utilization of Fly Ash Nanofluids in Two-phase Closed Thermosyphon for Enhancing Heat Transfer**
SÖZEN A., Menlik T., Guru M., Irmak A. F., Kilic F., Aktas M.
EXPERIMENTAL HEAT TRANSFER, vol.29, no.3, pp.337-354, 2016 (SCI-Expanded)
- LXXXV. **A comparative investigation on the effect of fly-ash and alumina nanofluids on the thermal performance of two-phase closed thermo-syphon heat pipes**
SÖZEN A., MENLİK T., GÜRÜ M., BORAN K., KILIÇ F., AKTAŞ M., Cakir M. T.

APPLIED THERMAL ENGINEERING, vol.96, pp.330-337, 2016 (SCI-Expanded)

LXXXVI. Total factor productivity change of Turkey's energy intensity

Iskender U., SÖZEN A.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.11, no.2, pp.165-175, 2016 (SCI-Expanded)

LXXXVII. Sectoral CO₂ emission reductions in Turkey: Preparing for DOHA 2020

SÖZEN A., Cakir M. T., Cipil F.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.7, pp.905-913, 2016 (SCI-Expanded)

LXXXVIII. Selection of the best location for solar plants in Turkey

SÖZEN A., Mirzapour A., Cakir M. T.

JOURNAL OF ENERGY IN SOUTHERN AFRICA, vol.26, no.4, pp.52-63, 2015 (SCI-Expanded)

LXXXIX. Heat transfer enhancement using MgO/water nanofluid in heat pipe

MENLİK T., SÖZEN A., GÜRÜ M., Oztas S.

JOURNAL OF THE ENERGY INSTITUTE, vol.88, no.3, pp.247-257, 2015 (SCI-Expanded)

XC. Performance investigation of a diffusion absorption refrigeration system using nano-size alumina particles in the refrigerant

SÖZEN A., ÖZBAŞ E., MENLİK T., Iskender U., Kilinc C., Cakir M. T.

INTERNATIONAL JOURNAL OF EXERGY, vol.18, no.4, pp.443-461, 2015 (SCI-Expanded)

XCI. Francis Türbinlerinde Yönlendirme Kanat Açısının Çark Mukavemetine ve Türbin Verimine Etkisi

SÖZEN A., KEÇEL S., YAVUZCAN H. G.

Journal of the Faculty of Engineering and Architecture of Gazi University, vol.29, no.2, pp.243-252, 2014 (SCI-Expanded)

XCII. An Evaluation of Turkey's Energy Dependency

SÖZEN A., Alp I., Iskender U.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.9, no.4, pp.398-412, 2014 (SCI-Expanded)

XCIII. THE EFFECT OF THE ANGLE OF THE WICKET GATE ON TURBINE EFFICIENCY AND STRENGTH IN FRANCIS TYPE TURBINES

SÖZEN A., KEÇEL S., YAVUZCAN H. G.

Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.29, no.2, pp.243-252, 2014 (SCI-Expanded)

XCIV. Improving the thermal performance of diffusion absorption refrigeration system with alumina nanofluids: An experimental study

SÖZEN A., ÖZBAŞ E., MENLİK T., Cakir M. T., GÜRÜ M., BORAN K.

INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.44, pp.73-80, 2014 (SCI-Expanded)

XCV. Turkey's Performance of Energy Consumption: A Study Making a Comparison With the EU Member States

Alp I., SÖZEN A.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.9, no.1, pp.87-100, 2014 (SCI-Expanded)

XCVI. THE EFFECT OF THE ANGLE OF THE WICKET GATE ON TURBINE EFFICIENCY AND STRENGTH IN FRANCIS TYPE TURBINES

SÖZEN A., KEÇEL S., Yavuzcan H. G.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.2, pp.243-252, 2014 (SCI-Expanded)

XCVII. Malmquist Total Factor Productivity Index Approach to Modelling Turkey's Performance of Energy Consumption

SÖZEN A., Alp I.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.8, no.4, pp.398-411, 2013 (SCI-Expanded)

XCVIII. Turkey's Performance of Sectoral Energy Consumption

Alp I., SÖZEN A., Kazancioglu S.

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.8, no.1, pp.94-105, 2013 (SCI-Expanded)

XCIX. Efficiency assessment of the hydro-power plants in Turkey by using Data Envelopment Analysis

SÖZEN A., ALP İ., Kilinc C.

RENEWABLE ENERGY, vol.46, pp.192-202, 2012 (SCI-Expanded)

- C. **A multiple variables data analysis on the relationship between Turkey's socioeconomic and transportation indicators**
Darcin M., SÖZEN A., Cipil F., Kurt B.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.2, pp.1217-1232, 2012 (SCI-Expanded)
- CI. **Total factor efficiency of Turkish state railways**
SÖZEN A., ALP İ., Kurt B.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.1, pp.663-678, 2012 (SCI-Expanded)
- CII. **The effect of ejector on the performance of diffusion absorption refrigeration systems: An experimental study**
SÖZEN A., MENLİK T., Ozbas E.
APPLIED THERMAL ENGINEERING, pp.44-53, 2012 (SCI-Expanded)
- CIII. **Efficiency Assessment of Turkey's Carbonization Index**
Alp I., SÖZEN A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.33, no.18, pp.1678-1691, 2011 (SCI-Expanded)
- CIV. **The Forecasting of Net Electricity Consumption of the Consumer Groups in Turkey**
SÖZEN A., ISIKAN M. O., Menlik T., ARCAKLIOĞLU E.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.6, no.1, pp.20-46, 2011 (SCI-Expanded)
- CV. **Empirical Analysis and Future Projection of the Ratio of Primary Energy Production to Consumption (RPC) in Turkey and Upgrading Policies**
SÖZEN A., Arcaklioglu E.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.6, no.3, pp.263-279, 2011 (SCI-Expanded)
- CVI. **Assessment of operational and environmental performance of the thermal power plants in Turkey by using data envelopment analysis**
SÖZEN A., ALP İ., Ozdemir A.
ENERGY POLICY, vol.38, no.10, pp.6194-6203, 2010 (SCI-Expanded)
- CVII. **Derivation of empirical equations for thermodynamic properties of a ozone safe refrigerant (R404a) using artificial neural network**
SÖZEN A., ARCAKLIOĞLU E., MENLİK T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.2, pp.1158-1168, 2010 (SCI-Expanded)
- CVIII. **Regional Distribution of Energy Indicators in Turkey**
SÖZEN A., Cakir M. T., Yucesu H. S.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.5, no.2, pp.210-223, 2010 (SCI-Expanded)
- CIX. **A Multiple Variables Data Analysis on the Relationship between Turkey's Socio-Economic and Energy Indicators**
Cakir M. T., SÖZEN A., Yucesu H. S.
ULUSLARARASI ILISKILER-INTERNATIONAL RELATIONS, vol.5, no.20, pp.27-56, 2009 (SSCI)
- CX. **Comparison of Turkey's performance of greenhouse gas emissions and local/regional pollutants with EU countries**
SÖZEN A., ALP İ.
ENERGY POLICY, vol.37, no.12, pp.5007-5018, 2009 (SCI-Expanded)
- CXI. **Future projection of the energy dependency of Turkey using artificial neural network**
SÖZEN A.
ENERGY POLICY, vol.37, no.11, pp.4827-4833, 2009 (SCI-Expanded)
- CXII. **Determination of thermodynamic properties of an alternative refrigerant (R407c) using artificial neural network**
SÖZEN A., ARCAKLIOĞLU E., MENLİK T., Ozalp M.

- EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.3, pp.4346-4356, 2009 (SCI-Expanded)
- CXIII. **Modelling of residual stresses in the shot peened material C-1020 by artificial neural network**
KARATAŞ Ç., SÖZEN A., Dulek E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.2, pp.3514-3521, 2009 (SCI-Expanded)
- CXIV. **Estimation of GHG Emissions in Turkey Using Energy and Economic Indicators**
SÖZEN A., Gulseven Z., ARCAKLIOĞLU E.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.31, no.13, pp.1141-1159, 2009 (SCI-Expanded)
- CXV. **Estimation of Net Energy Consumption in Turkey Using Different Indicators**
SÖZEN A., ARCAKLIOĞLU E., Tekiner Z.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.4, no.3, pp.261-277, 2009 (SCI-Expanded)
- CXVI. **Determination of efficiency of flat-plate solar collectors using neural network approach**
SÖZEN A., MENLİK T., Uenvar S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, no.4, pp.1533-1539, 2008 (SCI-Expanded)
- CXVII. **Investigation of mouldability for feedstocks used powder injection moulding**
KARATAŞ Ç., SÖZEN A., ARCAKLIOĞLU E., Erguney S.
MATERIALS & DESIGN, vol.29, no.9, pp.1713-1724, 2008 (SCI-Expanded)
- CXVIII. **Forecasting based on sectoral energy consumption of GHGs in Turkey and mitigation policies**
SÖZEN A., Gulseven Z., ARCAKLIOĞLU E.
ENERGY POLICY, vol.35, no.12, pp.6491-6505, 2007 (SCI-Expanded)
- CXIX. **Situation of Turkey's energy indicators among the EU member states**
SÖZEN A., Nalbant M.
ENERGY POLICY, vol.35, no.10, pp.4993-5002, 2007 (SCI-Expanded)
- CXX. **Prediction of net energy consumption based on economic indicators (GNP and GDP) in Turkey**
Soezen A., ARCAKLIOĞLU E.
ENERGY POLICY, vol.35, no.10, pp.4981-4992, 2007 (SCI-Expanded)
- CXXI. **Comparative study of mathematical and experimental analysis of spark ignition engine performance used ethanol-gasoline blend fuel**
Serdar Yucesu H. S., SÖZEN A., Topgul T., ARCAKLIOĞLU E.
APPLIED THERMAL ENGINEERING, vol.27, no.2-3, pp.358-368, 2007 (SCI-Expanded)
- CXXII. **Exergy analysis of an ejector-absorption heat transformer using artificial neural network approach**
SÖZEN A., ARCAKLIOĞLU E.
APPLIED THERMAL ENGINEERING, vol.27, pp.481-491, 2007 (SCI-Expanded)
- CXXIII. **Calculation for the thermodynamic properties of an alternative refrigerant (R508b) using artificial neural network**
SÖZEN A., Ozalp M., ARCAKLIOĞLU E.
APPLIED THERMAL ENGINEERING, vol.27, pp.551-559, 2007 (SCI-Expanded)
- CXXIV. **Performance improvement of absorption heat transformer**
SÖZEN A., Yucesu H. S.
RENEWABLE ENERGY, vol.32, no.2, pp.267-284, 2007 (SCI-Expanded)
- CXXV. **Modelling of yield length in the mould of commercial plastics using artificial neural networks**
Karatas C., SÖZEN A., ARCAKLIOĞLU E., Erguney S.
MATERIALS & DESIGN, vol.28, no.1, pp.278-286, 2007 (SCI-Expanded)
- CXXVI. **Prospects for future projections of the basic energy sources in Turkey**
SÖZEN A., ARCAKLIOĞLU E.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.2, no.2, pp.183-201, 2007 (SCI-Expanded)
- CXXVII. **Determination of residual stresses based on heat treatment conditions and densities on a hybrid (FLN2-4405) powder metallurgy steel using artificial neural network**
Kafkas F., Karatas C., SÖZEN A., ARCAKLIOĞLU E., Saritas S.
MATERIALS & DESIGN, vol.28, no.9, pp.2431-2442, 2007 (SCI-Expanded)
- CXXVIII. **Forecasting net energy consumption using artificial neural network**

- Soezen A., Akcayol M. A., ARCAKLIOĞLU E.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.1, no.2, pp.147-155, 2006 (SCI-Expanded)
- CXXIX. **Effect of relative humidity on solar potential**
SÖZEN A., ARCAKLIOĞLU E.
APPLIED ENERGY, vol.82, no.4, pp.345-367, 2005 (SCI-Expanded)
- CXXX. **Reformulation, as a function of only working temperatures, of performance parameters of a solar driven ejector-absorption cycle using artificial neural networks**
SÖZEN A., Akcayol M. A.
ENERGY SOURCES, vol.27, no.12, pp.1133-1149, 2005 (SCI-Expanded)
- CXXXI. **Formulation based on artificial neural network of thermodynamic properties of ozone friendly refrigerant/absorbent couples**
SÖZEN A., ARCAKLIOĞLU E., Ozalp M.
APPLIED THERMAL ENGINEERING, vol.25, pp.1808-1820, 2005 (SCI-Expanded)
- CXXXII. **Turkey's net energy consumption**
SÖZEN A., ARCAKLIOĞLU E., Ozkaymak M.
APPLIED ENERGY, vol.81, no.2, pp.209-221, 2005 (SCI-Expanded)
- CXXXIII. **Forecasting based on neural network approach of solar potential in Turkey**
SÖZEN A., Arcakhoglu E., Ozalp M., Caglar N.
RENEWABLE ENERGY, vol.30, no.7, pp.1075-1090, 2005 (SCI-Expanded)
- CXXXIV. **Solar-energy potential in Turkey**
SÖZEN A., ARCAKLIOĞLU E., Ozalp M., Kanit E.
APPLIED ENERGY, vol.80, no.4, pp.367-381, 2005 (SCI-Expanded)
- CXXXV. **Performance parameters of an ejector-absorption heat transformer**
SÖZEN A., ARCAKLIOĞLU E., Ozalp M., Yucesu S.
APPLIED ENERGY, vol.80, no.3, pp.273-289, 2005 (SCI-Expanded)
- CXXXVI. **Solar potential in Turkey**
SÖZEN A., ARCAKLIOĞLU E.
APPLIED ENERGY, vol.80, no.1, pp.35-45, 2005 (SCI-Expanded)
- CXXXVII. **Solar-driven ejector-absorption cooling system**
SÖZEN A., Ozalp M.
APPLIED ENERGY, vol.80, no.1, pp.97-113, 2005 (SCI-Expanded)
- CXXXVIII. **A study for estimating solar resources in Turkey using artificial neural networks**
SÖZEN A., Ozalp M., ARCAKLIOĞLU E., Kanit E.
ENERGY SOURCES, vol.26, no.14, pp.1369-1378, 2004 (SCI-Expanded)
- CXXXIX. **Modelling (using artificial neural-networks) the performance parameters of a solar-driven ejector-absorption cycle**
SÖZEN A., Akcayol M. A.
APPLIED ENERGY, vol.79, no.3, pp.309-325, 2004 (SCI-Expanded)
- CXL. **Performance prediction of a vapour-compression heat-pump**
SÖZEN A., ARCAKLIOĞLU E., Erisen A., Akcayol M. A.
APPLIED ENERGY, vol.79, no.3, pp.327-344, 2004 (SCI-Expanded)
- CXLI. **Estimation of solar potential in Turkey by artificial neural networks using meteorological and geographical data**
SÖZEN A., ARCAKLIOĞLU E., Ozalp M.
ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.3033-3052, 2004 (SCI-Expanded)
- CXLII. **Investigation of thermodynamic properties of refrigerant/absorbent couples using artificial neural networks**
SÖZEN A., Ozalp M., ARCAKLIOĞLU E.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.43, no.10, pp.1253-1264, 2004 (SCI-Expanded)
- CXLIII. **Performance analysis of ejector absorption heat pump using ozone safe fluid couple through**

artificial neural networks

SÖZEN A., ARCAKLIOĞLU E., Ozalp M.

ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.2233-2253, 2004 (SCI-Expanded)

CXLIV. Prospects for utilisation of solar driven ejector-absorption cooling system in Turkey

SÖZEN A., Ozalp M., Arcaklioglu E.

APPLIED THERMAL ENGINEERING, vol.24, no.7, pp.1019-1035, 2004 (SCI-Expanded)

CXLV. Effect of irreversibilities on performance of an absorption heat transformer used to increase solar pond's temperature

SÖZEN A.

RENEWABLE ENERGY, vol.29, no.4, pp.501-515, 2004 (SCI-Expanded)

CXLVI. Use of artificial neural networks for mapping of solar potential in Turkey

SÖZEN A., ARCAKLIOĞLU E., Ozalp M., Kanit E.

APPLIED ENERGY, vol.77, no.3, pp.273-286, 2004 (SCI-Expanded)

CXLVII. Performance prediction of a solar driven ejector-absorption cycle using fuzzy logic

SÖZEN A., Kurt M., Akcayol M. A., Ozalp M.

RENEWABLE ENERGY, vol.29, no.1, pp.53-71, 2004 (SCI-Expanded)

CXLVIII. Performance improvement of absorption refrigeration system using triple-pressure-level

SÖZEN A., Ozalp M.

APPLIED THERMAL ENGINEERING, vol.23, no.13, pp.1577-1593, 2003 (SCI-Expanded)

CXLIX. A new approach to thermodynamic analysis of ejector-absorption cycle: artificial neural networks

SÖZEN A., ARCAKLIOĞLU E., Ozalp M.

APPLIED THERMAL ENGINEERING, vol.23, no.8, pp.937-952, 2003 (SCI-Expanded)

CL. Development and testing of a prototype of absorption heat pump system operated by solar energy

SÖZEN A., Altıparmak D., Usta H.

APPLIED THERMAL ENGINEERING, vol.22, no.16, pp.1847-1859, 2002 (SCI-Expanded)

CLI. Power flattening and minor actinide burning in a thorium fusion breeder

Sahin S., Sahin H. M., SÖZEN A., Bayrak M.

ENERGY CONVERSION AND MANAGEMENT, vol.43, no.6, pp.799-815, 2002 (SCI-Expanded)

CLII. Effect of heat exchangers on performance of absorption refrigeration systems

SÖZEN A.

ENERGY CONVERSION AND MANAGEMENT, vol.42, no.14, pp.1699-1716, 2001 (SCI-Expanded)

CLIII. Investigation of the reflector temperatures of a space craft thermionic reactor

Sahin S., SÖZEN A.

NUCLEAR ENGINEERING AND DESIGN, vol.193, pp.33-43, 1999 (SCI-Expanded)

CLIV. Critical neutron heating in the control drums of a dual purpose thermionic space reactor for power and propulsion

Sahin S., SÖZEN A.

ANNALS OF NUCLEAR ENERGY, vol.26, no.2, pp.91-110, 1999 (SCI-Expanded)

CLV. Evaluation of the neutron and gamma-ray heating in the radiation shielding and magnet coils of the VISTA spacecraft

Sahin S., Sahin H. M., SÖZEN A.

FUSION TECHNOLOGY, vol.33, no.4, pp.418-434, 1998 (SCI-Expanded)

Articles Published in Other Journals

I. A Finite Element Approach for Phase-Change Analysis of Paraffin

Ozcatalbas M., SÖZEN A.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)

II. The total factor productivity of energy efficiency in buildings

Demirsoy G., SÖZEN A.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)

- III. **Francis Type Turbine Runner Design and Comparison with Model Test Results**
Sözen A.
New Energy Exploitation and Application, vol.3, no.1, pp.27-41, 2024 (Peer-Reviewed Journal)
- IV. **Determining The Optimum Photovoltaic Installation Angle For Provinces In Turkey**
Kazemzadehmarand S., SÖZEN A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2023 (ESCI)
- V. **Alternative Hybrid Solutuon Suggestions for Heating/Cooling in Turkey Using Data Envelopement Analysis and TOPSIS**
Sözen A., Menlik T., Çiftçi E., Anvari-Moghaddam A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, no.4, pp.1785-1790, 2022 (ESCI)
- VI. **Energy Poverty Clustering by Using Power-cut Job Order Data of the Electricity Distribution Companies**
Emre T., SÖZEN A.
International Journal of Energy Economics and Policy, vol.12, no.3, pp.401-409, 2022 (Scopus)
- VII. **Energy Poverty Clustering bu Using Power-cut Job Order Data of the Electricity Distribution Companies**
Sözen A., Emre T.
International Journal of Energy Economics and Policy, vol.12, no.3, pp.1-9, 2022 (Peer-Reviewed Journal)
- VIII. **Recommendations for Sustainable Support Mechanism for Renewable Energy: Efficiency and Capacity Limit Method**
Sözen A.
Journal of Environmental Science and Engineering Technology, vol.9, no.1, pp.55-62, 2021 (Peer-Reviewed Journal)
- IX. **Empirical Investigation of Small-Scale Aluminium Wool Packed Solar Air Heater Made with Waste Material**
SÖZEN A., KHANLARI A., TUNCER A. D., Şirin C., AFSHARI F., GÜNGÖR A.
Journal of Polytechnic, vol.24, pp.1337-1343, 2021 (ESCI)
- X. **Preparation of Bauxite/Deionized Water Nanofluid and Experimental Investigation of its Thermophysical Properties**
Aydin D. Y., GÜRÜ M., SÖZEN A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.24, no.2, pp.355-359, 2021 (ESCI)
- XI. **Türkiye'nin Yenilenebilir Enerji Toplam Faktör Verimliliği ve AB Ülkeleri Arasındaki Konumu**
Sözen A., Yağcı B. E.
Yeni Türkiye, no.117, pp.270-280, 2021 (Peer-Reviewed Journal)
- XII. **Mapping of Turkey's District Heating/Cooling Requirements**
Sözen A., Menlik T., Anvari-Moghaddam A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.867-878, 2020 (ESCI)
- XIII. **A Numerical Study on Performance Improvement in Boiling Heat Transfer via Dichloromethane-Based Nanofluid Utilization**
ÇİFTÇİ E., SÖZEN A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.849-857, 2020 (ESCI)
- XIV. **Evaluation of Applicability of Thermophotovoltaic System in Combi Boiler**
Isyarlar B., Menlik T.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.581-586, 2020 (ESCI)
- XV. **Modelling of Risk Indicators in a Smart Grid Newtork by Fuzzy Analytic Hierarchy Process**
Aktas I. S., Menlik T., Sözen A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.505-513, 2020 (ESCI)
- XVI. **Thermal Performance Improvement of the Heat Pipe by Employing Dolomite/Ethylene Glycol Nanofluid**
Aydin D. Y., Gürü M., Sözen A., Çiftçi E.

- INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.9, no.1, pp.23-27, 2020 (ESCI)
- XVII. **Upgrading of Performance of Diffusion Absorption Refrigeration System**
ÖZTAŞ S., GÜRÜ M., SÖZEN A., Kilinc C., GÜLSEVEN Z.
Journal of Environmental Science and Engineering Technology, vol.7, no.1, pp.35-44, 2019 (Peer-Reviewed Journal)
- XVIII. **Experimental Investigation of Thermophysical Properties of Nano Mineralogical Fluids**
Karakaya U., GÜRÜ M., SÖZEN A., Aydın D. Y., BİLİCİ İ.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.3, pp.619-626, 2019 (ESCI)
- XIX. **Nano Mineralojik Akışkanların Termofiziksel Özelliklerinin Deneysel Olarak İncelenmesi**
KARAKAYA U., Gürü M., SÖZEN A., Yılmaz Aydın D., BİLİCİ İ. E.
Politeknik Dergisi, vol.22, no.3, pp.619-626, 2019 (Peer-Reviewed Journal)
- XX. **Heat Pipe Evacuated Tubular Solar Collector Performance Improvement By Applications of Nanofluid**
Su U. O., SÖZEN A., MENLİK T.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.1, pp.245-257, 2019 (ESCI)
- XXI. **Energy-Exergy Analysis of A Novel Multi-Pass Solar Air Collector With Perforated Fins**
AKTAŞ M., SÖZEN A., Tuncer A. D., Arslan E., KOŞAN M., Curuk O.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.8, no.1, pp.47-55, 2019 (ESCI)
- XXII. **Experimental and Numerical Investigation of Nanofluid Usage in A Plate Heat Exchanger for Performance Improvement**
SÖZEN A., Khanlari A., ÇİFTÇİ E.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.8, no.1, pp.27-32, 2019 (ESCI)
- XXIII. **Nano mineralojik akışkanların termofiziksel özelliklerinin deneysel olarak incelenmesi**
Karakaya U., GÜRÜ M., SÖZEN A., YILMAZ AYDIN D., BİLİCİ İ.
Politeknik Dergisi, 2019 (Peer-Reviewed Journal)
- XXIV. **Determination of Optimum Rotational Speed of the Heat Wheel through Computational Fluid Dynamics Simulation**
SÖZEN A., ÇİFTÇİ E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.1, pp.205-215, 2019 (ESCI)
- XXV. **Experimental Investigation of an Al₂O₃/Distilled Water Nanofluid Used In the Heat Pipes of Heat Exchangers**
ÖZTÜRK A., ÖZALP M., SÖZEN A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.2, pp.616-626, 2018 (ESCI)
- XXVI. **The Importance of Wind Power Forecasts: A Case Study in Turkish Electricity Market**
Karik F., SÖZEN A., İzgeç M. M.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.20, no.4, pp.851-861, 2017 (ESCI)
- XXVII. **Numerical investigation of a heat wheel performance used for enthalpy recovery applications**
ÇİFTÇİ E., SÖZEN A.
Research on Engineering Structures and Materials, vol.3, no.3, pp.202-209, 2017 (Peer-Reviewed Journal)
- XXVIII. **Examination of Flow Effects in Francis Turbine Models with Different Numbers of Rotor Blades**
KEÇEL S., YAVUZCAN H. G., SÖZEN A.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.20, no.1, pp.241-249, 2017 (ESCI)
- XXIX. **The importance of wind power forecasts: a case study in Turkish electricity market**
KARIK F., SÖZEN A., izgeç m. m.
Politeknik Dergisi, vol.20, no.4, pp.850-861, 2017 (Peer-Reviewed Journal)
- XXX. **Determination of Performance of the Heat Wheel via CFD**
SÖZEN A., ÇİFTÇİ E.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.19, no.4, pp.547-554, 2016 (ESCI)
- XXXI. **Determination of Performance of the Heat Wheel via CFD**
Sözen A., Çiftçi E.
Politeknik Dergisi, vol.19, no.4, pp.547-554, 2016 (Peer-Reviewed Journal)

- XXXII. **Experimental Investigation of Nano fluid Usage Including TiO₂ on The Effect of Heat Pipe Performance**
ÇİFTÇİ E., SÖZEN A., Karaman E.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.3, pp.367-376, 2016 (ESCI)
- XXXIII. **Experimental Investigation of Nano fluid Usage Including TiO₂ on The Effect of Heat Pipe Performance**
Çiftçi E., Sözen A., Karaman E.
Politeknik Dergisi, vol.19, no.3, pp.367-376, 2016 (Peer-Reviewed Journal)
- XXXIV. **Modelling of Effects of Various Chip Breaker Forms on Surface Roughness in Turning Operations by Utilizing Artificial Neural Networks**
GÜRBÜZ H., SÖZEN A., ŞEKER U.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.1, pp.71-83, 2016 (ESCI)
- XXXV. **Difüzyonlu Absorbsiyonlu Mini Soğutucularda Nanoakışkan Kullanımının Ekserji Performansına Etkisi**
SÖZEN A., ÖZBAŞ E., MENLİK T., ÇİFTÇİ E., İSKENDER Ü.
Gazi Mühendislik Bilimleri Dergisi, vol.1, no.1, pp.99-118, 2015 (Peer-Reviewed Journal)
- XXXVI. **Determination of the Effect of the Angle of the Wicket Gate on Turbine Efficiency in Francis Type Turbines by CFD Analysis**
SÖZEN A., KEÇEL S., YAVUZCAN H. G.
INTERNATIONAL JOURNAL OF FLUID MECHANICS RESEARCH, vol.42, no.1, pp.1-12, 2015 (ESCI)
- XXXVII. **A Multiple Variables Data Analysis on the Relationship between Turkey's Socio- Economic and Energy Indicators**
Çakır M., SÖZEN A., YÜCESU H. S.
Uluslararası İlişkiler, vol.5, no.20, pp.27-56, 2009 (Scopus)
- XXXVIII. **A Tricky Conduit for Safe of Navigation The Strait of İstanbul**
ECE N. J., SÖZEN A., AKTEN N., EROL S.
European Journal of Navigation, vol.5, no.1, pp.46-55, 2007 (Non Peer-Reviewed Journal)
- XXXIX. **Danger evaluations of the Turkish coal mine accidents by means of "The techniques of deviation from weighted means"**
Özdemir A., SÖZEN A., KARAKAYA E.
Gazi Üniversitesi Fen Bilimleri Dergisi, vol.16, no.1, pp.145-158, 2003 (Peer-Reviewed Journal)
- XL. **Use of artificial neural networks in thermodynamic analysis of an ejector-absorption refrigeration system used methanol/LiBr fluid couple**
SÖZEN A., ARCAKLIOĞLU E., ÖZALP M.
Technology, vol.5, no.3-4, pp.27-37, 2002 (Peer-Reviewed Journal)
- XLI. **Thermodynamic Analysis Aqua-Ammonia Absorption Refrigeration System**
Sözen A.
DOĞA, vol.14, pp.363-372, 1990 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **A Comprehensive Review on Nanofluids; Synthesis, Applications and Thermodynamic Characterization**
Afshari F., Rahimpour K., Sözen A., Hanlar A., Tuncer A. D., Mofrad R. T.
in: Scientific Studies on the Edge of Global Warming, Afşin Güngör, Ali Özhna Akyüz, Azim Doğuş Tuncer, Editor, Nobel Yayinevi, Ankara, pp.261-276, 2020
- II. **NANOAKIŞKANLARIN ISIL SİSTEMLERDE KULLANIMI**
Khanları A., Sözen A., Tuncer A. D., Şirin C., Kumaş K., Güngör A.
in: Mühendislik Alanında Akademik Çalışmalar, Prof. Dr. Adnan HAYALOĞLU, Dr. Abdurrahman GÜNDAY, Editor, Gece Publishing, Ankara, pp.175-188, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **TÜRK DÜNYASINDA ENERJİ TEKNOLOJİLERİ VE İNOVASYON ALANINDAKİ GELİŞMELER: FAZ DEĞİŞTİREN MALZEME KATKILI METAL KÖPÜKLER**
Sözen A.
XI Türk Dünyası Araştırmaları Sempozyumu, Baku, Azerbaycan, 11 - 13 June 2024, pp.55-65
- II. **Performance of Photovoltaic/Thermal (PV/T) System Using Magnetic Nanofluids**
HANÇERLİOĞULLARI A., SÖZEN A., SWESA E. E. H. A., REZAEIZADEH R.
ICEFC2022(3rd International Environment and Forest Conservation Symposium), Kastamonu, Turkey, 21 February 2022, vol.3, pp.14-19
- III. **Determination of Primary Resource Factor (PRF) for Flexible and District Heating and Cooling in Turkey**
SÖZEN A., MENLİK T., ÇİFTÇİ E., MARTİN K.
Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, Gaziantep, Turkey, 8 - 10 September 2021
- IV. **Enhancement of Heat Transfer Performance of Air to Air Heat Recovery Unit Containing Heat Pipe Using MgO/Water and MgAl₂O₄/water Nano Fluids**
MARTİN K., ÇİFTÇİ E., SÖZEN A.
Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, Gaziantep, Turkey, 8 - 10 September 2021
- V. **Experimental Investigation of Diffusion Absorption Refrigeration System Working with FeOAl₂O₃ and MgOAl₂O₃ Nanoparticles Added Ammonia/Water Nanofluid**
Gürbüz E. Y., Sözen A., Özbaş E.
INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE & ENGINEERING AND HIGH TECH DEVICE APPLICATIONS, Ankara, Turkey, 2 - 04 October 2020, pp.212
- VI. **An Overview of Smart Meter Installation with Smart Transmission Networks in the World**
AKTAŞ İ. Ş., SÖZEN A., MENLİK T.
International Conference on Advanced Materials Sci. Eng. HiTech. Devices Application, Ankara, Turkey, 2 - 04 October 2020
- VII. **Influences of Single-Type and Hybrid-Type Nanofluids on Heat Transfer Characteristics of Plate and Concentric Tube Heat Exchangers**
SÖZEN A., ÇİFTÇİ E., VARİYENLİ H. İ.
International Conference on Advanced Materials Science Engineering and High Tech Device Applications, Ankara, Turkey, 2 - 04 October 2020
- VIII. **Preparation of Aqueous FeCuO, ZnOAl₂O₃ and CuO Al₂O₃ Hybrid Nanofluids and Thermal System Applications**
SÖZEN A., ÇİFTÇİ E., AYTAÇ İ.
International Conference on Advanced Materials Science Engineering and High Tech Device Applications, Ankara, Turkey, 2 - 04 October 2020
- IX. **Upgrading of Performance of Air to Air Heat Pipe Heat Exchanger By Using CuOZnO Hybrid Nano Fluid**
MARTİN K., AYTAÇ İ., FİLİZ Ç., SÖZEN A., İSKENDER Ü.
8th European Conference on Renewable Energy Systems, 24 - 25 August 2020
- X. **Experimental Investigation of the Use of MgOZnO Mixture in Thermosiphon Type Heat Pipes within the Scope of Air-to-Air Heat Exchanger Design**
MARTİN K., AYTAÇ İ., FİLİZ Ç., SÖZEN A., KILINÇ C.
8th European Conference on Renewable Energy Systems, 24 - 25 August 2020
- XI. **CFD analysis on fin and baffle configurations in solar air collector.**
AFSHARI F., KHANLARI A., SÖZEN A., Şirin C., TUNCER A. D., GÜNGÖR A.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XII. **Testing of a solar air heater made with scrap metal elbows: utilization of recycled materials**
TUNCER A. D., SÖZEN A., AFSHARI F., Şirin C., KHANLARI A., GÜNGÖR A.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XIII. **Effect of tilt angle on PV front glass and tedlar temperature**

- AFSHARI F., SÖZEN A., TUNCER A. D., KHANLARI A., Şirin C., GÜNGÖR A.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XIV. **A recent overview on waste management in Turkey: biomass energy utilization potential**
TUNCER A. D., SÖZEN A., şirin c., KHANLARI A., Afshari F.
International Congress of Energy, Economy and Security, İstanbul, Turkey, 8 - 10 November 2019, pp.226-235
- XV. **Investigation of Thermophysical Properties of Dolomite Nanofluid**
YILMAZ AYDIN D., GÜRÜ M., SÖZEN A., ÇİFTÇİ E.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019
- XVI. **Effects of Nanoparticle Concentration and Surfactant Types on Thermal Performance of the Aqueous Bauxite Nanofluid in a Heat Pipe**
YILMAZ AYDIN D., GÜRÜ M., SÖZEN A., ÇİFTÇİ E.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019
- XVII. **Impacts of the Base Fluid Species on the Thermal Performance of the Nanofluid Used in a Heat Pipe**
YILMAZ AYDIN D., GÜRÜ M., SÖZEN A., ÇİFTÇİ E.
7th European Conference on Renewable Energy Systems, 10 - 12 June 2019
- XVIII. **Enhancement of Heat Transfer Characteristics of a Heat Pipe by Utilizing Dolomite/Ethylene Glycol Nanofluid**
YILMAZ AYDIN D., GÜRÜ M., SÖZEN A., ÇİFTÇİ E.
7th European Conference on Renewable Energy Systems, Madrid, Spain, 10 - 12 June 2019
- XIX. **A Comparative Study on Two Stage Water Cooled-Thermoelectric Refrigerators, Separate and Consecutive Modes**
KHANLARI A., SÖZEN A., Afshari F., ŞAHİN B.
2nd International Conference on Energy Research (ENRES-2019), Marmaris, Turkey, 11 - 13 April 2019, pp.46-53
- XX. **Upgrading of Performance of Diffusion Absorption Refrigeration System by Using TiO₂ Nanoparticles**
ALTINTAŞOĞLU E. Y., SÖZEN A., ÖZBAŞ E.
2nd International Conference on Energy Research (ENRES), 11 - 13 April 2019
- XXI. **Utilization of CuO/water nanofluid in a tube type heat exchanger**
VARIYENLİ H. İ., SÖZEN A., ALTINTAŞOĞLU E. Y., KHANLARI A., ÖKTEN M.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XXII. **Isı Değiştiricili Isı Geri Kazanım Ünitelerinde Nanoakışkan Kullanılarak Performansın İyileştirilmesine Genel Bir Başlangıç**
FİLİZ Ç., YETİŞKEN Y., SÖZEN A.
International Congress on Energy Research, 31 October - 02 November 2018
- XXIII. **Experimental and Numerical Analysis of the Influences of TiO₂-Containing Nanofluid Utilization on Heat Transfer Enhancement of a Plate Heat Exchanger**
SÖZEN A., KHANLARI A., ÇİFTÇİ E.
6th European Conference on Renewable Energy Systems, İstanbul, Turkey, 25 - 27 June 2018
- XXIV. **Experimental Investigation on the Effects of Kaolin/Deionized Water Nanofluid Usage in a Plate Type Heat Exchanger**
SÖZEN A., KHANLARI A., ÇİFTÇİ E.
6th European Conference on Renewable Energy Systems, İstanbul, Turkey, 25 - 27 June 2018
- XXV. **DESIGN AND THERMAL PERFORMANCE ANALYSIS OF A NOVEL MULTI-PASS SOLAR AIR COLLECTOR WITH PERFORATED FINS**
AKTAŞ M., SÖZEN A., TUNCER A. D., ARSLAN E., KOŞAN M., ÇÜRÜK O.
6. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS (ECRES18), İstanbul, Turkey, 25 - 27 June 2018, pp.533-539
- XXVI. **Nanofluid Applications in Thermal Systems**
SÖZEN A., ÇİFTÇİ E.
2nd European Conference on Materials, Mechatronics and Manufacturing, Krakow, Poland, 10 - 12 February 2018
- XXVII. **Difüzyonlu Absorbsiyonlu Soğutma (DAS) Sistemlerinde Termal Kompresördeki Isı Değiştiricisinin**

Tasarımı ve Performansa Etkisi

şahin ö., ÖZBAŞ E., MENLİK T., SÖZEN A., KALE D.

First International Conference on Energy Systems Engineering, 2 - 04 November 2017

- XXVIII. **TiO₂ Nanoakışkanının Paralel Akışlı Borulu Tip Isı Değiştiricilerde Isıl İletkenliğe Etkisi**
erol e., MENLİK T., SÖZEN A.
First International Conference on Energy Systems Engineering, 2 - 04 November 2017
- XXIX. **Experimental Investigation of a Heat Pipe Performance Using Bauxite/Deionized Water Nanofluid**
SÖZEN A., MENLİK T., ÇİFTÇİ E., VARİYENLİ H. İ., KARAKAYA U., KILINÇEL M.
ICCESEN 2017, 4 - 08 October 2017
- XXX. **Experimental Investigation of the Effect of Nanoparticle Size on the Performance of Thermosyphon with Clinoptilolite /Water Nanofluid**
GÜRBÜZ E. Y., ÇİFTÇİ E., SÖZEN A., GÜRÜ M., KARAKAYA U.
1st International Conference on Energy Systems Engineering, Karabük, Turkey, 2 - 04 November 2017
- XXXI. **Determination of Thermal Performance Improvement of an Air-Air Heat Exchanger Including Heat Pipe System Using a Nanofluidic Working Fluid**
SÖZEN A., ÖZTÜRK A., ÖZALP M., ÇİFTÇİ E.
4th International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 4 - 08 October 2017
- XXXII. **Experimental Investigation of a Heat Pipe Performance Using Bauxite/Deionized Water Nanofluid**
SÖZEN A., MENLİK T., ÇİFTÇİ E., VARİYENLİ H. İ., KARAKAYA U., KILINÇEL M.
4th International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 4 - 08 October 2017
- XXXIII. **Isı Borulu Hava-Hava Isı Değiştiricilerinde Nanoakışkan Kullanımının Isıl Performans Üzerindeki Etkilerinin Deneysel Olarak Belirlenmesi**
ÖZTÜRK A., ÖZALP M., SÖZEN A., ÇİFTÇİ E.
21. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK17), Çorum, Turkey, 13 - 16 September 2017, pp.212-218
- XXXIV. **DÜZLEM YÜZEY GÜNEŞ KOLEKTÖRLERİNDE TİTANYUMDİOKSİT-SU NANOAKIŞKANI KULLANIMININ ISIL PERFORMANSA ETKİSİ**
MENLİK T., KILIÇ F., SÖZEN A.
IDEFIS 2017 II. Uluslararası Savunma Sanayi Sempozyumu, 6 - 08 April 2017
- XXXV. **Isı Borularının Performansını Etkileyen Parametrelerin Optimizasyonu**
MENLİK T., SÖZEN A., KILIÇ F., KARACA D.
II. Uluslararası Savunma Sanayi Sempozyumu, 6 - 08 April 2017, pp.1088-1109
- XXXVI. **The Utilization and Comparison of Nano Fluids in the Air to Air Heat Exchanger Systems**
ÖZTÜRK A., ÖZALP M., SÖZEN A.
INTERNATIONAL CONFERENCE OF APPLIED SCIENCES, ENGINEERING AND MATHEMATICS (ICASEM 2017), Struga-Ohrid, Macedonia, 5 - 07 May 2017, pp.111
- XXXVII. **Investigation of the Effects on the Thermal Performance of the SiC/Water Nanofluid Utilization in Heat Pipes**
ÇİFTÇİ E., SÖZEN A., GÜRÜ M., KILINÇEL M.
2nd International Conference on Viable Energy Trends, Helsinki, Finland, 28 - 30 April 2017
- XXXVIII. **Renewable Energy Plant Applications in Turkey**
İZGEÇ M. M., SÖZEN A., ÇİFTÇİ E.
2nd International Conference on Viable Energy Trends, Helsinki, Finland, 28 - 30 April 2017
- XXXIX. **Düzlem Yüzey Güneş Kolektörlerinde Titanyumdioksit-Su Nanoakışkanı Kullanımının Isıl Performansa Etkisi**
MENLİK T., KILIÇ F., SÖZEN A.
II. Uluslararası Savunma Sanayi Sempozyumu, 6 - 08 April 2017
- XL. **Isı Borularının Performansını Etkileyen Parametrelerin Optimizasyonu**
MENLİK T., SÖZEN A., KILIÇ F.
2. Uluslararası Savunma Sanayi Sempozyumu, 6 - 08 April 2017

- XLI. Türkiye nin Çevresel Performansının OECD ve BRICS Ülkeleri ile Karşılaştırılması**
SÖZEN A., KARİK F., ÇİFTÇİ E.
3. International Symposium on Environment and Morality, Antalya, Turkey, 4 - 06 November 2016, pp.201-209
- XLII. Türkiye Elektrik Piyasasında Yenilenebilir Enerji Santralleri Yeni Destekleme Mekanizması Üzerine Bir Uygulama**
KARİK F., İZGEÇ M. M., SÖZEN A.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.227
- XLIII. 1st International Mediterranean Science and Engineering Congress IMSEC 2016**
KILIÇ F., SÖZEN A., MENLİK T.
(IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.237-241
- XLIV. Düzlem yüzey güneş kolektörlerinde alümina su nano akışkanı kullanımının ısı performansına etkisi**
KILIÇ F., SÖZEN A., MENLİK T.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.236-240
- XLV. Comparison of Turkey s energy performance with OECD and BRICS countries at macroeconomic level**
SÖZEN A., KARİK F.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.119-125
- XLVI. Düzlem Yüzey Güneş Kollektörlerinde Alümina Su nanoakışkanı Kullanımının Isıl Performansa Etkisi**
KILIÇ F., SÖZEN A., MENLİK T.
IMSEC 1. International Mediterranean Science and Engineering Congress, 26 - 28 October 2016, pp.236-240
- XLVII. DUZLEM YUZEY GUNES KOLEKTORLERINDE ALUMINA SU NANO AKISKANI KULLANIMININ ISIL PERFORMANSA ETKISI**
KILIÇ F., SÖZEN A., MENLİK T.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016) Çukurova University, Congress Center, October 26-28, 2016, Adana / TURKEY, Adana, Turkey, 26 October 2016, pp.236-240
- XLVIII. Investigation of the Performance of the Heat Wheel Using CFD**
ÇİFTÇİ E., SÖZEN A.
8th International Ege Energy Symposium&Exhibition, Afyonkarahisar, Turkey, 11 - 13 May 2016, pp.210-214
- XLIX. Influence on the Thermal Performance of the Sepiolite Based Nano fluid Usage in a Two Phase Closed Thermosyphon An Experimental Study**
SÖZEN A., ÇİFTÇİ E.
1st International Conference on Engineering Technology and Applied Sciences, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.189-193
- L. Influence on the Thermal Performance of the Sepiolite-Based Nano Fluid Usage in a Two Phase Closed Thermosyphon: An Experimental Study**
SÖZEN A., ÇİFTÇİ E.
1.International Conference On Engineering Technology and Applied Sciences, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.189-193
- LI. Enhancing of the Thermal Performance of the Heat Pipe Using Diatomite water nanofluid**
SÖZEN A., ÇİFTÇİ E.
1th International Conference on engineering Technology and Applied Science, 21 - 22 April 2016
- LII. Füzeli Yağı Kullanılarak Isı Borusu Performansının İyileştirilmesi**
ÇİFTÇİ E., SÖZEN A., MENLİK T., GÜRÜ M.
3. Anadolu Enerji Sempozyumu, Muğla, Turkey, 1 - 03 October 2015
- LIII. The Influence of Absorbents on the Cooling Performance of Diffusion Absorption Mini Refrigeration Systems**
ÖZTAŞ S., GÜRÜ M., SÖZEN A., ÖZBAŞ E.
2nd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2015), Antalya, Turkey, 14 - 19 October 2015

- LIV. **Selecting Best Location of Wind Plants in Turkish Cities Using DEA and TOPSIS**
SÖZEN A., ÇİFTÇİ E., MIRZAPOUR A.
Intercontinental Wind Power Congress, İstanbul, Turkey, 31 March - 02 April 2015
- LV. **A Novel Nanofluid Research Application of Fly Ash Nanofluids in a Two Phase Closed Thermosyphon Heat Pipe**
KILIÇ F., MENLİK T., SÖZEN A., GÜRÜ M.
7. International Powder Metallurgy Conference & Exhibition, 24 - 28 June 2015
- LVI. **Selection of the Best Location To Set Up Solar Plants In Turkey**
ÇİFTÇİ E., SÖZEN A., MIRZAPOUR A.
4th International Conference On Nuclear Renewable Energy Resources, Antalya, Turkey, 26 - 29 October 2014
- LVII. **Improvement on the Thermal Performance of the Heat Pipe by Using Nano Fluid**
ÇİFTÇİ E., BALCIOĞLU B., BORAN K., SÖZEN A.
7th International Ege Energy Symposium Exhibition, Uşak, Turkey, 18 - 20 June 2014
- LVIII. **Difüzyonlu Absorbsiyonlu Mini Soğutucularda Nano Boyutta Metal Oksitler İçeren Soğutucu Akışkan Kullanımının Performansa Etkisi**
AYAZ M. S., SÖZEN A., ÖZBAŞ E., MENLİK T., AKTAŞ M., BORAN K., ÇİFTÇİ E.
9. Ulusal Temiz Enerji Sempozyumu, Konya, Turkey, 25 - 28 December 2013
- LIX. **Soğurmalı Soğutma Sistemlerinde Kullanılan Ejektörlerin Akış Analizi**
SÖZEN A., KEÇEL S., Kazancıoğlu F. Ş.
1.Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu, Balıkesir, Turkey, 13 - 15 September 2012, pp.552-567
- LX. **Yayınımlı Soğurmalı Soğutma Sisteminde Performans İyileştirilmesi**
ÖZBAŞ E., SÖZEN A., MENLİK T., KEÇEL S., Kazancıoğlu F. Ş.
1.Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu, Balıkesir, Turkey, 13 - 15 September 2012, pp.540-551
- LXI. **Demiryolu ulaşım göstergeleri bakımından Türkiye nin AB ülkeleri arasındaki konumu**
SÖZEN A., NALBANT M.
Uluslararası Demiryolu Sempozyumu, Ankara, Turkey, 13 - 15 September 2006, pp.268-276
- LXII. **Feasibility of usage possibility in turkey of solar driven ejector-absorption cooling system**
SÖZEN A., YÜCESU H. S.
2004 International Solar Energy Conference, Portland, OR, United States Of America, 11 - 14 July 2004, pp.305-311

Supported Projects

- Sözen A., Company, TR 2017/03238 B SAYILI PATENTİN KORUMA KAPSAMININ TESPİTİ, BU PATENTİN HÜKÜMSÜZLÜĞÜ HAKKINDA TEKNİK DEĞERLENDİRME, 2023 - 2023
- Sözen A., Company, FOTOVOLTAİK GÜNEŞ PANELLERİNİN ÇEVRESEL ETKİ DEĞERLENDİRME RAPORU (Sera Gazı ve Ağır Metaller), 2023 - 2023
- Sözen A., Project Supported by Other Official Institutions, TIBBİ CİHAZ SEKTÖR ARAŞTIRMASI RAPORU, 2023 - 2023
- Sözen A., Project Supported by Other Official Institutions, Tıbbi Cihaz Sektör Araştırması, 2022 - 2022
- Sözen A., EU Supported Other Project, Green and Flexible District Heating/Cooling in Turkey, 2019 - 2022
- Sözen A., Menlik T., Project Supported by Higher Education Institutions, Sıvı Isıtan Düzlem Yüzeyle Güneş Kollektörlerinin Isıl Performansının Arttırılması, 2014 - 2018
- AKTAŞ M., SÖZEN A., MENLİK T., Project Supported by Other Private Institutions, ANKARA HAYAT SEBLA EVLERİ D BLOKTA BULUNAN BİNA ALT KATINDAKİ İŞLETMELERE AİT VE BİNA İÇERİSİNDEN GEÇEN BACALARIN MEVCUT DURUMUNUN TESPİTİ VE BACA ALTERNATİFLERİ İLE İLGİLİ PROJE, 2017 - 2017
- Sözen A., Ministry of Transport, BAŞKENTRAY PROJESİ KAPSAMINDA YAPILAN İSTASYONLARA YOLCU GİRİŞ-ÇIKIŞINI SAĞLAMAK AMACIYLA KULLANILAN KAMU TİPİ YÜRÜYEN MERDİVEN MOTOR GÜÇLERİNİN GÜNCEL STANDARTLARA GÖRE BELİRLENMESİ PROJESİ, 2017 - 2017
- SÖZEN A., Project Supported by Other Private Institutions, Ayakkabı tabanı üretiminde kullanılan farklı oranlarda şişirici katkılı EVA hammaddesinin çekme oranlarının sıcaklık ve kuvvete göre değişiminin incelenmesi, 2017 - 2017
- Alp İ., Sözen A., Menlik T., Company, ELEKTRONİK ÖN ÖDEMELİ KARTLI DOĞALGAZ SAYAÇLARINDAKİ METROLOJİK

DEĞERLER KULLANILARAK ANALİTİK METODLARLA SAYAÇLARIN ÖLÇME HASSASİYETLERİ VE ÖMÜRLERİ HAKKINDA DURUM TESPİT PROJESİ, 2016 - 2016

Menlik T., Sözen A., Chamber / Union / Professional Association, DOĞALGAZ SAYAÇLARINDA YAŞLANDIRMANIN ETKİSİYLE EL EDEİLEN METROLOJİK DEĞERLER KULLANILARAK TÜRKİYE DOĞAL GAZ DAĞITIM ŞEBEKESİNİN TEKNİK KAYBININ DEĞERLENDİRİLMESİNDE KULLANILACAK SAYAÇ KAYNAKLI KAYIP ORANININ TESPİT PROJESİ, 2016 - 2016

Sözen A., Project Supported by Other Official Institutions, ŞANLIURFA E TİPİ KAPALI CEZA İNFAZ KURUMU HAVALANDIRMA SOĞUTMA VE DUMAN TAHLİYE SİSTEMİ PROJESİ, 2013 - 2015

Sözen A., Güneş A., TUBITAK Project, YÜKSEK ENERJİ TASARRUFU VE DÜŞÜK KURUTMA SÜRESİNE SAHİP ULUSLARARASI HİJYEN STANDARTLARINA UYGUN YERLİ VAKUMLU ISI POMPALI GIDA KURUTUCUSU GELİŞTİRME PROJESİ, 2013 - 2015

Sözen A., Project Supported by Higher Education Institutions, DİFUZYONLU ABSORPSİYONLU MİNİ SOĞUTUCULARDA FARKLI SOĞUTUCU GAZLARIN PERFORMANSA ETKİSİ, 2012 - 2014

Sözen A., Energy and Natural Resources Ministry, Ev tipi absorpsiyonlu difüzyonlu ejektörlü soğutma sistemi tasarımı ve imali, 2012 - 2014

Sözen A., Özdemir V., Industrial Thesis Project, Ev Tipi Alternatif Enerji Kaynaklı Ejektörlü-Difüzyonlu Absorpsiyon Soğutma Sistemi Tasarım Ve İmali, 2012 - 2014

Sözen A., TUBITAK Project, Otel Tipi Difüzyonlu-Absorpsiyonlu Mini Soğutucularda Kullanılan Akışkan Çiftlerinin (Soğutucu-Soğurucu) Sistem Performansına Etkisinin Deneysel Olarak Araştırılması, 2012 - 2013

Sözen A., Project Supported by Higher Education Institutions, BULAŞIK MAKİNALARINDA EJEKTÖR KULLANIMI İLE SUYA OZON KARIŞIM SİSTEMİ TASARIMI, 2011 - 2013

SÖZEN A., Project Supported by Higher Education Institutions, TÜRKİYE İÇİN ENERJİ VE ÇEVRE MODELİ GELİŞTİRİLMESİ, 2010 - 2012

Sözen A., TUBITAK Project, Otel tipi mini soğutucularda akışkan çiftlerinin soğutucu soğurucu performans üzerine etkilerinin deneysel incelenmesi, 2010 - 2011

Sözen A., Project Supported by Higher Education Institutions, BÖLGESEL OPTİMUM İZOLASYON KALINLIĞININ TESPİTİ, 2008 - 2009

SÖZEN A., Project Supported by Higher Education Institutions, Buzdolabı Tipi Absorpsiyonlu, Ejektörlü ve Üç Gazlı Soğutucu Tasarımı ve İmali, 2007 - 2009

Sözen A., Project Supported by Higher Education Institutions, Çatı Güneş Kolektörlü Klima Tasarımı, 2005 - 2007

SÖZEN A., Project Supported by Higher Education Institutions, Ozon Tabakasına Zarar Vermeyen Alternatif Soğutucu Akışkanlar Kullanan ve Sanayideki Atık Isı Enerjisinin Geri Kazanımı Sistemine Dayalı Soğutma ve Isıtma Sistemleri Tasarımı, 2003 - 2005

SÖZEN A., Project Supported by Higher Education Institutions, Güneş enerjili soğutma sistemi tasarımı, 2001 - 2003

Activities in Scientific Journals

INTERNATIONAL JOURNAL OF AMBIENT ENERGY, Assistant Editor/Section Editor, 2021 - Continues

First Editor, 2021 - Continues

JOURNAL OF ENVIRONMENTAL SCIENCE AND ENGINEERING TECHNOLOGY, Assistant Editor/Section Editor, 2015 - Continues

POLİTEKNİK, First Editor, 2014 - Continues

Current Alternative Energy, First Editor, 2020 - 2023

SUSTAINABILITY, Special Issue Editor, 2021 - 2022

TECHNICS, First Editor, 2019 - 2022

Energy Sources Part A-Recovery Utilization And Environmental Effects, Committee Member, 2012 - 2018

Memberships / Tasks in Scientific Organizations

Isı Bilimi ve Tekniği Derneği, Member, 1990 - Continues, Turkey

TMMOB Makina Mühendisleri Odası, Member, 1986 - Continues, Turkey
Bilim ve Teknoloji Derneği, Member, 2003 - 2020, Turkey
TÜRK BİLİM ARAŞTIRMA VAKFI, Member, 2000 - 2015, Turkey
NATO AGARD UÇUŞ ARAÇLARI ENTEGRASYONU PANELİ, Principal Member, 1995 - 1997, Belgium

Scientific Refereeing

SOLAR ENERGY INTERNATIONAL JOURNAL FOR SCIENTISTS, ENGINEERS AND TECHNOLOGISTS IN SOLAR ENERGY AND ITS APPLICATION, SCI Journal, September 2023
CHEMICAL COMMUNICATIONS, SCI Journal, August 2023
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI Journal, August 2023
HELIYON, SCI Journal, August 2023
JOURNAL OF THERMAL SCIENCE AND ENGINEERING APPLICATIONS, SCI Journal, August 2023
HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, July 2023
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI Journal, April 2023
HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, April 2023
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT AND FLUID FLOW, SCI Journal, March 2023
ENERGY JOURNAL, SCI Journal, January 2023
SOLAR ENERGY, SCI Journal, February 2022
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, February 2022
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, Journal Indexed in SCI-E, February 2022
ENERGY EFFICIENCY, Journal Indexed in SCI-E, January 2022
DIAMOND AND RELATED MATERIALS, Journal Indexed in SCI-E, January 2022
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, January 2022
DESALINATION, Journal Indexed in SCI-E, January 2022
ENERGIES, Journal Indexed in SCI-E, January 2022
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, January 2022
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, SCI Journal, December 2021
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, December 2021
THERMAL SCIENCE AND ENGINEERING PROGRESS, Journal Indexed in SCI-E, December 2021
EXPERT SYSTEMS WITH APPLICATIONS, SCI Journal, December 2021
WAVES IN RANDOM AND COMPLEX MEDIA, Journal Indexed in SCI-E, December 2021
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, December 2021
DESALINATION AND WATER TREATMENT, Journal Indexed in SCI-E, December 2021
International Journal of Ambient Energy, Journal Indexed in ESCI, December 2021
ENERGY, SCI Journal, December 2021
JOURNAL OF THERMAL SCIENCE AND ENGINEERING APPLICATIONS, Journal Indexed in SCI-E, December 2021
ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, December 2021
Cleaner Engineering and Technology, Journal Indexed in ESCI, December 2021
ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, November 2021
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, November 2021
International journal of ambient energy, Journal Indexed in ESCI, November 2021
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2021
International Journal Of Ambient Energy, Journal Indexed in ESCI, November 2021
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2021
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, SCI Journal, November 2021
International Journal Of Ambient Energy, Journal Indexed in ESCI, November 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, November 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, November 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, November 2021

Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
Project Supported by Public Organizations in Other Countries, Scientific Fund of Serbia, Serbia, October 2021
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, Journal Indexed in SCI-E, September 2021
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, August 2021
JOURNAL OF THERMAL SCIENCE AND ENGINEERING APPLICATIONS, SCI Journal, August 2021
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Journal, August 2021
Journal Of Nanomaterials, SCI Journal, August 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, August 2021
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Gazi University, Turkey, August 2021
ENERGY, SCI Journal, July 2021
CHEMICAL ENGINEERING AND PROCESSING, Journal Indexed in SCI-E, July 2021
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Journal, July 2021
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, July 2021
ENERGY, SCI Journal, June 2021
Technopark, Gazi University, Turkey, June 2021
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, May 2021
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI Journal, May 2021
ENERGY, SCI Journal, May 2021
Heat Transfer, Journal Indexed in ESCI, May 2021
SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, May 2021
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, Journal Indexed in SCI-E, May 2021
COMPOSITES PART B-ENGINEERING, SCI Journal, May 2021
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, May 2021
JOURNAL OF FOOD PROCESS ENGINEERING, SCI Journal, April 2021
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, SCI Journal, April 2021
INTERNATIONAL JOURNAL OF GREEN ENERGY, Journal Indexed in SCI-E, March 2021
ENERGY, SCI Journal, March 2021
HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, March 2021
Frontiers in Energy, Journal Indexed in ESCI, March 2021
HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, March 2021
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, Journal Indexed in SCI-E, March 2021
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, March 2021
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Journal, March 2021
SOLAR ENERGY, SCI Journal, March 2021
ENERGY, SCI Journal, February 2021
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, February 2021
sustainable Energy, Journal Indexed in ESCI, February 2021
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, Journal Indexed in SCI-E, January 2021
TRANSPORT POLICY, Journal Indexed in SCI-E, January 2021

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, January 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, Journal Indexed in SCI-E, December 2020

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, December 2020

JOURNAL OF FOOD PROCESS ENGINEERING, Journal Indexed in SCI-E, December 2020

CANADIAN JOURNAL OF CHEMICAL ENGINEERING, Journal Indexed in SCI-E, December 2020

ENERGY, SCI Journal, November 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ataturk University, Turkey, November 2020

ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, SCI Journal, September 2020

ENERGY, SCI Journal, September 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ataturk University, Turkey, September 2020

ENERGY, SCI Journal, August 2020

HEAT TRANSFER RESEARCH, SCI Journal, July 2020

ENERGY, SCI Journal, July 2020

JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, Journal Indexed in SCI-E, July 2020

ENERGY, SCI Journal, May 2020

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, May 2020

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Journal, May 2020

ENERGY, SCI Journal, April 2020

INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, SCI Journal, April 2020

ENERGY, SCI Journal, March 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, February 2020

ENERGY, SCI Journal, January 2020

INTERNATIONAL JOURNAL OF PHOTOENERGY, Journal Indexed in SCI-E, November 2019

PROGRESS IN NUCLEAR ENERGY, SCI Journal, August 2019

ACTA OECOLOGICA-INTERNATIONAL JOURNAL OF ECOLOGY, SCI Journal, July 2019

COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, Journal Indexed in SCI-E, March 2019

IRANIAN POLYMER JOURNAL, Journal Indexed in SCI-E, February 2019

JOURNAL OF CLEANER PRODUCTION, SCI Journal, January 2019

INTERNATIONAL JOURNAL OF GREENHOUSE GAS CONTROL, Journal Indexed in SCI-E, October 2018

MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, August 2018

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, National Scientific Refreed Journal, July 2018

INTERNATIONAL JOURNAL OF PHOTOENERGY, Journal Indexed in SCI-E, May 2018

HEAT AND MASS TRANSFER, SCI Journal, May 2018

MEASUREMENT, SCI Journal, January 2018

ENERGIES, SCI Journal, January 2018

INTERNATIONAL JOURNAL OF GLOBAL WARMING, Journal Indexed in SCI-E, May 2017

SCIENTIFIC RESEARCH AND ESSAYS, Journal Indexed in SCI-E, May 2017

SOLAR ENERGY, Journal Indexed in SCI-E, May 2017

METEOROLOGY AND ATMOSPHERIC PHYSICS, Journal Indexed in SCI-E, April 2017

INTERNATIONAL JOURNAL OF MULTIPHASE FLOW, Journal Indexed in SCI-E, July 2016

ECOLOGICAL INDICATORS, Journal Indexed in SCI-E, June 2016

Akışkanlar Mekaniği: Temelleri ve Uygulamaları, Textbook Published by Renowned Publishing Houses, May 2016

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, April 2016

DESALINATION AND WATER TREATMENT, Journal Indexed in SCI-E, November 2015

ATMOSPHERIC ENVIRONMENT, Journal Indexed in SCI-E, September 2015

CLIMATIC CHANGE, Journal Indexed in SCI-E, April 2015

POWDER TECHNOLOGY, Journal Indexed in SCI-E, July 2014

ENVIRONMETRICS, Journal Indexed in SCI-E, May 2014

INTERNATIONAL JOURNAL OF EXERGY, Journal Indexed in SCI-E, May 2014

IET RENEWABLE POWER GENERATION, Journal Indexed in SCI-E, February 2014
EXPERIMENTAL THERMAL AND FLUID SCIENCE, Journal Indexed in SCI-E, January 2014
JOURNAL OF THE ENERGY INSTITUTE, Journal Indexed in SCI-E, August 2013

Scientific Consultations

YÜKSEL İNŞAAT, Scientific Consultancy, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, Turkey, 2017 - 2017

Tasks In Event Organizations

Sözen A., 11.ECRES, Scientific Congress, Riga, Latvia, Mayıs 2023
Sözen A., İKLİM ŞURASI, Scientific Congress, Konya, Turkey, Şubat 2022
Sözen A., 1 ST INTERNATIONAL CONFERENCE ON APPLIED ENGINEERING AND NATURAL SCIENCES , Scientific Congress, Konya, Turkey, Kasım 2021
Sözen A., ULIBTK 2021, Scientific Congress, Gaziantep, Turkey, Eylül 2021
Sözen A., Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, Scientific Congress, Gaziantep, Turkey, Eylül 2021
Sözen A., INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE & ENGINEERING AND HIGH TECH DEVICE APPLICATIONS, Scientific Congress, Ankara, Turkey, Ekim 2020
Sözen A., 8th European Conference on Renewable Energy Systems (ECRES2020), Scientific Congress, İstanbul, Turkey, Ağustos 2020
Sözen A., 8.European Conference on Renewable Energy Systems, Scientific Congress, İstanbul, Turkey, Ağustos 2020
Sözen A., ULIBTK 2019, Scientific Congress, Kocaeli, Turkey, Eylül 2019
Sözen A., 1st International Symposium On Automotive Science And Technology(ISASTECH2019), Scientific Congress, Ankara, Turkey, Eylül 2019
Sözen A., Seventh European Conference on Renewable Energy Systems (ECRES2019, Scientific Congress, Madrid, Spain, Haziran 2019
Sözen A., 6. ULUSLARARASI MATBAA TEKNOLOJİLERİ SEMPOZYUMU, Scientific Congress, İstanbul, Turkey, Kasım 2018
Sözen A., SÜRDÜRÜLEBİLİR ULAŞIM İÇİN ULUSAL YOL VE TRAFİK GÜVENLİĞİ KONGRESİ, Scientific Congress, Ankara, Turkey, Haziran 2016
Sözen A., 3.Anadolu Enerji Kongresi, Scientific Congress, Eskişehir, Turkey, Ekim 2015

Scientific Research / Working Group Memberships

Tübitak Çağrılı Projeler Danışma Kurulu., Gazi University, Turkey, www.tubitak.gov.tr, 2018 - 2020

Metrics

Publication: 263
Citation (WoS): 4913
Citation (Scopus): 5932
H-Index (WoS): 45
H-Index (Scopus): 48

Congress and Symposium Activities

INTERNATIONAL HIGHER EDUCATION SYMPOSIUM & THE PRESENT AND FUTURE OF EDUCATION IN UNIVERSITIES ,

Invited Speaker, Ankara, Turkey, 2024

9th International Conference on Time Series and Forecasting (ITISE-2023), Working Group, Granada, Spain, 2023

ICMECE 2021, Invited Speaker, Ankara, Turkey, 2021

Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, Session Moderator, Gaziantep, Turkey, 2021

ULIBTK 2021, Panelists, Gaziantep, Turkey, 2021

International Symposium on Automotive Science and Technology, Session Moderator, Ankara, Turkey, 2021

NATO RESEARCH And TECHNOLOGY, SYSTEMS CONCEPTS AND INTEGRATION PANEL, Invited Speaker, Paris, France, 1997

Scholarships

Doktora Bursu, Other Government Agencies, 1990 - 1994

Awards

Sözen A., Yayın Teşvik Ödülü, Tübitak, November 2021

Sözen A., Yayın teşvik ödülü, Tübitak, June 2021

Sözen A., Atıf Ödülü, Gazi Üniversitesi, June 2021

Sözen A., Yayın Teşvik, Gazi Üniversitesi, June 2021

Sözen A., YAYIN TEŞVİK , Tübitak, August 2020

Sözen A., YAYIN TEŞVİK, Tübitak, December 2019

Sözen A., OUTSTANDING REVIEWER AWARDS 2019, Iop Publishing, January 2019

Sözen A., YAYIN TEŞVİK, Tübitak, August 2018

Sözen A., YAYIN TEŞVİK, Tübitak, July 2017

Sözen A., YAYIN TEŞVİK, Tübitak, June 2016

Sözen A., YAYIN TEŞVİK, Tübitak, May 2015

Sözen A., Variyenli H. İ., Kendi Elektrikli Üreten Kombi, Gazi Üniversitesi İU.Bilim Şenliği, May 2015

Sözen A., YAYIN TEŞVİK, Tübitak, April 2014

Sözen A., YAYIN TEŞVİK, Tübitak, May 2013

Sözen A., YAYIN TEŞVİK, Tübitak, March 2012

Sözen A., YAYIN TEŞVİK, Tübitak, June 2011

Sözen A., EREŞ F., YAYIN TEŞVİK, Tübitak, June 2010

Visual Activities

Sözen A., Politeknik Dergisi, Journal Publishing, 2012 - 2023

Sözen A., Gazi Mühendislik Bilimleri Dergisi, Journal Publishing, 2015 - 2017

Sözen A., Journal of Science, Journal Publishing, 1992 - 1997

Sözen A., Fen Bilimleri Enstitüsü Tez Özetleri Kitaplığı, Journal Publishing, 1992 - 1995

Representation and Promotion Activities

Institutional Representation, Kocaeli Üniversitesi, Turkey, Kocaeli, 2017 - 2019