

Prof. ATAKAN AVCI

Personal Information

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Education Information

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1985 - 1990

Postgraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1982 - 1985

Undergraduate, Bursa Üniversitesi, Makine Fakültesi, Genel Makine Pr., Turkey 1977 - 1982

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yüksek basınçlı heterojen yanmalı iç balistik probleminin matematik modellenmesi, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1989

Postgraduate, HAVA KİRLİLİĞİNDE SİKLOTLARIN ROLÜ VE BACA GAZINI SİKLOTLA TEMİZLEME ÇABASI, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, 1985

Academic Titles / Tasks

Professor, Bursa Uludağ University, Mühendislik Fakültesi, 1985 - Continues

Academic and Administrative Experience

Bursa Uludağ University, Rektörlük, 2017 - 2019

Bursa Uludağ University, Mühendislik Fakültesi, 2013 - 2017

Courses

TERMODİNAMİK 2, Undergraduate, 2016 - 2017, 2017 - 2018

HİDROLİK MAKİNELER, Undergraduate, 2016 - 2017, 2017 - 2018

MAKİNE TASARIMI, Undergraduate, 2016 - 2017, 2017 - 2018

BİTİRME ÖDEVİ, Undergraduate, 2016 - 2017, 2017 - 2018

GAZ DİNAMİĞİ, Postgraduate, 2016 - 2017, 2017 - 2018

TERMODİNAMİK 1, Undergraduate, 2016 - 2017, 2017 - 2018

PARÇACIK DİNAMİĞİ, Doctorate, 2016 - 2017, 2017 - 2018

Advising Theses

- AVCI A., Waste mud burning plant and optimization, Postgraduate, S.Büyükpoyraz(Student), 2020
- AVCI A., Experimental investigation of the performance of mini cyclons in high efficient different geometry, Postgraduate, C.Karakaş(Student), 2020
- AVCI A., Experimental investigation of the effect of body diameter on cyclone performance in virtual body cyclone seperators, Postgraduate, G.Çelik(Student), 2020
- AVCI A., Multipurpose energy usage analysis and implementation, Postgraduate, P.Kandemir(Student), 2019
- AVCI A., Avcı A., Experimental study of thermal stratification effects via conic obstacles placed inside the vertical mantled hot water tank, Postgraduate, G.Kurtuluş(Student), 2019
- AVCI A., Sanal gövdeli mini bir siklon ayırıcının performansının İncelenmesi, Postgraduate, A.Mohammed(Student), 2018
- AVCI A., Energy and exergy efficiency of industrial furnaces; case study performing energy and exergy analysis of enamel furnace through efficiency project, Postgraduate, S.VATANDAŞ(Student), 2016
- AVCI A., Analysis of latent heat storage to solar heater, Postgraduate, B.ARABACIGİL(Student), 2011
- AVCI A., Estimation and optimisation of cyclone separators' performance, Postgraduate, U.DEMİR(Student), 2011
- AVCI A., Investigation of the effect of geometrical and operating parameters on the vortex length in cyclone filters, Postgraduate, İ.CAMUZ(Student), 2011
- AVCI A., Experimental investigation of the relationship between efficiency-pressure loss and height in cyclone filters, Postgraduate, T.OKUR(Student), 2011
- AVCI A., The investigation of structure and operating parameters effect on the heat transfer coefficient in porous structures, Doctorate, N.YÜKSEL(Student), 2010
- AVCI A., Determination of residential energy consumption characteristics and comparison fuel cells with alternative energy systems for the houses in Bursa, Doctorate, M.EMİN(Student), 2006
- AVCI A., Examined of flow and pressure losses in tangential cyclones, Postgraduate, C.TUĞHAN(Student), 2003
- AVCI A., Modelling and optimisation of energy storage systems, Postgraduate, N.YÜKSEL(Student), 2003
- AVCI A., Investigation of the effects on the valve design of the alternative fuel combustion, Postgraduate, H.Bilal(Student), 2000
- AVCI A., Alternatif yakıt kullanımının supap tasarımı üzerindeki etkilerinin incelenmesi, Postgraduate, H.BİLAL(Student), 2000
- AVCI A., Mathematical modelling of combustion phenomena in reversed flow natural gas furnaces, Postgraduate, M.YONCACILAR(Student), 1998
- AVCI A., Economic and thermal analysis of cogeneration application in the automotive type textile sector established in Bursa, Postgraduate, T.AYTEKİN(Student), 1998
- AVCI A., Technical and economic analysis of the use of natural gas as an energy source in industry, Postgraduate, A.BULUT(Student), 1998
- AVCI A., Analysis of control applications in terms of energy saving in heating systems, Postgraduate, A.GÜLEÇ(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation into the effects of various parameters on the performance and classification potential of a cyclone classifier**
Caliskan M. E. , KARAGÖZ İ., AVCI A., SÜRME N A.
POWDER TECHNOLOGY, vol.356, pp.102-111, 2019 (Peer-Reviewed Journal)
- II. **Performance analysis of axial and reverse flow cyclone separators**
Sakin A., KARAGÖZ İ., AVCI A.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.144, 2019 (Peer-Reviewed Journal)
- III. **Effects of separation space diameter on the performance of a novel reverse flow cyclone**
Sakin A., KARAGÖZ İ., AVCI A.
SEPARATION SCIENCE AND TECHNOLOGY, vol.54, no.15, pp.2450-2460, 2019 (Peer-Reviewed Journal)
- IV. **An experimental investigation into the particle classification capability of a novel cyclone separator**

- Caliskan M. E. , KARAGÖZ İ., AVCI A., SÜRMEŒ A.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.209, pp.908-913, 2019 (Peer-Reviewed Journal)
- V. **Development of a variable-profile cam to enhance the volumetric efficiency of IC engines**
SÜRMEŒ A., ARSLAN R., KOPMAZ O., AVCI A., KARAGÖZ İ., KARAMANGİL M. İ.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.73, pp.63-75, 2017 (Peer-Reviewed Journal)
- VI. **Effects of Geometrical Parameters on the Pressure Drop for a Modified Cyclone Separator**
Tan F., KARAGÖZ İ., AVCI A.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.39, no.3, pp.576-581, 2016 (Peer-Reviewed Journal)
- VII. **The Effects of Vortex Finder Dimensions on the Natural Vortex Length in a New Cyclone Separator**
Tan F., KARAGÖZ İ., AVCI A.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.203, no.9, pp.1216-1221, 2016 (Peer-Reviewed Journal)
- VIII. **THE USE OF PARAFFIN WAX IN A NEW SOLAR COOKER WITH INNER AND OUTER REFLECTORS**
Arabacigil B., YÜKSEL N., AVCI A.
THERMAL SCIENCE, vol.19, no.5, pp.1663-1671, 2015 (Peer-Reviewed Journal)
- IX. **Experimental investigation into performance characteristics of reversed flow cyclone separators**
Sendogan O., KARAGÖZ İ., AVCI A., SÜRMEŒ A.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.6, pp.339-349, 2014 (Peer-Reviewed Journal)
- X. **Design and performance evaluation of a new cyclone separator**
KARAGÖZ İ., AVCI A., SÜRMEŒ A., Sendogan O.
JOURNAL OF AEROSOL SCIENCE, vol.59, pp.57-64, 2013 (Peer-Reviewed Journal)
- XI. **Development of a new method for evaluating vortex length in reversed flow cyclone separators**
AVCI A., KARAGÖZ İ., SÜRMEŒ A.
POWDER TECHNOLOGY, vol.235, pp.460-466, 2013 (Peer-Reviewed Journal)
- XII. **Experimental Investigation of the Natural Vortex Length in Tangential Inlet Cyclones**
AVCI A., KARAGÖZ İ., SÜRMEŒ A., Camuz I.
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.1, pp.122-126, 2013 (Peer-Reviewed Journal)
- XIII. **The thermal analysis of paraffin wax in a box-type solar cooker**
YÜKSEL N., Arabacigil B., AVCI A.
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.4, no.6, 2012 (Peer-Reviewed Journal)
- XIV. **Closure to "Discussion: 'A Novel Explicit Equation for Friction Factor in Smooth and Rough Pipes' "**
(2011, ASME J. Fluids Eng., 133, p. 015501)
KARAGÖZ İ., AVCI A.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.133, no.1, 2011 (Peer-Reviewed Journal)
- XV. **Effects of Surface Roughness on the Performance of Tangential Inlet Cyclone Separators**
Kaya F., KARAGÖZ İ., AVCI A.
AEROSOL SCIENCE AND TECHNOLOGY, vol.45, no.8, pp.988-995, 2011 (Peer-Reviewed Journal)
- XVI. **THE PRESENT STUDIES ON EFFECTIVE THERMAL CONDUCTIVITIES OF POROUS MEDIUMS**
Yuksel N., AVCI A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.2, pp.331-346, 2010 (Peer-Reviewed Journal)
- XVII. **Usability of cyclone separators as air filters in vehicles**
KARAGÖZ İ., Kaya F., AVCI A.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.133-143, 2010 (Peer-Reviewed Journal)
- XVIII. **A Novel Explicit Equation for Friction Factor in Smooth and Rough Pipes**
AVCI A., KARAGÖZ İ.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.131, no.6, 2009 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Design and Performance Analysis of Virtual Body Mini Cyclone**

- Çalışkan M. E. , Karagöz İ., Avcı A., Sürmen A.
International journal of Research Science and Management, vol.12, no.4, pp.57-65, 2017 (Peer-Reviewed Journal)
- II. **A Computational Comparison of Flow and Pressure fields in Axial and Reverse Flow Cyclone Separators**
SAKİN A., KARAGÖZ İ., AVCI A.
International Journal of Computational and Experimental Science and Engineering (IJCESEN), vol.3, no.2, pp.20-25, 2017 (Peer-Reviewed Journal)
- III. **PLAKA GÖVDE BORU VE MİNYATÜR BORU TİP ISI EŞANJÖRLERİNİN TEKNİK VE EKONOMİK AÇIDAN KARŞILAŞTIRILMASI**
CANBOLAT A. S. , TÜRKAN B., ETEMOĞLU A. B. , CAN M., AVCI A.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.21, no.2, pp.107-121, 2016 (Peer-Reviewed Journal)
- IV. **Alternatif Yakıt Kullanımının Egzoz Supabına Etkisinin İncelenmesi**
KARAMANGİL M. İ. , AVCI A., EREL G. K.
DEÜ Fen ve Mühendislik Dergisi, vol.9, no.1, pp.21-34, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Teknik Tesisat El Kitabı**
CAN M., AVCI A., ETEMOĞLU A. B.
Dora Basım-Yayın Dağıtım Ltd.Şti., Bursa, 2017
- II. **Teknik Tesisat El Kitabı**
Can M., Avcı A., Etemoğlu A. B.
Dora, Bursa, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **Design and Performance Analysis of a Virtual Body Mini Cyclone**
Çalışkan M. E. , KARAGÖZ İ., AVCI A., SÜR MEN A.
8th International Advanced Technologies Symposium, 19 - 22 October 2017
- II. **A Computational Comparison of Flow and Pressure Fields in Axial and Reverse Flow Cyclone Separators**
sakin a., KARAGÖZ İ., AVCI A.
International Journal of Computational and Experimental Science and Engineering (IJCESEN), 19 - 24 October 2016
- III. **a computational comparision of flow and pressure fields in axial and reverse flow cyclone separator**
sakin a., KARAGÖZ İ., AVCI A.
3. international confarence on computational and experimental science and engineering, Antalya, Turkey, 19 - 24 October 2016, pp.345
- IV. **Investigation of Exergetic Irreversibility with CO2 Emission Measurement in Industrial Enamel Oven**
vatandaş s., söğüt m. z. , AVCI A.
IEEEES-2016, Antalya, Turkey, 1 - 04 May 2016, pp.18-23
- V. **A NUMERICAL STUDY ON THE EFFECTS OF SURFACE ROUGHNESS FOR A NEW CYCLONE FILTER**
Tan F., KARAGÖZ İ., AVCI A.
ICENS2015, Bosnia And Herzegovina, 16 - 19 May 2016, pp.238
- VI. **Study on Improving the Thermal Performance of the Solar Chimney System with using Fresnel Lenses**
Tan F., KARAGÖZ İ., AVCI A.
International Conference on Engineering and Natural Sciences, 15 - 19 May 2015, pp.239
- VII. **Ters Akışlı Kazanlarda Brülör Namlusu Dalma Uzunluğunun Isı Taşınımına Etkisi**

KILIÇ M., AVCI A.

10. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 6 - 08 September 1995, vol.2, pp.1199-1205

- VIII. **Ocak Artığı Kömürlerin Analizi ve Temizlenmesine Ait Basit Bir Sistem Tasarımı.**Karamangil, A.Sürmen, A. Avcı. "Ocak Artığı Kömürlerin Analizi ve Temizlenmesine Ait Basit Bir Sistem Tasarımı", III. Yanma Sempozyumu., Sayfa: 415-422, 19-21 Temmuz 1993, Kirazlıyayla-BURSA.

KARAMANGİL M. İ. , SÜRME A., AVCI A.

III. Yanma Sempozyumu, Bursa, Turkey, 19 - 21 July 1993

Supported Projects

Sürmen A., Avcı A., Karamangil M. İ. , TUBITAK Project, İçten Yanmalı Motorlar için Piezo Tetiklemeli Supap Tahrik Mekanizması Geliştirilmesi, 2018 - 2021

AVCI A., COŞKUN S., KARPAT F., YİĞİT A., KAYNAKLI Ö., Project Supported by Other Private Institutions, Bursagaz faaliyet alanında bulunan eski doğalgaz iç tesisatlarının, cihaz ve bağlantılarının incelenerek, teknik risklerin belirlenmesi, çözüm önerileri getirilmesiyle ilgili araştırma yapılması, 2015 - 2017

AVCI A., Project Supported by Other Private Institutions, akışkan yataklı reaktörde arıtma çamurlarının bertaraf edilmesi ve enerji elde edilmesi için kurulacak pilot tesisin projelendirilmesi, 2015 - 2016

AVCI A., SÜRME A., TUBITAK Project, siklon ayırıcıların optimizasyonu ve taşıtlarda hava filtresi olarak kullanılabilirliğinin incelenmesi, 2012 - 2014

Patent

Sürmen A., Avcı A., Karagöz İ., Kopmaz O., Arslan R., Karamangil M. İ. , EĞRİSEL YÜZEYLİ DEĞİŞKEN ZAMANLAMALI KAM, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR2013 13298B , Standard Registration, 2019

Avcı A., Sürmen A., Karagöz İ., Gövde ve girdap sınırlayıcı boyu ayarlanabilir siklon ayırıcı, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2012/05043 , Standard Registration, 2014

Metrics

Publication: 36

Citation (WoS): 220

Citation (Scopus): 241

H-Index (WoS): 6

H-Index (Scopus): 7