

Lect. PhD ESENAY ARSLAN

Personal Information

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Address: Kayseri Üniversitesi Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu

International Researcher IDs

ScholarID: 3m1Cn7UAAAAJ

ORCID: 0000-0001-5429-5471

Publons / Web Of Science ResearcherID: CAA-3029-2022

ScopusID: 57292847600

Yoksis Researcher ID: 261605

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey 2017 - 2023

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2013 - 2016

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2008 - 2013

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Hesaplamalı Akışkanlar Dinamiği Eğitim Semineri, ARI TEAM Mühendislik Danışmanlık ve Eğitim Hizmetleri Ltd. Şti, 2020

Dissertations

Doctorate, İçten yanmalı dizel bir motorda CNG-H₂-CO₂ gaz karışımlarının motor performans ve emisyonlarına etkisinin deneysel incelenmesi, Erciyes University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2023

Postgraduate, İKİ ZAMANLI MOTORDA DEĞİŞKEN SUPAP ZAMANLAMASININ MOTOR PERFORMANSINA ETKİSİNİN SAYISAL İNCELENMESİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2016

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Fuels and Combustion, Internal Combustion Engines, Computational fluid dynamics, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2023 - Continues
Lecturer, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2018 - 2023
Lecturer, Erciyes University, Mustafa Çıkrıkçıoğlu M.Y.O., Elektrik Ve Enerji Bölümü, 2017 - 2018

Academic and Administrative Experience

Assistant Coordinator of The Rectorate, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2024 - Continues
Head of Department, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2023 - Continues
Meslek Yüksekokulu Kurulu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2023 - Continues
Rectorate Commissioner, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2023 - Continues
Birim Kalite Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, 2023 - Continues
Performans Değerlendirme Komisyonu Başkanı, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - Continues
Staj Başkanı, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - Continues
Eğitim Öğretim Planlama Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2021 - Continues
İntibak Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2021 - Continues
Ders Bilgi Paketi Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2021 - Continues
Mevzuat Uygunluk Değerlendirme Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2021 - Continues
Kayseri Üniversitesi Sıfır Atık Komisyon Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2020 - Continues
Birim Katalog Sorumlusu, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2020 - Continues
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Kayseri University, Rektörlük, Rektörlük, 2019 - Continues
Birim Sıfır Atık Komisyon Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2019 - Continues
Öğrenci Staj Değerlendirme Komisyon Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2018 - Continues
Deputy Head of Department, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - 2023
Birim Stratejik Plan Komisyonu Üyesi, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2019 - 2022
Deputy Director of Continuing Education Center, Kayseri University, Rektörlük, Rektörlük, 2019 - 2021

Courses

DOĞRU AKIM DEVRE ANALİZİ, Associate Degree, 2023 - 2024, 2022 - 2023
MESLEKİ YABANCI DİL II, Associate Degree, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
JEOTERMAL ENERJİ UYGULAMALARI, Associate Degree, 2023 - 2024, 2022 - 2023
AKIŞKANLAR MEKANİĞİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019
ENERJİ DEPOLAMA, Associate Degree, 2023 - 2024
ENERJİ SİSTEM TASARIMI, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 -

2019

KARİYER PLANLAMA, Associate Degree, 2023 - 2024

TEMEL ELEKTRİK-ELEKTRONİK, Associate Degree, 2023 - 2024

KARİYER PLANLAMA, Associate Degree, 2023 - 2024

MESLEKİ YABANCI DİL I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

GÜNEŞ ENERJİSİ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MESLEKİ YABANCI DİL I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

RÜZGAR ENERJİSİ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2023 - 2024, 2022 - 2023

ISI POMPASI VE UYGULAMALARI, Associate Degree, 2023 - 2024, 2022 - 2023

BİLGİSAYAR DESTEKLİ TASARIM, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020

ALTERNATİF AKIM DEVRE ANALİZİ, Associate Degree, 2022 - 2023

BİLGİSAYAR DESTEKLİ TASARIM, Associate Degree, 2021 - 2022

BİLGİSAYAR DESTEKLİ PROJE ÇİZİMİ-II, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

ENERJİ VE ÇEVRE, Associate Degree, 2021 - 2022, 2020 - 2021

BİLGİSAYAR DESTEKLİ PROJE ÇİZİMİ-I, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

TEKNİK RESİM, Associate Degree, 2021 - 2022, 2019 - 2020, 2018 - 2019

TEKNİK RESİM, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

ISI POMPASI VE JEOTERMAL ENERJİ, Associate Degree, 2017 - 2018

GÜNEŞ ENERJİSİ, Associate Degree, 2016 - 2017

GÜNEŞ ENERJİLİ KONUT ISITMA SİSTEMLERİ, Associate Degree, 2017 - 2018

BİYOKÜTLE ENERJİSİ VE TEKNOLOJİSİ, Associate Degree, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Examination of the effect on the engine of diesel-nanoparticle mixture with natural gas addition**
ARSLAN E., Raşit Atelge M., KAHRAMAN N., ÜNALAN S., Çeper B. A.
Fuel, vol.357, 2024 (SCI-Expanded)
- II. **Investigation of H₂ enrichment of ternary blended fuel modified with graphene nanoplate on cycle-by-cycle variations**
Atelge M., ARSLAN E., KAHRAMAN N., Kaushal R., ÜNALAN S.
International Journal of Hydrogen Energy, vol.52, pp.1519-1533, 2024 (SCI-Expanded)
- III. **Evaluation of hybrid nanoparticles to oxygenated fuel with ethanol and n- butanol on combustion behavior**
Atelge M., Arslan E., Kahraman N., Ünalán S.
Fuel, vol.344, 2023 (SCI-Expanded)
- IV. **A study on the effects of nanoparticle addition to a diesel engine operating in dual fuel mode**
ARSLAN E., Raşit Atelge M., KAHRAMAN N., ÜNALAN S.
Fuel, vol.326, 2022 (SCI-Expanded)
- V. **Comparative investigation of multi-walled carbon nanotube modified diesel fuel and biogas in dual fuel mode on combustion, performance, and emission characteristics**
Atelge M., Arslan E., Krisa D., Al-Samaraae R., Abut S., Ünalán S., Mohamed Atabanı A., Kahraman N., Akansu S. O., Kaya M., et al.
Fuel, vol.313, 2022 (SCI-Expanded)
- VI. **Comparison of natural gas and propane addition to combustion air in terms of engine performance in compression ignition engine**
Arslan E., Kahraman N.
Fuel, vol.312, 2022 (SCI-Expanded)
- VII. **The effects of hydrogen enriched natural gas under different engine loads in a diesel engine**

Arslan E., Kahraman N.

International Journal of Hydrogen Energy, vol.47, pp.12410-12420, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. The effects of E80D20 ethanol-diesel blend on combustion and exhaust emissions in SI engine

Arslan E., İlhak M. İ.

International journal of energy studies (Online), vol.8, no.4, pp.859-878, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. EFFECT OF DIESEL-ETHANOL-BUTANOL-NANOPARTICLE BLEND FUEL ON CYCLE-BY-CYCLE VARIATIONS UNDER DUAL-FUEL MODE WITH HYDROGEN ADDITION

Atelge M. R., Arslan E., Kahraman N., Ünal S., Kaushal R.

International Conference on Energy, Environment and Storage of Energy (ICEESEN 2022), Kayseri, Turkey, 1 - 03 September 2022, pp.279-282

II. EVALUATION OF BINARY NANOPARTICLES TO OXYGENATED FUEL WITH ETHANOL AND N- BUTANOL ON COMBUSTION BEHAVIOUR

Atelge M. R., Arslan E., Kahraman N., Ünal S.

16th International Combustion Symposium (INCOS2022), Aydın, Turkey, 8 - 11 September 2022, pp.421-425

III. A STUDY ON THE NANOPARTICLE CONTRIBUTION IN A DUAL FUEL DIESEL ENGINE

Arslan E., Atelge M. R., Kahraman N., Ünal S., Albayrak Çeper B.

16th International Combustion Symposium (INCOS2022), Aydın, Turkey, 8 - 11 September 2022, pp.586

IV. Experimental Investigation of the Effects of Adding H₂/CH₄ Mixture to the Engine Fueled with CNT Additive Diesel Fuel

Arslan E., Atelge M. R., Kahraman N., Ünal S.

The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Kayseri, Turkey, 16 - 18 October 2021, pp.536

V. Effect of Modified Fuel with Nanoparticle and Alcohols Blend on Combustion Behavior

Atelge M. R., Arslan E., Ünal S., Mohamed Atabani A., Kahraman N., Akansu S. O.

The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Kayseri, Turkey, 16 - 18 October 2021, pp.552-553

VI. Investigation on Combustion Characteristics of a Diesel Engine Fueled with Diesel, Biogas, and MCNT

Atelge M. R., Arslan E., Abut S., Akansu S. O., Mohamed Atabani A., Kahraman N., Ünal S.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, vol.1, pp.114-119

VII. EFFECT OF ADDING CARBON NANOTUBE ON THE COMBUSTION OF DIESEL AND DIESEL-NATURAL GAS MIXTURE

Arslan E., Atelge M. R., Kahraman N., Ünal S., Albayrak Çeper B.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, vol.1, pp.298-303

VIII. EFFECT OF START OF INJECTION ON PERFORMANCE IN COMPRESSION IGNITION ENGINE BY USING AVL FIRE

Arslan E., Albayrak Çeper B., Kahraman N., Akansu S. O.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, vol.1, pp.275-280

IX. Numerical Study Of Laminar Premixed Combustion Of A Methane

Albayrak Çeper B., Kahraman N., Arslan E.

International Conference on Energy, Environment and Storage of Energy, Kayseri, Turkey, 19 - 21 November 2020,

vol.1, pp.221-226

- X. **Prediction Of Fuel Saving And Reduction In CO2 Emissions In The Case Of Using Cylinder Deactivation System In Automobiles In Turkey**
Arslan E., Kahraman N., Albayrak Çeper B.
International Conference on Energy, Environment and Storage of Energy, Kayseri, Turkey, 19 - 21 November 2020, vol.1, pp.124-129
- XI. **Experimental Investigation Of The Effect Of Propane Addition On Diesel Engine Performance**
Arslan E., Fil H. E., Kahraman N.
15th INTERNATIONAL COMBUSTION SYMPOSIUM, Kayseri, Turkey, 17 - 19 September 2020, vol.1, pp.459-464
- XII. **Investigation Of Natural Gas-Diesel Fuel Mixture In Terms Of Engine Performance In Compression Ignition Engine**
Arslan E., Akbıyık T., Kahraman N.
15th INTERNATIONAL COMBUSTION SYMPOSIUM, Kayseri, Turkey, 17 - 19 September 2020, vol.1, pp.349-355
- XIII. **Numerical Modeling of Temporary De-Activation of A Cylinder On Four Cylinder Engine**
Arslan E., Atay H., Kahraman N., Akansu S. O.
22. ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Kocaeli, Turkey, 11 - 14 September 2019, vol.1, pp.843-852
- XIV. **Investigation Of The Effects Of Ethanol-Diesel Mixture On Performance And Emissions Of An SI Engine**
İlhak M. İ., Arslan E., Kahraman N., Albayrak Çeper B.
22. ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Kocaeli, Turkey, 11 - 14 September 2019, vol.2, pp.106-111
- XV. **Injector Deactivation System in IC Vehicle Engines**
Kahraman N., Albayrak Çeper B., Arslan E., Akansu S. O.
12th International Conference on Sustainable Energy & Environmental Protection, Sharjah, United Arab Emirates, 18 - 21 November 2019, vol.1, pp.224-230
- XVI. **Investigation of Combustion Characteristics of Two-Stroke Engine In Variable Inlet Pressures**
ARSLAN E., ALBAYRAK ÇEPER B., KAHRAMAN N., AKANSU S. O.
UMTEB III. International Congress of Technical and Technical Sciences, Gaziantep, Turkey, 21 June 2018, pp.320
- XVII. **Numerical Modeling of an LPG-Fuelled Internal Combustion Engine**
ARSLAN E., ALBAYRAK ÇEPER B., KAHRAMAN N., AKANSU S. O.
UMTEB III. International Congress of Technical and Technical Sciences, Gaziantep, Turkey, 21 June 2018, pp.321
- XVIII. **Investigation of Combustion Characteristics In Two-Stroke Engine Fueled By Methane**
Arslan E., Albayrak Çeper B., Kahraman N., Akansu S. O.
14th International Combustion Symposium , Karabük, Turkey, 25 - 27 April 2018, vol.1, pp.308-322
- XIX. **Numerical Analysis of Turbulence Boundary Layer Development Around Mass Bodies**
ÖZKILIÇ S., KAHRAMAN N., ARSLAN E.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 September 2017, pp.1052-1063
- XX. **Numerical Investigation on Oxy Enriched Air Combustion with Methane Fuel in Combustion Chamber of a Boiler**
Arslan E., Akansu S. O., Kahraman N., Yıldız M.
6 th International Conference on Renewable Fuels Combustion and Fire, Nevşehir, Turkey, 18 May 2017, vol.1, no.1, pp.255-264
- XXI. **Investigation Of Cold Flow Characteristics In Two-Stroke Engine Fueled By Methane**
AKANSU S. O., ARSLAN E., KAHRAMAN N., YILMAZ E.
8th International Conference on Sustainable Energy&Environmental Protection, Glasgow, United Kingdom, 11 August 2015, pp.219-225

Supported Projects

Kahraman N., Arslan E., Project Supported by Higher Education Institutions, İçten Yanmalı Bir Motorda Sentetik Gaz ve Karışımlarının Motor Performans ve Emisyonlarına Etkisinin İncelenmesi, 2020 - 2023

Akansu S. O., Arslan E., Project Supported by Higher Education Institutions, İki Zamanlı Motorda Değişken Supap Zamanlamasının Motor Performansına Etkisinin Sayısal İncelenmesi, 2015 - 2017

Student Project

R & D Project, Kayseri Üniversitesi Karbon Ayak İzinin Değerlendirilmesi Üzerine Araştırma, Kayseri University, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, Turkey, 2023 - Continues

Memberships / Tasks in Scientific Organizations

ERCİYES ENERJİ DERNEĞİ, Member, 2017 - Continues, Turkey

Scientific Refereeing

International journal of energy studies (Online), Other Indexed Journal, December 2023

International Journal of Automotive Science and Technology, Other Indexed Journal, December 2023

INTERNATIONAL JOURNAL OF ENERGY FOR A CLEAN ENVIRONMENT, Other Indexed Journal, June 2023

Tasks In Event Organizations

Arslan E., The 6th International Conference on Alternative Fuels, Energy & Environment: Future and Challenges (ICAFEE 2023), Scientific Congress, Kayseri, Turkey, Ekim 2023

Kahraman N., Vural E., İlbaş M., Akansu S. O., Albayrak Çeper B., Arslan E., 16th International Combustion Symposium (INCOS2022), Scientific Congress, Aydın, Turkey, Eylül 2022

Akansu S. O., Ünal S., Genç G., Ateş N., Oktay T., Atabanı A., Varadarajan V., Arslan E., 2nd International Conference on Energy, Environment and Storage of Energy (ICEESEN 2022), Scientific Congress, Kayseri, Turkey, Eylül 2022

Arslan E., The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Scientific Congress, Kayseri, Turkey, Ekim 2021

Akansu S. O., Ünal S., Genç G., Ateş N., Oktay T., Arslan E., International Conference on Energy, Environment and Storage of Energy ICEESEN 2020, Scientific Congress, Kayseri, Turkey, Kasım 2020

Kahraman N., Akansu S. O., Yılmaz İ., Albayrak Çeper B., Arslan E., 15th International Combustion Symposium (INCOS2020), Scientific Congress, Kayseri, Turkey, Eylül 2020

Mobility Activity

Improving Competencies and Qualifications, Guest Researcher, Istituto Motori Consiglio Nazionale delle Ricerche, Italy, 2018 - 2018

Metrics

Publication: 29

Citation (WoS): 69

Citation (Scopus): 76

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

16th International Combustion Symposium (INCOS2022) , Attendee, Aydın, Turkey, 2022

2nd International Conference on Energy, Environment and Storage of Energy (ICEESEN 2022), Attendee, Kayseri, Turkey, 2022

The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Attendee, Kayseri, Turkey, 2021

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Attendee, Ankara, Turkey, 2021

International Conference on Energy, Environment and Storage of Energy, ICEESEN 2020, Attendee, Kayseri, Turkey, 2020

15th International Combustion Symposium (INCOS2020), Attendee, Kayseri, Turkey, 2020

22. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'19), Attendee, Kocaeli, Turkey, 2019

III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Attendee, Gaziantep, Turkey, 2018

21. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'17), Attendee, Çorum, Turkey, 2017

6th International Conference on Renewable Fuels Combustion and Fire, Attendee, Nevşehir, Turkey, 2017

9th International Conference on Sustainable Energy&Environmental Protection, Attendee, Kayseri, Turkey, 2016

8th International Conference on Sustainable Energy&Environmental Protection, Attendee, Edinburgh, United Kingdom, 2015

Non Academic Experience

Company, ISISAN ISI SAN. VE TİC. A.Ş., ARGE

Technology Development Zone, Şahittin Aydemir Enerji Sistemleri San. ve Tic. Ltd. Şti., ARGE