

## Prof. SEBAHATTİN ÜNALAN



### Personal Information

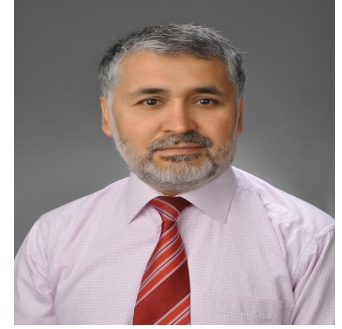
**Office Phone:** [+90 352 207 6666](tel:+903522076666) Extension: 32126

**Fax Phone:** [+90 352 437 5784](tel:+903524375784)

**Email:** [s-unalan@erciyes.edu.tr](mailto:s-unalan@erciyes.edu.tr)

**Web:** <https://avesis.erciyes.edu.tr/s-unalan/>

**Address:** Erciyes Üniversitesi Mühendislik Fakültesi



### International Researcher IDs

ScholarID: poXL0x8AAAAJ

ORCID: 0000-0002-5605-2614

Publons / Web Of Science ResearcherID: AAQ-2238-2021

ScopusID: 6603427938

Yoksis Researcher ID: 9374

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Makina Müh. Abd, Turkey 1989 - 1992

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Makina Müh. Abd, Turkey 1986 - 1989

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makina Müh. Böl, Turkey 1982 - 1986

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, PNE ve ICF FÜZYON REAKTÖRLERİNDE MUHTELİF ÇALIŞMA AKIŞKANLARI İÇİN TRİTYUM ÜRETİMİ ve ENERJİ ABSORBSİYON ÖZELLİKLERİNİN NÖTRONİK ANALİZİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makina Müh. Abd, 1992

Postgraduate, GİRİŞ SICAKLIĞI ISI POMPASIYLA ARTTIRILMIŞ TERMAL ISI DEPOLAMA ÜNİTESİNDE OPTİMUM DEPOLAMA KRİTERLERİNİN BİLGİSAYAR DESTEKLİ ANALİZİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makina Müh. Anabilim Dalı, 1989

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Renewable Energy Systems, Nuclear Energy, Energy storage technologies, Hydrogen Technologies and Fuel Cells , Thermodynamics, Heat and Mass Transfer, Engineering and Technology

## Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2007 - Continues  
Associate Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2001 - 2007  
Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 1993 - 2001  
Research Assistant, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 1988 - 1993

## Academic and Administrative Experience

Erciyes University, 2011 - Continues  
Director of Vocational School, Erciyes University, Kayseri Meslek Yüksekokulu, 2010 - 2012  
Erciyes University, 2010 - 2012  
Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, 2007 - 2010  
Erciyes University, 2007 - 2010

## Courses

Mühendislikte Matematik Metodlar-I, Postgraduate, 2012 - 2013  
Diferansiyel Denklemler, Undergraduate, 2012 - 2013  
Mühendislikte Matematik Metodlar-II, Doctorate, 2012 - 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of H<sub>2</sub> 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)
- II. **Evaluation of hybrid nanoparticles to oxygenated fuel with ethanol and n- butanol on combustion behavior**  
Atelge M., ARSLAN E., KAHRAMAN N., ÜNALAN S.  
Fuel, vol.344, 2023 (SCI-Expanded)
- III. **Thermal fatigue behavior of reinforced concrete column used as heater and energy storage**  
ÖZRAHAT E., DİRİKGİL T., ÜNALAN S.  
Advances in Structural Engineering, vol.26, 2023 (SCI-Expanded)
- IV. **A study on the effects of nanoparticle addition to a diesel engine operating in dual fuel mode**  
ARSLAN E., Atelge M. R., KAHRAMAN N., uenalan 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-Samarae R., Abut S., ÜNALAN S., MOHAMED ATABANI A., KAHRAMAN N., AKANSU S. O., Kaya M., et al.  
Fuel, vol.313, 2022 (SCI-Expanded)
- VI. **Modeling and simulation of co-digestion performance with artificial neural network for prediction of methane production from tea factory waste with co-substrate of spent tea waste**  
Ozarslan S., Abut S., Atelge M. R., Kaya M., ÜNALAN S.  
FUEL, vol.306, 2021 (SCI-Expanded)
- VII. **A Novel Tea factory waste metal-free catalyst as promising supercapacitor electrode for hydrogen production and energy storage: A dual functional material**  
Ozarslan S., Atelge M. R., Kaya M., ÜNALAN S.  
FUEL, vol.305, 2021 (SCI-Expanded)

- VIII. **A double-functional carbon material as a supercapacitor electrode and hydrogen production: Cu-doped tea factory waste catalyst**  
Ozarlan S., Atelge M. R., DEMİR KIVRAK H., HOROZ S., YAVUZ C., Kaya M., Unalan S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.24, pp.28909-28918, 2021 (SCI-Expanded)
- IX. **A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes**  
Atelge M. R., ŞENOL H., Djaafri M., Hansu T. A., Krisa D., MOHAMED ATABANI A., Eskicioglu C., Muratcobanoglu H., ÜNALAN S., Kalloum S., et al.  
SUSTAINABILITY, vol.13, no.20, 2021 (SCI-Expanded)
- X. **Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies**  
Atelge M. R., Mohamed Atabani A., Abut S., Kaya M., Eskicioglu C., Semaan G., Lee C., Yildiz Y. Ş., Ünalán S., Mohanasundaram R., et al.  
BIORESOURCE TECHNOLOGY, vol.322, 2021 (SCI-Expanded)
- XI. **Carbon molecular sieve production from defatted spent coffee ground using ZnCl<sub>2</sub> and benzene for gas purification**  
Kaya M., Atelge M. R., Bekirogullari M., Eskicioglu C., Atabani A., Kumar G., Yıldız Y. Ş., Ünalán S.  
FUEL, vol.277, 2020 (SCI-Expanded)
- XII. **A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery**  
Atelge M., Atabani A., Banu J. R., Krisa D., Kaya M., Eskicioglu C., Kumar G., Lee C., Yildiz Y. Ş., Unalan S., et al.  
FUEL, vol.270, 2020 (SCI-Expanded)
- XIII. **An experimental study on energy-exergy analysis and sustainability index in a diesel engine with direct injection diesel-biodiesel-butanol fuel blends**  
Sarıkoc S., Ors I., ÜNALAN S.  
FUEL, vol.268, 2020 (SCI-Expanded)
- XIV. **A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through methanolysis of sodium borohydride**  
DUMAN F., Atelge M., Kaya M., Atabani A., Kumar G., ŞAHİN U., ÜNALAN S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.23, pp.12755-12765, 2020 (SCI-Expanded)
- XV. **Biogas Production from Organic Waste: Recent Progress and Perspectives**  
Atelge M., Krisa D., Kumar G., Eskicioglu C., Nguyen D. D., Chang S. W., Atabani A., Al-Muhtaseb A. H., Ünalán S.  
Waste and Biomass Valorization, vol.11, pp.1019-1040, 2020 (SCI-Expanded)
- XVI. **Experimental investigation of effects on performance, emissions and combustion parameters of biodiesel–diesel–butanol blends in a direct-injection CI engine**  
Örs İ., Sarıkoç S., Atabani A., Ünalán S.  
Biofuels, vol.11, no.2, pp.121-134, 2020 (SCI-Expanded)
- XVII. **Experimental Study of Hydrogen Addition on Waste Cooking Oil Biodiesel-Diesel-Butanol Fuel Blends in a DI Diesel Engine**  
Sarıkoc S., ÜNALAN S., Ors I.  
BIOENERGY RESEARCH, vol.12, no.2, pp.443-456, 2019 (SCI-Expanded)
- XVIII. **The effects on performance, combustion and emission characteristics of DICI engine fuelled with TiO<sub>2</sub> nanoparticles addition in diesel/biodiesel/n-butanol blends**  
Ors I., Sarıkoc S., Atabani A. I., ÜNALAN S., AKANSU S. O.  
FUEL, vol.234, pp.177-188, 2018 (SCI-Expanded)
- XIX. **Experimental study on an SI engine fuelled by gasoline/acetylene mixtures**  
İlhak M. I., AKANSU S. O., KAHRAMAN N., ÜNALAN S.  
ENERGY, vol.151, pp.707-714, 2018 (SCI-Expanded)
- XX. **Thermal performance of a concrete column as a sensible thermal energy storage medium and a heater**  
Ozrahát E., ÜNALAN S.  
RENEWABLE ENERGY, vol.111, pp.561-579, 2017 (SCI-Expanded)

- XXI. **The concrete columns as a sensible thermal energy storage medium and a heater**  
ÜNALAN S., Ozrahat E.  
HEAT AND MASS TRANSFER, vol.50, no.8, pp.1037-1052, 2014 (SCI-Expanded)
- XXII. **Investigation of heat transfer and pressure drop for various obstacles in a rectangular-sectioned 90 degrees bend**  
Unalan S., Akansu S. O., Konca A.  
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.17, pp.494-511, 2007 (SCI-Expanded)
- XXIII. **Economical and neutronic performance of HYLIFE-II with mixture of 90% flibe+10% UF<sub>4</sub> (or ThF<sub>4</sub>)**  
Unalan S.  
ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.2059-2074, 2004 (SCI-Expanded)
- XXIV. **Power stabilization and temporal performance of a peaceful nuclear explosion reactor with a mixture of 90% flibe+10% UF<sub>4</sub> (or ThF<sub>4</sub>)**  
Unalan S.  
FUSION ENGINEERING AND DESIGN, vol.70, no.3, pp.233-246, 2004 (SCI-Expanded)
- XXV. **Determination of main reactor parameters for flibe (Li<sub>2</sub>BeF<sub>4</sub>) cooled peaceful nuclear explosive reactors (PACER)**  
Unalan S., Akansu S. O.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.29, pp.27-42, 2004 (SCI-Expanded)
- XXVI. **Light and heavy water cooled hybrid reactors for rejuvenation of LWR spent fuels**  
Unalan S., Ayata T., Akansu S. O., ERİŞEN A., BÖLÜKBAŞI A.  
ENERGY CONVERSION AND MANAGEMENT, vol.44, no.16, pp.2567-2587, 2003 (SCI-Expanded)
- XXVII. **Improvement of the inertial fusion energy reactor performance by means of UF<sub>4</sub> and ThF<sub>4</sub>**  
Unalan S., Akansu S. O., SARAÇ H.  
FUSION SCIENCE AND TECHNOLOGY, vol.43, no.2, pp.230-249, 2003 (SCI-Expanded)
- XXVIII. **Neutronic and thermal analysis of a peaceful nuclear explosion reactor**  
Unalan S., Akansu S. O.  
FUSION SCIENCE AND TECHNOLOGY, vol.43, no.1, pp.110-121, 2003 (SCI-Expanded)
- XXIX. **Investigation of the flattened fissile fuel enrichment possibility with a (D, T) driven hybrid blanket cooled by flibe (Li<sub>2</sub>BeF<sub>4</sub>)**  
Akansu S. O., Unalan S.  
ANNALS OF NUCLEAR ENERGY, vol.29, no.3, pp.287-302, 2002 (SCI-Expanded)
- XXX. **Comments on 'Rejuvenation of CANDU Spent Fuel in (D,T) Driven Hybrids Reactors'**  
ÜNALAN S.  
FUSION SCIENCE AND TECHNOLOGY, vol.35, pp.369-370, 1999 (SCI-Expanded)
- XXXI. **Response to comments on "rejuvenation of the CANDU spent fuel in (d-t)-driven hybrid reactors"**  
Unalan S.  
FUSION TECHNOLOGY, vol.35, no.3, pp.369-370, 1999 (SCI-Expanded)
- XXXII. **Improvement of the neutronic performance of the hybrid reactor rejuvenating spent fuels using various moderators**  
Unalan S., Akansu S. O.  
FUSION TECHNOLOGY, vol.34, no.2, pp.109-127, 1998 (SCI-Expanded)
- XXXIII. **Rejuvenation of the CANDU spent fuel in (D-T)-driven hybrid reactors**  
Unalan S.  
FUSION TECHNOLOGY, vol.33, no.4, pp.398-417, 1998 (SCI-Expanded)
- XXXIV. **Rejuvenation of the LWR spent fuel in (D-T) driven hybrid reactors**  
Unalan S.  
FUSION ENGINEERING AND DESIGN, vol.38, no.4, pp.393-416, 1998 (SCI-Expanded)
- XXXV. **Improvement of neutronic performance of a catalyzed (D,D) driven hybrid reactor using various moderators and coolants materials**  
Unalan S., Yapici H., Ozceyhan V., çürüttü i.

- ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.23, pp.35-46, 1998 (SCI-Expanded)
- XXXVI. **NEUTRONIC INVESTIGATION OF A POWER-PLANT USING PEACEFUL NUCLEAR EXPLOSIVES**  
ŞAHİN S., MOİR R. W., UNALAN S.  
FUSION TECHNOLOGY, vol.26, no.4, pp.1311-1325, 1994 (SCI-Expanded)
- XXXVII. **NEUTRONIC INVESTIGATION OF INERTIAL FUSION ENERGY BLANKETS FOR HYLIFE-II AND MAGNETOHYDRODYNAMIC APPLICATIONS**  
ŞAHİN S., MOİR R., LEE J., UNALAN S.  
FUSION TECHNOLOGY, vol.25, no.4, pp.388-397, 1994 (SCI-Expanded)

### Articles Published in Other Journals

- I. **NUMERICAL INVESTIGATION OF NATURAL CONVECTION IN A RECTANGULAR CAVITY BY CFD CODES**  
ÖZRAHAT E., Toprak M., ÜNALAN S.  
Energy, Environment and Storage, vol.3, no.3, pp.115-118, 2023 (Peer-Reviewed Journal)
- II. **Investigation of the Theoretically Potential for Biogas Production from Mucilage in the Marmara Sea**  
ÖZARSLAN S., ATELGE M. R., ÜNALAN S., AKANSU S. O.  
Erciyes Energy Association, vol.2, no.2, pp.24-30, 2022 (Peer-Reviewed Journal)
- III. **A REVIEW FOR ASSESSMENT METHODS OF BLACK TEA PRODUCTION WASTE**  
ÖZARSLAN S., ATELGE M. R., KAYA M., ÜNALAN S.  
INTERNATIONAL JOURNAL OF ENERGY FOR A CLEAN ENVIRONMENT, vol.23, no.1, pp.63-83, 2022 (Scopus)
- IV. **Production of dual functional carbon material from biomass treated with NaOH for supercapacitor and catalyst**  
Özarslan S., Atelge M. R., KAYA M., ÜNALAN S.  
ENERGY STORAGE, vol.3, no.5, 2021 (ESCI)
- V. **Characterization of Ball Milled Al-Al<sub>2</sub>O<sub>3</sub> sub-micron Composites**  
DAĞAŞAN BULUCU E., GERÇEKÇİOĞLU E., ÜNALAN S.  
IOP Conference Series: Materials Science and Engineering, vol.295, no.1, pp.1-14, 2018 (Peer-Reviewed Journal)
- VI. **Characterization of Al Matrix SiC Reinforced Sub-Micron Composites Produced by Mechanical Alloying**  
DAĞAŞAN BULUCU E., GERÇEKÇİOĞLU E., ÜNALAN S.  
Journal of Powder Metallurgy & Mining, vol.6, no.1, pp.1-6, 2017 (Peer-Reviewed Journal)
- VII. **Transient Thermal Stress Analyses of Concrete Columns as a Sensible Thermal Energy Storage Medium and a Heater**  
ÜNALAN S., özrahat e., DAĞAŞAN BULUCU E.  
International Journal of Science and Engineering Investigations, vol.6, no.60, pp.58-67, 2017 (Peer-Reviewed Journal)
- VIII. **A Theoretical approach for predicting transient air temperature in an intake manifold preheater for a CAI engine**  
Ünalán S., Özarslan S., Albayrak Çeper B., Özrahat E.  
International Journal of Innovative Studies in Sciences and Engineering Technology, vol.2, no.12, pp.12-19, 2016 (Peer-Reviewed Journal)
- IX. **Decrease of CANDU Spent Nuclear Waste Inventories in Fusion-Fission (Hybrids) Reactors**  
ŞAHİN S., ÜNALAN S., YAPICI H.  
International journal of Energy-Environment-Economics, vol.4, pp.67-97, 1996 (Peer-Reviewed Journal)
- X. **Çeşitli Moderatör Malzemelerinin (D,T) Füzyon Nötronları Karşısında Nötronik Performansı**  
ÜNALAN S., çürüttü i., ÖZCEYHAN V.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.11, pp.337-349, 1996 (Peer-Reviewed Journal)
- XI. **Barış Amaçlı Patlamaların Gerçekleştirdiği Bir Reaktör Tesisinde Nükleer Silahların Elektrik Enerjisine Dönüştürülmesi**

## Refereed Congress / Symposium Publications in Proceedings

- I. **A STUDY ON THE NANOPARTICLE CONTRIBUTION IN A DUAL FUEL DIESEL ENGINE**  
ARSLAN E., Atelge M. R., KAHRAMAN N., ÜNALAN S., ALBAYRAK ÇEPER B.  
16th International Combustion Symposium (INCOS 2022 ), Aydın, Turkey, 08 September 2022
- II. **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., ÜNALAN S., Kaushal R.  
ICEESEN 2022, Kayseri, Turkey, 01 September 2022, pp.301-304
- III. **Experimental Investigation of the Effects of Adding H<sub>2</sub>/CH<sub>4</sub> Mixture to the Engine Fueled with CNT Additive Diesel Fuel**  
ARSLAN E., ATELGE M. R., KAHRAMAN N., ÜNALAN S.  
The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Kayseri, Turkey, 16 - 18 October 2021
- IV. **Effect of Modified Fuel with Nanoparticle and Alcohols Blend on Combustion Behavior**  
ATELGE M. R., ARSLAN E., ÜNALAN S., ATABANI A. M., KAHRAMAN N., AKANSU S. O.  
The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Kayseri, Turkey, 16 October 2021
- V. **A Dual Functional Tea Factory Waste Supported Cu Material As High Performance Supercapacitor Electrode and Hydrogen Production Catalyst**  
ÖZARSLAN S., ATELGE M. R., KAYA M., ÜNALAN S.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 05 March 2021
- VI. **Production of Tea Factory Waste Treated with NaOH As A Dual Material: Its Application As Supercapacitor Electrode and Sodium Borohydride Methanolysis Catalyst**  
ÖZARSLAN S., ATELGE M. R., KAYA M., ÜNALAN S.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 05 March 2021
- VII. **Investigation on Combustion Characteristics of a Diesel Engine Fueled with Diesel, Biogas, and MCNT**  
ATELGE M. R., ARSLAN E., ABUT S., AKANSU S. O., ATABANI A. M., KAHRAMAN N., ÜNALAN S.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 05 March 2021
- VIII. **EFFECT OF ADDING CARBON NANOTUBE ON THE COMBUSTION OF DIESEL AND DIESEL-NATURAL GAS MIXTURE**  
Arslan E., Atelge M. R., Kahraman N., Ünalın 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
- IX. **ANAEROBIC CO-DIGESTION OF DEFATTED SPENT COFFEE GROUNDS WITH DIFFERENT WASTE SUBSTRATE FOR BIOGAS PRODUCTION**  
ATELGE M. R., Abdulaziz A., ABUT S., KAYA M., Eskicioglu C., Kumar G., Lee C., YILDIZ Y. Ş., ÜNALAN S., Mohanasundaram R., et al.  
Proceedings of INCOS2020, 17 - 19 September 2020
- X. **TEA FACTORY WASTE CATALYST TREATED WITH ACETIC ACID FOR HYDROGEN GENERATION THROUGH METHANOLYSIS OF SODIUM BOROHYDRIDE**  
Özarslan S., ATELGE M. R., KAYA M., ÜNALAN S.  
Proceedings of INCOS 2020, Kayseri, Turkey, 17 - 19 September 2020
- XI. **ANAEROBIC DIGESTION OF TEA FACTORY WASTE AND SPENT TEA WASTE EXPERIMENTAL AND KINETIC MODELING STUDIES**  
Özarslan S., ABUT S., ATELGE M. R., KAYA M., ÜNALAN S.

Proceedings of INCOS2020, 17 - 19 September 2020

- XII. **An Experimental Investigation Of The Gasoline-Methanol Fuel Blend Effects On The Engine**  
SARIKOÇ S., ÜNALAN S., İLHAK M. İ.  
5TH International Conference on Advances in Mechanical Engineering (ICAME2019), 17 - 19 December 2019
- XIII. **Effects Of Hydrogen Addition On Energy And Exergy Analysis Of A Diesel Engine Operating With Diesel**  
SARIKOÇ S., ÜNALAN S.  
5TH International Conference on Advances in Mechanical Engineering (ICAME2019), 17 - 19 December 2019
- XIV. **Energy, exergy analyses and combustion characteristics of a DI diesel engine fuelled with diesel-biodiesel blend**  
SARIKOÇ S., ÖRS İ., ÜNALAN S.  
14th International Combustion Symposium (INCOS2018), Karabük, Turkey, 25 - 27 April 2018, vol.1, pp.145-150
- XV. **Characterization of Ball Milled Al-Al<sub>2</sub>O<sub>3</sub> sub-micron Composites**  
Dagasan E., GERÇEKÇİOĞLU E., ÜNALAN S.  
9th International Conference on Tribology (Balkantrib), Turkey, 13 - 15 September 2017, vol.295
- XVI. **Biogas production from organic waste: recent progress and perspectives**  
ATELGE M. R., MOHAMED A. E. A., Kumar G., ÜNALAN S.  
The 2nd International Conference on Alternative Fuels: Futures and Challenges (ICAFE17), Daegu, South Korea, 23 - 25 October 2017
- XVII. **Investigation of Performance and Emissions in a SI Engine Fuelled by Gasoline - Acetylene Mixtures**  
İlhak M. İ., AKANSU S. O., KAHRAMAN N., ÜNALAN S.  
10 th international Sustainable Energy Environment Protection, Bled, Slovenia, 27 - 30 June 2017, pp.117-127
- XVIII. **The Effect On Performance And Emission Parameters Of Diesel- Biodiesel-Butanol Blend**  
SARIKOÇ S., Örs İ., Atabani A. I., ÜNALAN S.  
6th International Conference on Renewable Fuels, Combustion and Fire (FCE`17), Nevşehir, Turkey, 18 - 21 May 2017, vol.6, pp.1
- XIX. **Biomethane Recovery From Anaerobic Co- Digestion of Sewage Sludge and Waste Coffee**  
Atelge M., Atabani A. I., Kumar G., ÜNALAN S.  
6th International Conference on Renewable Fuels, Combustion and Fire (FCE`17), Nevşehir, Turkey, 18 - 21 May 2017, vol.6, pp.1
- XX. **Using in a CI engine of Biodiesel Production from Waste Cooking Oil**  
Örs İ., SARIKOÇ S., MOHAMED ATABANI A. I., ÜNALAN S.  
6 th International Conference on Renewable Fuels Combustion and Fire, Nevşehir, Turkey, 18 - 21 May 2017, pp.45-50
- XXI. **STUDY ON PHYSICAL AND CHEMICAL PROPERTIES OF BIODIESEL- BUTANOL-DIESEL OBTAINED FROM WASTE COOKING OIL**  
SARIKOÇ S., MOHAMED ATABANI A. I., ÜNALAN S.  
The 1st International Conference on Alternative Fuels: Future and Challenges, Kayseri, Turkey, 1 - 04 December 2016, vol.1, no.1, pp.14
- XXII. **Status of Alternative Biofuels In Turkey, Past and Future Perspectives**  
SARIKOÇ S., MOHAMED ATABANI A. I., ÜNALAN S.  
9th INTERNATIONAL CONFERENCE ON SUSTAINABLEENERGYAND ENVIRONMENTAL PROTECTION, Kayseri, Turkey, 22 - 25 September 2016, vol.9, no.9, pp.569
- XXIII. **Numerical Investigation of Double Pane Window: Effect of Window Height and Air Thickness on Heat Transfer**  
özrahat e., ÜNALAN S.  
9th INTERNATIONAL CONFERENCE ON SUSTAINABLEENERGYAND ENVIRONMENTAL PROTECTION, Kayseri, Turkey, 22 - 25 September 2016, vol.9, no.9, pp.185-194
- XXIV. **Kontrollü Otomatik Ateşlemeli Bir SI Motor için Emme Havası Isıtıcı Tasarımı,**  
Özarslan S., Ünalın S., Özrahat E., Albayrak Çeper B.  
20. Isı Bilimi ve Tekniği Kongresi (ULIBTK'15), Balıkesir, Turkey, 2 - 05 September 2015, pp.18-25

- XXV. **CAI yanmalı bir motorda EGR oranının etkisinin sayısal olarak incelenmesi**  
YILDIZ M., ALBAYRAK ÇEPER B., AKANSU S. O., ÜNALAN S.  
19.Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1188-1193
- XXVI. **Katalitik Konvertörün Egzoz Emisyonlarına Etkisi**  
KAHRAMAN N., AKANSU S. O., ÜNALAN S., AYBALA U.  
Yeni Ve Yenilenebilir Enerji Kaynakları Sempozyumu, Turkey, 7 - 09 September 2005
- XXVII. **Integral Data for (D,T) Fusion Neutrons in Infinite Medium**  
ŞAHİN S., YAPICI H., ÜNALAN S., ÖZCEYHAN V.  
Twelfth Topical Meeting on the Technology of Fusion Energy, United States Of America, 1 - 04 December 1996, pp.195
- XXVIII. **Rejuvenation of LWR Spent Fuel in Fusion Blanket**  
ŞAHİN S., ÜNALAN S., YAPICI H.  
Twelfth Topical Meeting on the Technology of Fusion Energy, United States Of America, 1 - 04 December 1996, pp.259

## Supported Projects

ÜNALAN S., SARIKOÇ S., YILDIZ M., FİL H. E., Project Supported by Higher Education Institutions, 6th International Conference on Renewable Fuels Combustion and Fire (FCE), 2017 - 2017

ÜNALAN S., MOHAMED A., SARIKOÇ S., ABDELRAHEEM ELHAJ H. F., EFE Ş., CHAN S., RASHİD U., TABATABAEİ M., ÖRS İ., Project Supported by Higher Education Institutions, Biyodizel yakıtlı CI motorun yanma ve emisyonlarının karakteristiği motor performansı katkı maddelerinin fiziksel ve kimyasal özellikleri üzerine etkileri, 2015 - 2017

ATABANI A., ABDELRAHEEM ELHAJ H. F., SARIKOÇ S., ÜNALAN S., TRIWAHYONO S., EFE Ş., ÖRS İ., Project Supported by Higher Education Institutions, Implementation of a small scale biodiesel production project from waste for the state of Kayseri Kayseri bölgesi atıklarından küçük ölçekli biyodizel üretim uygulama projesi, 2015 - 2017

ÜNALAN S., ÖZRAHAT E., Project Supported by Higher Education Institutions, BİR ISITICI VE BİR TERMAL ENERJİ DEPOSU OLARAK BETON KOLONLARIN TERMAL VE MEKANİK PERFORMANSININ ARAŞTIRILMASI, 2014 - 2017

AKANSU S. O., FİL H. E., SARIKOÇ S., ÜNALAN S., YILDIZ M., Project Supported by Higher Education Institutions, 9th International Conference on Sustainable Energy Environmental Protection SEEP2016, 2016 - 2016

ÜNALAN S., DAĞAŞAN E., Project Supported by Higher Education Institutions, ALÜMİNYUM MATRİSLİ SERAMİK TAKVİYELİ MİKRON ALTI KOMPOZİTLERİN MEKANİK ALAŞIMLANDIRMA YOLU İLE ÜRETİM VE KARAKTERİZASYONU, 2011 - 2015

ÜNALAN S., ÖZRAHAT E., Project Supported by Higher Education Institutions, BETON KOLONLARIN TERMAL ENERJİ DEPOLAMA PERFORMANSININ ANALİZİ, 2009 - 2013

ÜNALAN S., Project Supported by Higher Education Institutions, HİDROJEN ENERJİSİ İLE ÇALIŞAN ARAÇ PROJESİ, 2007 - 2007

## Metrics

Publication: 77  
Citation (WoS): 905  
Citation (Scopus): 964  
H-Index (WoS): 15  
H-Index (Scopus): 14

## Non Academic Experience

Yuvam Koll Şirketi