

## Prof. Dr. SEBAHATTİN ÜNALAN



### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 9374

### Eğitim Bilgileri

Doktora, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makina Müh. Abd, Türkiye 1989 - 1992  
Yüksek Lisans, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makina Müh. Abd, Türkiye 1986 - 1989  
Lisans, Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Müh. Böl, Türkiye 1982 - 1986

### Yabancı Diller

İngilizce, B1 Orta

### Yaptığı Tezler

Doktora, 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  
Yüksek Lisans, 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

### Araştırma Alanları

Makina Mühendisliği, Enerji, Akışkanlar Mekaniği, Diğer Yenilenebilir Enerji Sistemleri, Nükleer Enerji, Enerji depolama teknolojileri, Hidrojen teknolojileri ve yakıt hücreleri, Termodinamik, Isı ve Madde Transferi, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Prof. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2007 - Devam Ediyor

Doç. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2001 - 2007

Yrd. Doç. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 1993 - 2001

Araştırma Görevlisi, Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 1988 - 1993

## Akademik İdari Deneyim

Erciyes Üniversitesi, 2011 - Devam Ediyor

MYO Müdürü, Erciyes Üniversitesi, Kayseri Meslek Yüksekokulu, 2010 - 2012

Erciyes Üniversitesi, 2010 - 2012

Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, 2007 - 2010

Erciyes Üniversitesi, 2007 - 2010

## Verdiği Dersler

Mühendislikte Matematik Metodlar-I, Yüksek Lisans, 2012 - 2013

Diferansiyel Denklemler, Lisans, 2012 - 2013

Mühendislikte Matematik Metodlar-II, Doktora, 2012 - 2013

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigation of a novel Defatted Spent Coffee Ground (DSCG)-supported Ni catalyst for fuel cell and supercapacitor applications**  
Hansu T. A., Al-Samaraae R., Atelge M., Kaya M., Kıvrak H. D., Bogrekci I., YILDIZ Y. Ş., AKANSU S. O., ÜNALAN S., ATABANI A.  
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- II. **Investigation of H<sub>2</sub> enrichment of ternary blended fuel modified with graphene nanoplate on cycle-by-cycle variations**  
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- III. **EXAMINATION OF THE EFFECT ON THE ENGINE OF DIESEL-NANOPARTICLE MIXTURE WITH NATURAL GAS ADDITION**  
Arslan E., Atelge M. R., Kahraman N., Ünalın S., Albayrak Çeper B.  
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- IV. **Evaluation of hybrid nanoparticles to oxygenated fuel with ethanol and n- butanol on combustion behavior**  
Atelge M., ARSLAN E., KAHRAMAN N., ÜNALAN S.  
Fuel, cilt.344, 2023 (SCI-Expanded)
- V. **Thermal fatigue behavior of reinforced concrete column used as heater and energy storage**  
ÖZRAHAT E., DİRİKGİL T., ÜNALAN S.  
Advances in Structural Engineering, cilt.26, 2023 (SCI-Expanded)
- VI. **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, cilt.326, 2022 (SCI-Expanded)
- VII. **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., ÜNALAN S., MOHAMED ATABANI A., KAHRAMAN N., AKANSU S. O., Kaya M., et al.

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- VIII. **A double-functional carbon material as a supercapacitor electrode and hydrogen production: Cup-doped tea factory waste catalyst**  
Ozarslan S., Atelge M. R., DEMİR KIVRAK H., HOROZ S., YAVUZ C., Kaya M., Unalan S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.24, ss.28909-28918, 2021 (SCI-Expanded)
- IX. **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.  
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- X. **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, cilt.305, 2021 (SCI-Expanded)
- XI. **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, cilt.13, sa.20, 2021 (SCI-Expanded)
- XII. **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, cilt.322, 2021 (SCI-Expanded)
- XIII. **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.  
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- XIV. **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.  
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- XV. **An experimental study on energy-exergy analysis and sustainability index in a diesel engine with direct injection diesel-biodiesel-butanol fuel blends**  
Sarikoc S., Ors I., ÜNALAN S.  
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- XVI. **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, cilt.45, sa.23, ss.12755-12765, 2020 (SCI-Expanded)
- XVII. **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.  
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- XVIII. **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.  
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- XIX. **Experimental Study of Hydrogen Addition on Waste Cooking Oil Biodiesel-Diesel-Butanol Fuel Blends in a DI Diesel Engine**  
Sarikoc S., ÜNALAN S., Ors I.  
BIOENERGY RESEARCH, cilt.12, sa.2, ss.443-456, 2019 (SCI-Expanded)
- XX. **The effects on performance, combustion and emission characteristics of DICl engine fuelled with TiO<sub>2</sub> nanoparticles addition in diesel/biodiesel/n-butanol blends**

- Ors I, Sarikoc S., Atabani A. I., ÜNALAN S., AKANSU S. O.  
FUEL, cilt.234, ss.177-188, 2018 (SCI-Expanded)
- XXI. **Experimental study on an SI engine fuelled by gasoline/acetylene mixtures**  
İlhak M. I., AKANSU S. O., KAHRAMAN N., ÜNALAN S.  
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- XXII. **Thermal performance of a concrete column as a sensible thermal energy storage medium and a heater**  
Ozrahhat E., ÜNALAN S.  
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ÜNALAN S., Ozrahhat E.  
HEAT AND MASS TRANSFER, cilt.50, sa.8, ss.1037-1052, 2014 (SCI-Expanded)
- XXIV. **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, cilt.17, ss.494-511, 2007 (SCI-Expanded)
- XXV. **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, cilt.45, ss.2059-2074, 2004 (SCI-Expanded)
- XXVI. **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.  
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- XXVII. **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, cilt.29, ss.27-42, 2004 (SCI-Expanded)
- XXVIII. **Light and heavy water cooled hybrid reactors for rejuvenation of LWR spent fuels**  
Unalan S., Ayata T., Akansu S. O., ERİŞEN A., BÖLÜKBAŞI A.  
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- XXIX. **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, cilt.43, sa.2, ss.230-249, 2003 (SCI-Expanded)
- XXX. **Neutronic and thermal analysis of a peaceful nuclear explosion reactor**  
Unalan S., Akansu S. O.  
FUSION SCIENCE AND TECHNOLOGY, cilt.43, sa.1, ss.110-121, 2003 (SCI-Expanded)
- XXXI. **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, cilt.29, sa.3, ss.287-302, 2002 (SCI-Expanded)
- XXXII. **Comments on 'Rejuvenation of CANDU Spent Fuel in (D,T) Driven Hybrids Reactors'**  
ÜNALAN S.  
FUSION SCIENCE AND TECHNOLOGY, cilt.35, ss.369-370, 1999 (SCI-Expanded)
- XXXIII. **Improvement of the neutronic performance of the hybrid reactor rejuvenating spent fuels using various moderators**  
Unalan S., Akansu S. O.  
FUSION TECHNOLOGY, cilt.34, sa.2, ss.109-127, 1998 (SCI-Expanded)
- XXXIV. **Rejuvenation of the CANDU spent fuel in (D-T)-driven hybrid reactors**  
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- XXXV. **Rejuvenation of the LWR spent fuel in (D-T) driven hybrid reactors**  
Unalan S.  
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- XXXVI. **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, cilt.23, ss.35-46, 1998 (SCI-Expanded)
- XXXVII. **NEUTRONIC INVESTIGATION OF A POWER-PLANT USING PEACEFUL NUCLEAR EXPLOSIVES**  
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- XXXVIII. **NEUTRONIC INVESTIGATION OF INERTIAL FUSION ENERGY BLANKETS FOR HYLIFE-II AND MAGNETOHYDRODYNAMIC APPLICATIONS**  
ŞAHİN S., MOİR R., LEE J., UNALAN S.  
FUSION TECHNOLOGY, cilt.25, sa.4, ss.388-397, 1994 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **NUMERICAL INVESTIGATION OF NATURAL CONVECTION IN A RECTANGULAR CAVITY BY CFD CODES**  
ÖZRAHAT E., Toprak M., ÜNALAN S.  
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- 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, cilt.2, sa.2, ss.24-30, 2022 (Hakemli Dergi)
- 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, cilt.23, sa.1, ss.63-83, 2022 (Scopus)
- IV. **Production of dual functional carbon material from biomass treated with NaOH for supercapacitor and catalyst**  
Ozarslan S., Atelge M. R., KAYA M., ÜNALAN S.  
ENERGY STORAGE, cilt.3, sa.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, cilt.295, sa.1, ss.1-14, 2018 (Hakemli Dergi)
- 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, cilt.6, sa.1, ss.1-6, 2017 (Hakemli Dergi)
- 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, cilt.6, sa.60, ss.58-67, 2017 (Hakemli Dergi)
- 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, cilt.2, sa.12, ss.12-19, 2016 (Hakemli Dergi)
- IX. **Decrease of CANDU Spent Nuclear Waste Inventories in Fusion-Fission (Hybrids) Reactors**  
ŞAHİN S., ÜNALAN S., YAPICI H.  
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- X. **Çeşitli Moderatör Malzemelerinin (D,T) Füzyon Nötronları Karşısında Nötronik Performansı**

ÜNALAN S., çürüttü i, ÖZCEYHAN V.

ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, cilt.11, ss.337-349, 1996 (Hakemli Dergi)

**XI. Barış Amaçlı Patlamaların Gerçekleştirildiği Bir Reaktör Tesisinde Nükleer Silahların Elektrik Enerjisine Dönüştürülmesi**

ÜNALAN S., ÖZCEYHAN V., çürüttü i.

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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- 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, Türkiye, 08 Eylül 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, Türkiye, 01 Eylül 2022, ss.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.  
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- 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, Türkiye, 16 Ekim 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, Türkiye, 05 Mart 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, Türkiye, 05 Mart 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.  
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- 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, Türkiye, 5 - 07 Mart 2021, cilt.1, ss.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 Eylül 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.

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- 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 Eylül 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 Aralık 2019
- XIII. **Effects Of Hydrogen Addition On Energy And Exergy Analysis Of A Diesel Engine Operating With Diesel**  
SARIKOÇ S., ÜNALAN S.  
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- 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, Türkiye, 25 - 27 Nisan 2018, cilt.1, ss.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), Türkiye, 13 - 15 Eylül 2017, cilt.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, Güney Kore, 23 - 25 Ekim 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, Slovenya, 27 - 30 Haziran 2017, ss.117-127
- XVIII. **The Effect On Performance And Emission Parameters Of Diesel- Biodiesel-Butanol Blend**  
SARIKOÇ S., Örs İ., Atabani A. I., ÜNALAN S.  
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- 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, Türkiye, 18 - 21 Mayıs 2017, cilt.6, ss.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, Türkiye, 18 - 21 Mayıs 2017, ss.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.  
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