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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

MYO Müdürü, Erciyes Üniversitesi, Kayseri Meslek Yüksekokulu, 2010 - 2012
Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, 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. **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., Kriş D., Al-Samarrae R., Abut S., ÜNALAN S., MOHAMED ATABANI A., KAHRAMAN N., AKANSU S. O. , Kaya M., et al.
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- II. **A Novel Tea factory waste metal-free catalyst as promising supercapacitor electrode for hydrogen production and energy storage: A dual functional material**
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- III. **A double-functional carbon material as a supercapacitor electrode and hydrogen production: Cu-doped tea factory waste catalyst**
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- IV. **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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- V. **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. , Kriş D., MOHAMED ATABANI A., Eskicioglu C., Muratcobanoglu H., ÜNALAN S., Kalloum S., et al.
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- VI. **Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies**
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- VII. **Carbon molecular sieve production from defatted spent coffee ground using ZnCl₂ and benzene for gas purification**
Kaya M., Atelge M. R. , Bekirogullari M., Eskicioglu C., Atabani A., Kumar G., Yıldız Y. Ş. , Ünal S.
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- VIII. **A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery**

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- IX. **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.
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- X. **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.
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- XI. **Biogas Production from Organic Waste: Recent Progress and Perspectives**
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- XII. **Experimental investigation of effects on performance, emissions and combustion parameters of biodiesel–diesel–butanol blends in a direct-injection CI engine**
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- XIII. **Experimental Study of Hydrogen Addition on Waste Cooking Oil Biodiesel-Diesel-Butanol Fuel Blends in a DI Diesel Engine**
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- XIV. **The effects on performance, combustion and emission characteristics of DICI engine fuelled with TiO₂ nanoparticles addition in diesel/biodiesel/n-butanol blends**
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- XV. **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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- XVI. **Thermal performance of a concrete column as a sensible thermal energy storage medium and a heater**
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- XVII. **The concrete columns as a sensible thermal energy storage medium and a heater**
ÜNALAN S., Ozrahát E.
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- XVIII. **Investigation of heat transfer and pressure drop for various obstacles in a rectangular-sectioned 90 degrees bend**
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- XIX. **Economical and neutronic performance of HYLIFE-II with mixture of 90% flibe+10% UF₄ (or ThF₄)**
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ENERGY CONVERSION AND MANAGEMENT, cilt.45, ss.2059-2074, 2004 (SCI-Expanded)
- XX. **Power stabilization and temporal performance of a peaceful nuclear explosion reactor with a mixture of 90% flibe+10% UF₄ (or ThF₄)**
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- XXI. **Determination of main reactor parameters for flibe (Li₂BeF₄) 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)

- XXII. **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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- XXIII. **Improvement of the inertial fusion energy reactor performance by means of UF₄ and ThF₄**
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- XXIV. **Neutronic and thermal analysis of a peaceful nuclear explosion reactor**
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- XXV. **Investigation of the flattened fissile fuel enrichment possibility with a (D, T) driven hybrid blanket cooled by flibe (Li₂BeF₄)**
Akansu S. O. , Unalan S.
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- XXVI. **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)
- XXVII. **Response to comments on "rejuvenation of the CANDU spent fuel in (d-t)-driven hybrid reactors"**
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- XXXI. **Improvement of neutronic performance of a catalyzed (D,D) driven hybrid reactor using various moderators and coolants materials**
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- XXXII. **NEUTRONIC INVESTIGATION OF A POWER-PLANT USING PEACEFUL NUCLEAR EXPLOSIVES**
ŞAHİN S., MOİR R. W. , UNALAN S.
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- XXXIII. **NEUTRONIC INVESTIGATION OF INERTIAL FUSION ENERGY BLANKETS FOR HYLIFE-II AND MAGNETOHYDRODYNAMIC APPLICATIONS**
ŞAHİN S., MOİR R., LEE J., UNALAN S.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **A REVIEW FOR ASSESSMENT METHODS OF BLACK TEA PRODUCTION WASTE**
Özarlan S., Atelge M. R. , Kaya M., Ünal S.
International Journal of Energy for a Clean Environment, cilt.33, sa.1, ss.63-83, 2022 (Scopus)
- II. **Production of dual functional carbon material from biomass treated with NaOH for supercapacitor and catalyst**
Özarlan S., Atelge M. R. , KAYA M., ÜNALAN S.
ENERGY STORAGE, 2021 (ESCI)

- III. **Characterization of Ball Milled Al-Al₂O₃ 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)
- IV. **Characterization of Al Matrix SiC Reinforced Sub-Micron Composites Produced by Mechanical Alloying**
DAĞAŞAN BULUCU E., GERÇEKÇİOĞLU E., ÜNALAN S.
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- V. **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)
- VI. **A Theoretical approach for predicting transient air temperature in an intake manifold preheater for a CAI engine**
ÜNALAN S., ÖZARSLAN S., ALBAYRAK ÇEPER B., ÖZRAHAT E.
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- VII. **Decrease of CANDU Spent Nuclear Waste Inventories in Fusion-Fission (Hybrids) Reactors**
ŞAHİN S., ÜNALAN S., YAPICI H.
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- VIII. **Barış Amaçlı Patlamaların Gerçekleştirildiği Bir Reaktör Tesisinde Nükleer Silahların Elektrik Enerjisine Dönüştürülmesi**
ÜNALAN S., ÖZCEYHAN V., ÇÜRÜTTÜ İ.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, cilt.11, ss.323-337, 1996 (Hakemli Dergi)
- IX. **Çeşitli Moderatör Malzemelerinin (D,T) Füzyon Nötronları Karşısında Nötronik Performansı**
ÜNALAN S., ÇÜRÜTTÜ İ., ÖZCEYHAN V.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, cilt.11, ss.337-349, 1996 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **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., ÜNALAN S.
The 5th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2021): Future and Challenges, Kayseri, Türkiye, 16 - 18 Ekim 2021
- II. **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
- III. **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
- IV. **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, Türkiye, 05 Mart 2021
- V. **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.

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- VI. **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, Türkiye, 5 - 07 Mart 2021, cilt.1, ss.298-303
- VII. **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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- VIII. **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.
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- 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.
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- X. **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 Aralık 2019
- XI. **An Experimental Investigation Of The Gasoline-Methanol Fuel Blend Effects On The Engine**
SARIKOÇ S., ÜNALAN S., İLHAK M. İ.
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- XII. **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 Sysposium (INCOS2018), Karabük, Türkiye, 25 - 27 Nisan 2018, cilt.1, ss.145-150
- XIII. **Characterization of Ball Milled Al-Al₂O₃ sub-micron Composites**
Dagasan E., GERÇEKÇİOĞLU E., ÜNALAN S.
9th International Conference on Tribology (Balkantrib), Türkiye, 13 - 15 Eylül 2017, cilt.295
- XIV. **Biogas production from organic waste: recent progress and perspectives**
ATELGE M. R. , MOHAMED A. E. A. , Kumar G., ÜNALAN S.
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- XV. **Investigation of Performance and Emissions in a SI Engine Fuelled by Gasoline - Acetylene Mixtures**
İlhak M. İ. , AKANSU S. O. , KAHRAMAN N., ÜNALAN S.
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- XVI. **Using in a CI engine of Biodiesel Production from Waste Cooking Oil**
Örs İ., SARIKOÇ S., MOHAMED ATABANI A. I. , ÜNALAN S.
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- XVII. **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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- XVIII. **Biomethane Recovery From Anaerobic Co- Digestion of Sewage Sludge and Waste Coffee**
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- XIX. 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, Türkiye, 1 - 04 Aralık 2016, cilt.1, sa.1, ss.14
- XX. 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, Türkiye, 22 - 25 Eylül 2016, cilt.9, sa.9, ss.185-194
- XXI. 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, Türkiye, 22 - 25 Eylül 2016, cilt.9, sa.9, ss.569
- XXII. Kontrollü Otomatik Ateşlemeli Bir SI Motor için Emme Havası Isıtıcı Tasarımı,**
Özarlan S., Ünalán S., Özrahat E., Albayrak Çeper B.
20. Isı Bilimi ve Tekniği Kongresi (ULIBTK'15), Balıkesir, Türkiye, 2 - 05 Eylül 2015, ss.18-25
- XXIII. 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, Türkiye, 9 - 12 Eylül 2013, ss.1188-1193
- XXIV. Katalitik Konvertörün Egzoz Emisyonlarına Etkisi**
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Yeni Ve Yenilenebilir Enerji Kaynakları Sempozyumu, Türkiye, 7 - 09 Eylül 2005
- XXV. Rejuvenation of LWR Spent Fuel in Fusion Blanket**
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Twelfth Topical Meeting on the Technology of Fusion Energy, Amerika Birleşik Devletleri, 1 - 04 Aralık 1996, ss.259
- XXVI. Integral Data for (D,T) Fusion Neutrons in Infinite Medium**
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- ÜNALAN S., SARIKOÇ S., YILDIZ M., FİL H. E. , Yükseköğretim Kurumları Destekli Proje, 6th International Conference on Renewable Fuels Combustion and Fire (FCE), 2017 - 2017
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