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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2014 - Devam Ediyor

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 2010 - 2014

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Makina Mühendisliği, Enerji, Alternatif Enerji Kaynakları, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, -, 2012 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The modeling and analysis of transesterification reaction conditions in the selection of optimal biodiesel yield and viscosity**
Gülüm M., Yesilyurt M. K. , Bilgin A.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.27, ss.10351-10366, 2020 (SCI İndekslerine Giren Dergi)
- II. **Measurement and estimation of densities of different biodiesel-diesel-alcohol ternary blends**
Gülüm M., Onay F. K. , Bilgin A.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, cilt.38, 2019 (SCI İndekslerine Giren Dergi)
- III. **The performance assessment of cubic spline interpolation and response surface methodology in the mathematical modeling to optimize biodiesel production from waste cooking oil**
Gülüm M., Yesilyurt M. K. , Bilgin A.
FUEL, cilt.255, 2019 (SCI İndekslerine Giren Dergi)
- IV. **Two-dimensional surface models to predict the density of biodiesel-diesel-alcohol ternary blends**
Gülüm M., Bilgin A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI İndekslerine Giren Dergi)
- V. **Mechanical and corrosion properties of brass exposed to waste sunflower oil biodiesel-diesel fuel**

blends

Samuel O. D. , Gülüm M.

CHEMICAL ENGINEERING COMMUNICATIONS, cilt.206, ss.682-694, 2019 (SCI İndekslerine Giren Dergi)

- VI. **Comparison of viscosity prediction capabilities of regression models and artificial neural networks**
Gülüm M., Onay F. K. , Bilgin A.
ENERGY, cilt.161, ss.361-369, 2018 (SCI İndekslerine Giren Dergi)
- VII. **A comprehensive study on measurement and prediction of viscosity of biodiesel-diesel-alcohol ternary blends**
Gülüm M., Bilgin A.
ENERGY, cilt.148, ss.341-361, 2018 (SCI İndekslerine Giren Dergi)
- VIII. **Measurements and empirical correlations in predicting biodiesel-diesel blends' viscosity and density**
Gülüm M., Bilgin A.
FUEL, cilt.199, ss.567-577, 2017 (SCI İndekslerine Giren Dergi)
- IX. **Two-term power models for estimating kinematic viscosities of different biodiesel-diesel fuel blends**
Gülüm M., Bilgin A.
FUEL PROCESSING TECHNOLOGY, cilt.149, ss.121-130, 2016 (SCI İndekslerine Giren Dergi)
- X. **Density, flash point and heating value variations of corn oil biodiesel-diesel fuel blends**
Gülüm M., Bilgin A.
FUEL PROCESSING TECHNOLOGY, cilt.134, ss.456-464, 2015 (SCI İndekslerine Giren Dergi)
- XI. **COMPARISON OF OPTIMUM REACTION PARAMETERS OF CORN OIL BIODIESELS PRODUCED BY USING SODIUM HYDROXIDE (NaOH) AND POTASSIUM HYDROXIDE (KOH)**
Gülüm M., Bilgin A., Cakmak A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.30, ss.503-511, 2015 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Düşük viskoziteli atık kızartma yağı etil esteri üretimi**
Gülüm M., Bilgin A., Cakmak A.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGİSİ, cilt.26, ss.674-682, 2020 (ESCI İndekslerine Giren Dergi)
- II. **OPTIMIZATION OF TRANSESTERIFICATION OF WASTE COOKING OIL WITH METHANOL BY CUBIC SPLINE INTERPOLATION**
Gülüm M., Bilgin A.
SAE International Journal of Fuels and Lubricants, cilt.13, ss.151-165, 2020 (ESCI İndekslerine Giren Dergi)
- III. **Measurement and Prediction of Density and Viscosity of Different Diesel-Vegetable Oil Binary Blends**
Gülüm M., Bilgin A.
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, cilt.23, ss.214-228, 2019 (ESCI İndekslerine Giren Dergi)
- IV. **Effects of various transesterification parameters on the some fuel properties of hazelnut oil methyl ester-**
Bilgin A., Gülüm M.
Energy Procedia, cilt.147, ss.54-62, 2018 (Diğer Kurumların Hakemli Dergileri)
- V. **Density and viscosity measurements for olive oil biodiesel, diesel fuel and n-butyl alcohol ternary blends**
Gülüm M., Bilgin A.
Journal of Clean Energy Technologies, cilt.6, ss.183-187, 2018 (Diğer Kurumların Hakemli Dergileri)
- VI. **Evaluation of Predictive Capabilities of Regression Models and Artificial Neural Networks for Density and Viscosity Measurements of Different Biodiesel-Diesel-Vegetable Oil Ternary Blends**
Gülüm M., Kutlu Onay F., Bilgin A.
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, cilt.22, ss.179-205, 2018 (ESCI İndekslerine Giren Dergi)

- VII. **An Experimental Optimization Research of Methyl and Ethyl Esters Production from Safflower Oil**
Gülüm M., Bilgin A.
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, cilt.22, ss.132-148, 2018 (ESCI İndekslerine Giren Dergi)
- VIII. **Logarithmic and rational models to predict kinematic viscosities of sunflower biodiesel-diesel fuel blends**
Gülüm M., Bilgin A.
International Journal of Advances on Automotive and Technology, cilt.2, ss.20-26, 2018 (Diğer Kurumların Hakemli Dergileri)
- IX. **Production of the lowest viscosity waste cooking oil biodiesel by using ethanol and potassium hydroxide**
Gülüm M., Bilgin A., Cakmak A.
Journal of Clean Energy Technologies, cilt.5, ss.289-293, 2017 (Diğer Kurumların Hakemli Dergileri)
- X. **Viscosity correlation development for corn oil biodiesel-diesel fuel blends**
Gülüm M., Bilgin A.
International Journal of Smart Grid and Clean Energy, cilt.6, ss.165-170, 2017 (Diğer Kurumların Hakemli Dergileri)
- XI. **Determination of densities and viscosities of canola oil biodiesel-diesel fuel-isopropyl alcohol blends**
Gülüm M., Bilgin A.
International Journal of Smart Grid and Clean Energy, cilt.6, ss.177-181, 2017 (Diğer Kurumların Hakemli Dergileri)

Kitap & Kitap Bölümleri

- I. **Temperature Dependence of Densities of Different Biodiesel-Diesel-Alcohol Ternary Blends**
Gülüm M., Bilgin A.
Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), Nicolae Burnete and Bogdan Ovidiu Varga, Editör, Springer Nature Switzerland AG, Zug, ss.225-233, 2018
- II. **Development of Two-Dimensional Models for Estimating Densities of Biodiesel-Diesel-Alcohol Ternary Blends**
Gülüm M., Olusegun David S., Bilgin A.
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- III. **Effects of Temperature and Biodiesel Fraction on Dynamic Viscosities of Commercially Available Diesel Fuels and Its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using KOH**
Gülüm M., Bilgin A.
Exergy for A Better Environment and Improved Sustainability, Fethi Aloui and Ibrahim Dincer, Editör, Springer International Publishing, Zug, ss.83-102, 2018
- IV. **Effects of Temperature and Biodiesel Fraction on Densities of Commercially Available Diesel Fuel and Its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using NaOH**
Bilgin A., Gülüm M.
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- V. **PART 3 Alternative Fuels and Materials, Chapter 3.7 - Regression Models for Predicting Some Important Fuel Properties of Corn Oil Biodiesel-Diesel Fuel Blends**
Bilgin A., Gülüm M.
Exergetic, Energetic and Environmental Dimensions, Dincer I., Colpan C.O., Kizilkan O., Editör, Academic Press, Amsterdam, ss.829-850, 2018
- VI. **PART 3 Alternative Fuels and Materials, Chapter 3.10 - Research on Reaction Parameters About Hazelnut Oil Methyl Ester Production**

Gülüm M., Bilgin A.

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- VII. **Optimization and correlation between the composition and flash point of (biodiesel+diesel), (palm kernel oil+diesel) and (palm kernel oil+diesel) blends (Chapter 5)**
Samuel O. D., Gülüm M.
Advances in Energy Research. Volume 28, Morena J. Acosta, Editör, NOVA Science Publishers Inc., New York, ss.1-24, 2017

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Comparison of models in predicting viscosities of biodiesel-diesel fuel blends**
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8TH INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE (VENICE 2020), 16 - 19 Kasım 2020, ss.1-5
- II. **A Numerical study on the effect of injection pressure and ambient-density on spray penetration of biodiesel and diesel fuel**
Gülüm M., Bilgin A.
8TH INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE (VENICE 2020), Venice, İtalya, 16 - 18 Kasım 2020, ss.1-5
- III. **Comparison of regression models for predicting viscosities of vegetable oil blends with biodiesel or diesel fuel**
Gülüm M., Bilgin A.
ACEER 2020, Acheng, Çin, 20 - 23 Ekim 2020, ss.1-5
- IV. **INVESTIGATION the EFFECT of TEMPERATURE on DENSITIES of CORN OIL (CO)-DIESELFUEL (DF) BLENDS**
Gülüm M., Cakmak A., Bilgin A.
4th International Energy & Engineering Congress, Gaziantep, Türkiye, 24 - 25 Ekim 2019, ss.158-163
- V. **TEMPERATURE DEPENDENT DYNAMIC VISCOSITY OF VEGETABLE OILBIODIESEL BLENDS**
Gülüm M., Cakmak A., Bilgin A.
4th International Energy & Engineering Congress, Gaziantep, Türkiye, 24 - 25 Ekim 2019, ss.152-157
- VI. **The Effects of Transesterification Reaction Parameters on Viscosity of Waste Cooking Oil Biodiesels Produced by Using Potassium Methoxide and Ethanol**
Gülüm M., Bilgin A.
3 rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Türkiye, 19 - 21 Eylül 2019, ss.1077-1082
- VII. **Measurement and Prediction of Dynamic Viscosities of Vegetable Oil-Diesel Fuel Blends**
Gülüm M., Bilgin A.
3 rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Türkiye, 19 - 21 Eylül 2019, ss.1073-1076
- VIII. **Prediction of viscosity of biodiesel-diesel fuel blends using two-dimensional surface models**
Gülüm M., Bilgin A.
1st International Symposium on Automotive Science and Technology, Ankara, Türkiye, 5 - 07 Eylül 2019, ss.1-10
- IX. **Effects of transesterification reaction parameters on viscosities of waste cooking oil methyl esters produced using potassium methoxide**
Gülüm M., Bilgin A.
1st International Symposium on Automotive Science and Technology, Ankara, Türkiye, 5 - 07 Eylül 2019, ss.1-10
- X. **Waste cooking oil ethyl ester production using sodium methoxide**
Gülüm M., Bilgin A.
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- XI. **Production of waste cooking oil methyl ester using sodium methoxide**
Gülüm M., Bilgin A.
Second International Karadeniz Congress of Applied Sciences, Rize, Türkiye, 23 - 25 Ağustos 2019, ss.198-210
- XII. **Measurement and estimation of density of vegetable oil-biodiesel blends**
Gülüm M., Bilgin A.
Second International Karadeniz Congress of Applied Sciences, Rize, Türkiye, 23 - 25 Ağustos 2019, ss.193-197
- XIII. **DENSITY VARIATIONS OF BIODIESEL-DIESEL-ISOPROPANOL TERNARY BLENDS**
Gülüm M., Bilgin A.
4th International Conference on Advances in Mechanical Engineering, İstanbul, Türkiye, 19 - 21 Aralık 2018, ss.1396-1402
- XIV. **Prediction of density of waste cooking oil ethyl ester-diesel-ethanol ternary blends at various temperatures**
Gülüm M., Bilgin A.
4th International Conference on Advances in Mechanical Engineering, İstanbul, Türkiye, 19 - 21 Aralık 2018, ss.1387-1391
- XV. **A parametric experimental study on biodiesel production from corn and hazelnut oils**
Gülüm M., Bilgin A.
4th International Conference on Advances in Mechanical Engineering, İstanbul, Türkiye, 19 - 21 Aralık 2018, ss.1392-1395
- XVI. **Density and Viscosity Changes of Corn Oil Biodiesel-Diesel Fuel Binary Blends**
Gülüm M., Bilgin A.
1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN, Ankara, Türkiye, 8 - 09 Kasım 2018, ss.434-437
- XVII. **Production of Corn and Hazelnut Oil Methyl Esters Using Sodium Hydroxide and Methyl Alcohol**
Gülüm M., Bilgin A.
1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN, Ankara, Türkiye, 8 - 09 Kasım 2018, ss.429-433
- XVIII. **Temperature and Biodiesel Fraction Dependence of Density of Biodiesel-Diesel Fuel Blends**
Gülüm M., Bilgin A.
1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN, Ankara, Türkiye, 8 - 09 Kasım 2018, ss.438-441
- XIX. **Density Variation of Ethyl Ester-Diesel-Butanol Ternary Blends**
Gülüm M., Bilgin A.
1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN, Ankara, Türkiye, 8 - 09 Kasım 2018, ss.442-446
- XX. **An experimental optimization research of methyl and ethyl ester production**
Gülüm M., Bilgin A.
CONNECT 2018, Riga, Letonya, 16 - 18 Mayıs 2018, ss.1-10
- XXI. **Determination of Densities and Viscosities of Canola Oil Biodiesel-Diesel Fuel-Isopropyl Alcohol Blends**
Gülüm M., Bilgin A.
6th International Conference on Clean and Green Energy, Frankfurt, Almanya, 8 - 10 Şubat 2017, ss.39-40
- XXII. **Density and Kinematic Viscosity Variations of Waste Cooking Oil Biodiesel, Diesel Fuel and n-Pentanol Ternary Blends**
Gülüm M., Bilgin A.
İSTANBUL INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE 2017 - ICPAS 2017, İSTANBUL, İstanbul, Türkiye, 4 - 06 Ocak 2017, ss.1-7
- XXIII. **Production of hazelnut oil biodiesel through investigating KOH-catalyzed transesterification reaction parameters**
Gülüm M., Bilgin A.
Proceedings of the 8th International Exergy, Energy and Environmental Symposium, Antalya, Türkiye, 1 - 04 Mayıs

2016, ss.692-698

- XXIV. **Rational and hyperbolic models to estimate kinematic viscosities of hazelnut oil biodiesel-diesel fuel blends**
Gülüm M., Bilgin A.
Proceedings of the 8th International Exergy, Energy and Environmental Symposium, Antalya, Türkiye, 1 - 04 Mayıs 2016, ss.723-729
- XXV. **Determination of transesterification reaction parameters giving the lowest viscosity waste cooking oil biodiesel**
Bilgin A., Gülüm M., Koyuncuoglu I., Naç E., Cakmak A.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Türkiye, 28 - 30 Mayıs 2015, ss.2492-2500
- XXVI. **The effects of temperature and biodiesel fraction on the viscosity of biodiesel-diesel fuel blends**
Bilgin A., Gülüm M.
The European Conference on Sustainability, Energy & the Environment 2014 (ECSEE2014), Brighton, İngiltere, 3 - 06 Temmuz 2014, ss.57-76
- XXVII. **Çeşitli üretim parametrelerinin NaOH kullanılarak üretilen mısır yağı biyodizelinin bazı yakıt özelliklerine etkisi**
Gülüm M., Bilgin A.
OTEKON 2014 7. Otomotiv Teknolojileri Kongresi, Bursa, Türkiye, 26 - 27 Mayıs 2014, ss.152-159

Desteklenen Projeler

Gülüm M., TÜBİTAK Projesi, En düşük viskoziteli atık kızartma yağı biyodizelinin üretimi, sprey özelliklerinin iyileştirilmesi, motor performansı ve egzoz emisyonlarına etkisinin incelenmesi, 2018 - 2019

Gülüm M., Bilgin A., Yükseköğretim Kurumları Destekli Proje, Çeşitli üretim parametrelerinin bazı bitkisel yağlardan üretilen biyodizelin önemli yakıt özelliklerine etkisinin deneysel incelenmesi, 2013 - 2014

Bilimsel Hakemlikler

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Kasım 2020

ACS OMEGA, SCI-E Kapsamındaki Dergi, Kasım 2020

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Kasım 2020

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SN Applied Science, ESCI Kapsamındaki Dergi, Ekim 2020

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SN Applied Science, ESCI Kapsamındaki Dergi, Eylül 2020

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JOURNAL OF KING SAUD UNIVERSITY SCIENCE, SCI-E Kapsamındaki Dergi, Eylül 2020

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Ağustos

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ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Ağustos

2020

Environmental Progress & Sustainable Energy, SCI Kapsamındaki Dergi, Temmuz 2020

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Temmuz

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2020

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2020

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Haziran

2020

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2020

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ACS OMEGA, SCI Kapsamındaki Dergi, Şubat 2020

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ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Kapsamındaki Dergi, Aralık 2019

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Periodica Polytechnica Chemical Engineering, SCI-E Kapsamındaki Dergi, Eylül 2019

SN APPLIED SCIENCES, ESCI Kapsamındaki Dergi, Eylül 2019

The Open Chemical Engineering Journal, Diğer İndekslerce Taranan Dergi, Eylül 2019

ENERGY, SCI Kapsamındaki Dergi, Eylül 2019

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SN Applied Sciences, ESCI Kapsamındaki Dergi, Ağustos 2019

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Propulsion and Power Research, SCI-E Kapsamındaki Dergi, Temmuz 2019
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Industrial & Engineering Chemistry Research, SCI-E Kapsamındaki Dergi, Şubat 2019
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Journal of King Saud University – Science, SCI-E Kapsamındaki Dergi, Nisan 2018
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ENERGY CONVERSION AND MANAGEMENT, SCI-E Kapsamındaki Dergi, Mart 2018
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Kapsamındaki Dergi, Ağustos 2017
International Journal of Applied Microbiology and Biotechnology Research, SCI-E Kapsamındaki Dergi, Temmuz 2017
INTERNATIONAL JOURNAL OF GREEN ENERGY, SCI-E Kapsamındaki Dergi, Mart 2017
ENERGY CONVERSION AND MANAGEMENT, SCI-E Kapsamındaki Dergi, Kasım 2016
Journal Of Chemical And Engineering Data, SCI-E Kapsamındaki Dergi, Kasım 2016
JOURNAL OF KING SAUD UNIVERSITY SCIENCE, SCI-E Kapsamındaki Dergi, Mart 2015
ENERGY CONVERSION AND MANAGEMENT, SCI-E Kapsamındaki Dergi, Mart 2015
Energy Conversion And Management, SCI-E Kapsamındaki Dergi, Ocak 2015

Davetli Kongre ve Sempozyum Faaliyetleri

8TH INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE, Oturum Başkanı, Venice, İtalya, 2020
8TH INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE, Oturum Başkanı, Venice, İtalya, 2020
The 2nd International Conference on Advances in Civil and Ecological Engineering Research , Katılımcı, Acheng, Çin, 2020
4th International Energy & Engineering Congress 2019, Katılımcı, Gaziantep, Türkiye, 2019
3 rd International Conference on Advanced Engineering Technologies (ICADET), Katılımcı, Bayburt, Türkiye, 2019
1st International Symposium on Automotive Science and Technology, Katılımcı, Ankara, Türkiye, 2019
Second International Karadeniz Congress of Applied Sciences, Katılımcı, Rize, Türkiye, 2019
4th International Conference on Advances in Mechanical Engineering, Katılımcı, İstanbul, Türkiye, 2018
1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN, Katılımcı, Ankara, Türkiye, 2018
4th International Congress of Automotive and Transport Engineering (AMMA 2018), Katılımcı, Cluj-Napoca, Romanya, 2018
CONNECT 2018, Katılımcı, Riga, Letonya, 2018
6th International Conference on Clean and Green Energy, Katılımcı, Frankfurt, Almanya, 2017
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE 2017 - ICPAS 2017, Katılımcı, İstanbul, Türkiye, 2017
2nd International Conference on Renewable Energy and Bioenergy, (ICREB 2016), Katılımcı, Constanta, Romanya, 2016
8th International Exergy, Energy and Environmental Symposium, Katılımcı, Antalya, Türkiye, 2016
World Conference on Technology, Innovation and Entrepreneurship, Katılımcı, İstanbul, Türkiye, 2015
The 7th International Exergy, Energy and Environmental Symposium, Katılımcı, Valence, Fransa, 2015
The European Conference on Sustainability, Energy & the Environment, Katılımcı, Brighton, İngiltere, 2014
7. Otomotiv Teknolojileri Kongresi,, Katılımcı, Bursa, Türkiye, 2014

Atıflar

Toplam Atıf Sayısı (WOS):307

h-indeksi (WOS):9

Burslar

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