

Lect. PhD Ahmet Yakın

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HGA-2104-2022

ScopusID: 57142508500

Yoksis Researcher ID: ID : 35729

Education Information

Doctorate, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2017 - 2022

Postgraduate, Van Yüzüncü Yil University, Makine Müh., Turkey 2001 - 2003

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, Turkey 1993 - 1997

Dissertations

Doctorate, ENGINE PERFORMANCE OF SODIUM BORHYDRIDE ADDED ALCOHOL GASOLINE MIXED FUEL IN USING ON A GASOLINE ENGINE AND EXPERIMENTAL INVESTIGATION OF ITS EFFECT ON EXHAUST EMISSIONS, Inonu University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2022

Postgraduate, Karbüratörlü ve Enjeksiyonlu Araçlarda LPG kullanımının Egzoz Emisyonu Açısından Deneysel Olarak İncelenmesi , Van Yüzüncü Yil University, Makine Müh., 2002

Research Areas

Energy, Advanced Energy Technologies, Thermodynamics, Internal Combustion Engines, Thermal Systems, Thermal machines

Academic Titles / Tasks

Lecturer PhD, Van Yüzüncü Yil University, Van Meslek Yüksekokulu, Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü, 2011 - Continues

Courses

Hybrid and Electric Vehicles, Undergraduate, 2022 - 2023

SPARK PLUG IGNITION ENGINE FUEL INJECTION SYSTEM, Associate Degree, 2020 - 2021

Termodinamik, Associate Degree, 2010 - 2011

Hava Kirliliği ve Kontrol Sis., Associate Degree, 2010 - 2011

Cisimlerin Dayanımı, Associate Degree, 2010 - 2011
Taşıt Mekaniği, Associate Degree, 2010 - 2011
Alternatif Mot.ve Yakıt Sis., Associate Degree, 2010 - 2011
Motor Test Ayarları, Associate Degree, 2010 - 2011
Güç Aktarma Organları, Associate Degree, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation the performance of a new fuel produced from the phthalocyanine-gasoline mixture in an internal combustion engine**
Uçkan İ., Yakın A., Cabir B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.71, pp.884-893, 2024 (SCI-Expanded)
- II. **Effects of adding phthalocyanine to gasoline fuel on engine performance and exhaust emissions in spark ignition engine**
Yakın A., Cabir B.
HEAT TRANSFER RESEARCH, vol.55, no.14, pp.33-46, 2024 (SCI-Expanded)
- III. **Investigation of the Effect of Dead State Temperature on the Performance of Boron Added Fuels and Different Fuels Used in an Internal Combustion Engine.**
Uçkan İ., Yakın A., Behçet R.
HEAT TRANSFER RESEARCH, vol.55, no.12, pp.19-38, 2024 (SCI-Expanded)
- IV. **Evaluation of gasoline-phthalocyanines fuel blends in terms of engine performance and emissions in gasoline engines**
Cabir B., Yakın A.
Journal of the Energy Institute, vol.112, 2024 (SCI-Expanded)
- V. **Second law analysis of an internal combustion engine for different fuels consisting of NaBH₄, ethanol and methanol mixtures**
Uçkan İ., Yakın A., BEHÇET R.
International Journal of Hydrogen Energy, vol.49, pp.1257-1267, 2024 (SCI-Expanded)
- VI. **Testing sodium borohydride as a fuel additive in internal combustion gasoline engine**
Yakın A., Behçet R., Solmaz H., Halis S.
Energy, vol.254, 2022 (SCI-Expanded)
- VII. **Evaluation of hydrogen-containing NaBH₄ and oxygen-containing alcohols (CH₃OH, C₂H₅OH) as fuel additives in a gasoline engine**
Behçet R., Yakın A.
International Journal of Hydrogen Energy, vol.47, no.53, pp.22316-22327, 2022 (SCI-Expanded)
- VIII. **Effect of different types of fuels tested in a gasoline engine on engine performance and emissions**
Yakın A., Behçet R.
International Journal of Hydrogen Energy, vol.46, pp.33325-33338, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **TAŞIT KAYNAKLI HAVA KİRLİLİĞİ, AĞRI İLİ ÖRNEĞİ**
YAKIN A.
EJONS International Journal on Mathematic Engineering and Natural Sciences, vol.6, no.23, pp.618-626, 2022
(Peer-Reviewed Journal)
- II. **Benzinli Motorlarda Yakıt İçerisindeki Etanol Oranının Arttırılmasının Performans ve Emisyonlar Üzerindeki Etkisi**
YAKIN A.
MAS JOURNAL OF APPLIED SCIENCES, vol.7, no.4, pp.903-909, 2022 (Peer-Reviewed Journal)

- III. **İÇTEN YANMALI BENZİNLİ BİR MOTORDA YAKIT KATKI MADDESİ OLARAK ETİL ALKOL VE METİL ALKOLÜN KULLANILMASI**
Yıldız A., Behçet R., Yakın A.
EJONS International Journal on Mathematic, Engineering and Natural Sciences, vol.20, no.5, pp.805-812, 2021 (Peer-Reviewed Journal)
- IV. **Effect of Alcohol Additive Fuels Used in a Gasoline Engine on Engine Performance and Exhaust Emissions**
Yakın A., Behçet R.
Journal of the Institute of Science and Technology, vol.11, no.4, pp.3024-3034, 2021 (Peer-Reviewed Journal)
- V. **HİDROJENİN EKONOMİK YÖNDEN İRDELENMESİ**
ÖZKAN S., YAKIN A.
SMART JOURNAL International International SOCIAL MENTALITY AND RESEARCHER THINKERS, vol.7, no.52, pp.3047-3056, 2021 (Peer-Reviewed Journal)
- VI. **Performance and Emission Analysis of Sodium Borohydride Additive Methanol-Gasoline Blended Fuels Used as Fuel in a Gasoline Engine**
Yakın A., Behçet R.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.3, pp.1152-1160, 2021 (Peer-Reviewed Journal)
- VII. **EMISSION INVENTORY OF AIR POLLUTANTS BASED ON TRAFFIC IN MALATYA PROVINCE**
Yakın A., Behçet R.
İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.10, no.4, pp.2783-2790, 2020 (Peer-Reviewed Journal)
- VIII. **EMISSION INVENTORY OF AIR POLLUTION BASED ON TRAFFIC IN VAN PROVINCE**
Yakın A., BEHÇET R.
İĞDIR, JOURNAL OF THE INSTITUTE OF SCIENCE AND TECHNOLOGY, vol.9, no.3, pp.1567-1573, 2019 (Peer-Reviewed Journal)
- IX. **The Potential of Solar and Hydroelectric Energy in Van Province and Its Contribution to the Economy of the Province**
Yaman A., Yakın A., Behçet R.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.1, pp.243-250, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **TAŞITLARDA EMİSYON AZALTICI SİSTEMLER**
YAKIN A.
in: VERİMLİ VE ÇEVRECİ ENERJİ SİSTEMLERİ, TEMURTAŞ ALİ, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.39-53, 2023
- II. **HİBRİT VE ELEKTRİKLİ TAŞITLAR**
YAKIN A.
in: VERİMLİ VE ÇEVRECİ ENERJİ SİSTEMLERİ, TEMURTAŞ ALİ, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.53-67, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Yakıt Katkı Maddesi Olarak Amin-Boranlar: Motor ve Egzoz Emisyon Performansları**
Gülcan M., Yakın A.
BARÜ 6. Ar-Ge Proje Pazarı, Bartın, Turkey, 2 - 03 November 2023, pp.19
- II. **BENZİNLİ BİR MOTORDAKİ YAKIT KATKI MADDELERİNİN (ETANOL, SODYUM BORHİDRÜR) PERFORMANS VE EMİSYON ANALİZİ**
YAKIN A., BEHÇET R.

11. KARADENİZ UYGULAMALI BİLİMLER KONGRESİ, Rize, Turkey, 17 December 2022, pp.506-514
- III. **BENZİN YAKITI İÇERİSİNE KATILAN ETANOL VE METANOLÜN MOTOR PERFORMANS VE EMİSYONLARI ÜZERİNDEKİ ETKİSİ**
YAKIN A., BEHÇET R.
11. KARADENİZ UYGULAMALI BİLİMLER KONGRESİ, Rize, Turkey, 17 December 2022, pp.498-505
- IV. **Hydrogen Fuel Vehicles as A Fossil Fuel Alternative**
ÖZKAN S., YAKIN A.
Siirt Uluslararası Bilimsel Araştırmalar Kongresi, Siirt, Turkey, 5 - 07 November 2021
- V. **The Reasons That Push the Automotive Industry to Produce Electric Vehicles and Developments in Electric Vehicles**
ÖZKAN S., YAKIN A.
Siirt Uluslararası Bilimsel Araştırmalar Kongresi, Siirt, Turkey, 5 - 07 November 2021
- VI. **The Reasons That Push the Automotive Industry to Produce Electric Vehicles and Developments in Electric Vehicles**
Yakın A., Özkan S.
INTERNATIONAL SIIRT CONFERENCE ON SCIENTIFIC RESEARCH, Siirt, Turkey, 5 - 07 May 2021, pp.616-628
- VII. **HYDROGEN FUEL VEHICLES AS A FOSSIL FUEL ALTERNATIVE**
Yakın A., Özkan S.
INTERNATIONAL SIIRT CONFERENCE ON SCIENTIFIC RESEARCH, Siirt, Turkey, 5 - 07 May 2021, pp.629-636
- VIII. **Etanol ve metanolün benzin yakıtı ile karıştırılarak yakıtların içten yanmalı benzinli bir motorda kullanılmasının motor performansı ve egzoz emisyonlarına etkisi**
BEHÇET R., YAKIN A.
İğdır international applied sciences congress, İğdır, Turkey, 14 - 15 April 2021, pp.11-23
- IX. **Sodyum Borhidrür katkılı metanol benzin karışımı yakıtların içten yanmalı benzinli bir motorda kullanılmasının motor performansı ve egzoz emisyonlarına etkisi**
BEHÇET R., YAKIN A.
İğdır international applied sciences congress, İğdır, Turkey, 14 - 15 April 2021, pp.1-10
- X. **BY BLEND ETHANOL AND METHANOL WITH GASOLINE FUEL IN A GASOLINE ENGINE WITH INTERNAL COMBUSTION OF FUELS ENGINE PERFORMANCE AND EXHAUST OF USING EFFECT ON EMISSIONS**
Yakın A., Behçet R.
IGDIR INTERNATIONAL APPLIED SCIENCES CONGRESS, İğdır, Turkey, 14 - 15 April 2021, pp.44-56
- XI. **EFFECT OF USING SODIUM BORHYDRIDE ADDED METHANOL-GASOLINE MIXED FUELS IN A GASOLINE ENGINE WITH INTERNAL COMBUSTION ON ENGINE PERFORMANCE AND EXHAUST EMISSIONS**
Yakın A., Behçet R.
IGDIR INTERNATIONAL APPLIED SCIENCES CONGRESS, İğdır, Turkey, 14 - 15 April 2021, pp.34-43
- XII. **ELEKTRİKLİ ARAÇLARIN EKONOMİK AÇIDAN İRDELENMESİ**
Yakın A., Özkan S.
3.ULUSLARARASI SOSYAL VE BEŞERİ BİLİMLER KONGRESİ, Van, Turkey, 20 - 22 December 2019, pp.253
- XIII. **ADVANTAGE AND DISADVANTAGES OF HYDROGEN USED AS AN ALTERNATIVE FUEL IN INTERNAL COMBUSTION ENGINES**
Yakın A., BEHÇET R.
II.ULUSLARARASI BİLİMSSEL VE MESLEKİ ÇALIŞMALAR SEMPOZYUMU, Nevşehir, Turkey, 5 - 08 July 2018, pp.386-391
- XIV. **VAN İLİ GÜNEŞ VE HİDROELEKTRİK ENERJİLERİNİN POTANSİYELİ VE İLİN EKONOMİSİNE KATKILARI**
YAKIN A., YAMAN A., BEHÇET R.
ULUSLARARASI MESLEKİ BİLİMLER SEMPOZYUMU, Antalya, Turkey, 06 June 2018, pp.427
- XV. **EVALUATION OF AGRICULTURAL WASTES FOR ENERGY PRODUCTION PURPOSE**
Yakın A., BEHÇET R., GÖNEL E., ORAL F.
1 INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, pp.375-378

- XVI. **Van İli Güneş ve Hidroelektrik Enerjilerinin Potansiyeli ve İlin Ekonomisine Katkıları**
Yakın A., Yaman A., BEHÇET R.
IVSS 2018 Uluslararası Mesleki Bilimler Sempozyumu, Antalya, Turkey, 26 - 29 April 2018, pp.425
- XVII. **CONTRIBUTION TO THE CITY'S ECONOMY OF AGRICULTURAL PRODUCTS DRIED BY SOLAR ENERGY IN MALATYA PROVINCE**
Yakın A., ORAL F., BEHÇET R., GÖNEL E.
INTERNATIONAL CONGRESS ON MATHEMATIC ENGINEERING AND NATURAL SCIENCES-III, Mardin, Turkey, 21 - 22 April 2018, pp.84
- XVIII. **SOLAR ENERGY IRRIGATION SYSTEMS IN MALATYA**
Yakın A., BEHÇET R., GÖNEL E., ORAL F.
INTERNATIONAL CONGRESS ON MATHEMATIC ENGINEERING AND NATURAL SCIENCES-III, Mardin, Turkey, 21 - 22 April 2018, pp.88
- XIX. **AN ALTERNATIVE ENERGY RESOURCE FOR AGRICULTURAL MACHINERY HYDROGEN**
Yakın A., BEHÇET R., GÖNEL E., ŞAHİNASLAN A.
INTERNATIONAL CONGRESS ON MATHEMATIC ENGINEERING AND NATURAL SCIENCES-III, Mardin, Turkey, 21 - 22 April 2018, pp.85
- XX. **THE EFFECT OF EMISSIONS FROM VEHICLES ON ENVIRONMENT AND HUMAN HEALTH IN THE PROVINCE OF MALATYA**
Yakın A., BEHÇET R., GÖNEL E., ŞAHİNASLAN A.
INTERNATIONAL CONGRESS ON MATHEMATIC ENGINEERING AND NATURAL SCIENCES-III, Mardin, Turkey, 21 - 22 April 2018, pp.87

Scientific Refereeing

European Mechanical Science, Other Indexed Journal, April 2024
International Journal of Automotive Science and Technology, Other Indexed Journal, March 2024
Firat University Journal of Experimental and Computational Engineering, Other Indexed Journal, March 2024
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Other journals, February 2024
Mühendis ve Makina, National Scientific Refreed Journal, January 2024
Trafik ve Ulaşım Araştırmaları Dergisi (Online), National Scientific Refreed Journal, December 2023
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, December 2023
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, June 2023
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, SCI Journal, May 2023
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Other Indexed Journal, April 2023
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Other Indexed Journal, December 2022
Environmental Research and Technology, Other Indexed Journal, December 2021
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Other Indexed Journal, August 2021

Metrics

Publication: 39
Citation (Scopus): 44
H-Index (Scopus): 4

Congress and Symposium Activities

KARADENİZ ZİRVESİ 11. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Attendee, Rize, Turkey, 2022
KARADENİZ ZİRVESİ 11. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Attendee, Rize, Turkey, 2022

3.ULUSLARARASI SOSYAL VE BEŞERİ BİLİMLER KONGRESİ, Attendee, Van, Turkey, 2019
II.ULUSLARARASI BİLİMSEL VE MESLEKİ ÇALIŞMALAR SEMPOZYUMU, Attendee, Nevşehir, Turkey, 2018
ULUSLARARASI MESLEKİ BİLİMLER SEMPOZYUMU, Attendee, Antalya, Turkey, 2018
I.INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Attendee, Batman, Turkey, 2018
INTERNATIONAL CONGRESS ON MATHEMATIC ENGINEERING AND NATURAL SCIENCES-III, Attendee, Mardin, Turkey, 2018

Non Academic Experience

MILLI EGITIM BAKANLIGI