

ALI VOLKAN AKKAYA

ASSOC. PROF.

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Bölümü, A Blok, Ofis No: 409, Beşiktaş - İstanbul



Learning Knowledge

Doctorate 2002 - 2007	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey
Post Graduate 1999 - 2001	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey
Under Graduate 1994 - 1999	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Katı oksit yakıt hücreli enerji üretim sistemlerinin alternatif kriterlere göre performans analizi, Yıldız Technical University, Makine/Enerji, 2007

Post Graduate, Bir hidrolik sistemin dinamik özelliklerinin simülasyonu, Yıldız Technical University, Makine Müh. / Enerji, 2001

Academic Titles / Tasks

Associate Professor 2014 - Continues	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
Assistant Professor 2008 - 2014	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
Research Assistant PhD 2007 - 2008	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
Research Assistant 1999 - 2007	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering

Supported Projects

1. AKKAYA A. V. , Agbaje M. A. , Project Supported by Higher Education Institutions, Tersinir katı oksit hücreli bir sistemin modellenmesi ve analizi, 2021 - Continues
2. Erdem H. H. , Pusat Ş. , Akkaya A. V. , Technopark, Baca Gazı Ölçüm Cihazı Geliştirilmesi, 2019 - 2020
3. Pusat Ş. , Yumurtacı Z. , Akkaya A. V. , Çetin B. , Javanı N. , Project Supported by Other Official Institutions, Demir-Çelik Endüstrisi Atığı Cürufun Isıl Geri Kazanım Potansiyelinin Belirlenerek Elektrik Üretiminde Kullanılmasının Analizi, 2019 - 2019
4. Erdem H. H. , Çetin B. , Akkaya A. V. , Şahin B. , Teke İ. , Sevilgen S. H. , Dağdaş A. , Project Supported by Other Private Institutions, EÜAŞ Termik Santralleri için Teknik Konularda Danışmanlık, 2011 - 2015
5. Levy E. , TUBITAK Project, Utilization of waste heat to improve efficiency of coal fired power plants with carbon capture, 2011 - 2013
6. Erdem H. H. , Çetin B. , Akkaya A. V. , Üst Y. , Şahin B. , Teke İ. , TUBITAK Project, Termik santral performans izleme ve değerlendirme sistem tasarımı ve uygulaması (PERİDSİS), 2011 - 2013
7. Erdem H. H. , Sevilgen S. H. , Dağdaş A. , Çetin B. , Akkaya A. V. , Şahin B. , Teke İ. , TUBITAK Project, Enerji Verimliliğini Artırmak Üzere Termik Santral Atık Isılarını Faydaya Dönüştürme Yöntemlerinin Araştırılması, Geliştirilmesi ve Binalarda Isıtma Uygulaması, 2006 - 2010
8. Bekdemir Ş. , Gökçek M. , Erdem H. H. , Akkaya A. V. , Project Supported by Higher Education Institutions, Bir Gaz Türbininde Farklı Yakıtlar Kullanarak Yanma İşleminin Teorik ve Deneysel İncelenmesi, 2006 - 2007

Awards

1. Akkaya A. V. , SCI/SCI-expanded kapsamındaki dergilerde en fazla yayın yapan Yrd.Doç.Dr. kategorisinde üniversite üçüncülük ödülü , Yıldız Teknik Üniversitesi, January 2010
2. Akkaya A. V. , SCI/SCI-expanded kapsamındaki dergilerde en fazla yayın yapan araştırma görevlileri kategorisinde üniversite üçüncülük ödülü, Yıldız Teknik Üniversitesi, January 2007

Scholarships

2219 YURT DIŞI DOKTORA SONRASI ARAŞTIRMA BURS PROGRAMI, TUBITAK, 2011 - 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **Predicting coal elemental components from proximate analysis: Explicit versus implicit nonlinear models**
Akkaya A. V.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.43, no.15, pp.1825-1837, 2021 (Journal Indexed in SCI)
2. **Modifying hydraulic press brake by variable speed drive application: energy saving, CO2 reduction, and economic analysis**
Caliskan O., Akkaya A. V.
Energy Efficiency, vol.13, no.6, pp.1031-1046, 2020 (Journal Indexed in SCI)
3. **Explicit equation derivation for predicting coal moisture content in convective drying process by GMDH-type neural network**
Pusat Ş. , Akkaya A. V.
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, 2020 (Journal Indexed in SCI)
4. **Formulating a novel combined equation for coal calorific value estimation by group method data handling type neural network**

AKKAYA A. V. , ÇETİN B.

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020 (Journal Indexed in SCI)

5. **Coal higher heating value prediction using constituents of proximate analysis: Gaussian process regression model**
AKKAYA A. V.
International Journal of Coal Preparation and Utilization, pp.1-16, 2020 (Journal Indexed in SCI)
6. **Renovating thermal power plant to trigeneration system for district heating/cooling: Evaluation of performance variation**
Erdem H. H. , Akkaya A. V. , Dagdas A., Sevilgen S. H. , Çetin B., Şahin B., Teke I., Gungor C., Atas S., Basak M. Z.
APPLIED THERMAL ENGINEERING, vol.86, pp.35-42, 2015 (Journal Indexed in SCI)
7. **Predicting Coal Heating Values Using Proximate Analysis via a Neural Network Approach**
Akkaya A. V.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, pp.253-260, 2013 (Journal Indexed in SCI)
8. **Analysis of a vapour compression refrigeration system via exergetic performance coefficient criterion**
ÜST Y., AKKAYA A. V. , SAFA A.
JOURNAL OF THE ENERGY INSTITUTE, vol.84, no.2, pp.66-72, 2011 (Journal Indexed in SCI)
9. **Simulation and hybrid fuzzy-PID control for positioning of a hydraulic system**
Cetin S., AKKAYA A. V.
NONLINEAR DYNAMICS, vol.61, no.3, pp.465-476, 2010 (Journal Indexed in SCI)
10. **Thermodynamic analysis of an existing coal-fired power plant for district heating/cooling application**
Erdem H. H. , Dagdas A., Sevilgen S. H. , Çetin B., Akkaya A. V. , Şahin B., Teke I., Gungor C., Atas S.
APPLIED THERMAL ENGINEERING, vol.30, pp.181-187, 2010 (Journal Indexed in SCI)
11. **Comparative energetic and exergetic performance analyses for coal-fired thermal power plants in Turkey**
Erdem H. H. , Akkaya A. V. , Çetin B., Dagdas A., Sevilgen S. H. , Şahin B., Teke I., Gungor C., Atas S.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.48, pp.2179-2186, 2009 (Journal Indexed in SCI)
12. **Thermodynamic model for exergetic performance of a tubular SOFC module**
AKKAYA A. V. , ŞAHİN B., ERDEM H. H.
RENEWABLE ENERGY, vol.34, no.7, pp.1863-1870, 2009 (Journal Indexed in SCI)
13. **A study on performance of solid oxide fuel cell-organic Rankine cycle combined system**
AKKAYA A. V. , ŞAHİN B.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.33, no.6, pp.553-564, 2009 (Journal Indexed in SCI)
14. **Proximate analysis based multiple regression models for higher heating value estimation of low rank coals**
Akkaya A. V.
FUEL PROCESSING TECHNOLOGY, vol.90, pp.165-170, 2009 (Journal Indexed in SCI)
15. **An analysis of SOFC/GT CHP system based on exergetic performance criteria**
AKKAYA A. V. , ŞAHİN B., ERDEM H. H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.33, no.10, pp.2566-2577, 2008 (Journal Indexed in SCI)
16. **Electricity production cost analysis of a combined cycle power plant**
Çetin B., Erdem H. H. , Sevilgen S. H. , Akkaya A. V.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.3, pp.224-232, 2008 (Journal Indexed in SCI)
17. **Exergetic performance coefficient analysis of a simple fuel cell system**
AKKAYA A. V. , ŞAHİN B., ERDEM H. H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.32, no.17, pp.4600-4609, 2007 (Journal Indexed in SCI)
18. **Electrochemical model for performance analysis of a tubular SOFC**
Akkaya A. V.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.31, no.1, pp.79-98, 2007 (Journal Indexed in SCI)

19. **Emission assessment for cogeneration systems**
Erdem H. H. , Sevilgen S. H. , Akkaya A. V. , Cetin B.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.2, no.3, pp.267-275, 2007 (Journal Indexed in SCI)
20. **Effect of bulk modulus on performance of a hydrostatic transmission control system**
Akkaya A. V.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.31, pp.543-556, 2006 (Journal Indexed in SCI)
21. **Effect of economic parameters on power generation expansion planning**
Sevilgen S., Erdem H. H. , Cetin B., Akkaya A. V. , Dagdas A.
ENERGY CONVERSION AND MANAGEMENT, vol.46, pp.1780-1789, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **GMDH-type neural network based monthly electricity demand forecasting of Turkey**
Akkaya A. V.
International Advanced Researches and Engineering Journal, vol.5, no.1, pp.53-60, 2021 (Refereed Journals of Other Institutions)
2. **PERFORMANCE ANALYZING OF AN ORGANIC RANKINE CYCLE UNDER DIFFERENT AMBIENT CONDITIONS**
Akkaya A. V.
JOURNAL OF THERMAL ENGINEERING, vol.3, no.5, pp.1498-1504, 2017 (Journal Indexed in ESCI)
3. **Neural network approach for performance prediction of a solid oxide fuel cell**
Akkaya A. V.
Technology, vol.12, no.3, pp.211-216, 2009 (International Refereed University Journal)
4. **Gaz türbinli kombine çevrim sisteminin termodinamik optimizasyonu**
Çetin B., Erdem H. H. , Sevilgen S. H. , Gökçek M., Akkaya A. V.
Sigma-Mühendislik ve Fen Bilimleri Dergisi, vol.2, no.2, pp.50-62, 2006 (National Refreed University Journal)
5. **Simulink kullanarak bir pnömatik sistemin simülasyonu**
Akkaya A. V. , Sevilgen S. H. , Erdem H. H. , Çetin B.
Doğuş Üniversitesi Dergisi, no.6, pp.155-162, 2005 (National Refreed University Journal)
6. **Gaz türbinlerinin kısmi yüklerdeki birim elektrik üretim maliyetinin analizi**
Erdem H. H. , Sevilgen S. H. , Akkaya A. V. , Çetin B.
Sigma-Mühendislik ve Fen Bilimleri Dergisi, no.1, pp.123-132, 2005 (National Refreed University Journal)
7. **Taşıt süspansiyon sisteminin kendini ayarlayabilen bulanık mantık ile kontrolü**
Akkaya A. V. , Sağırılı A., Boğoçlu M.
Sigma- Mühendislik ve Fen Bilimleri Dergisi, no.2, pp.82-91, 2004 (National Refreed University Journal)
8. **Kojenerasyon sistemlerindeki yakıt fiyatlarının ve birim yakıt maliyetlerinin analizi**
Erdem H. H. , Sevilgen S. H. , Çetin B., Akkaya A. V.
Sigma-Mühendislik ve Fen Bilimleri Dergisi, no.1, pp.128-138, 2004 (National Refreed University Journal)
9. **Hidrolik Güç Sistemlerinde Kavite Olayı ve Saptama Metotlarının İncelenmesi**
Öztürk R., Akkaya A. V. , Bayraktar S.
Hidrolik ve Pnömatik Dergisi, vol.3, no.8, pp.140-146, 2003 (Other Refereed National Journals)
10. **Bir hidrolik sistemin dinamik davranışlarının benzetimi**
Akkaya A. V. , Öztürk R.
Yıldız Teknik Üniversitesi Dergisi, no.3, pp.67-74, 2002 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Zero dimensional modelling and analysis of a reversible solid oxide cell system for electrical energy storage**
Agbaje M. A. , Akkaya A. V.
Internal Conference on Energy,Environment and Storage of Energy Symposium, Kayseri, Turkey, 19 - 21 November 2020, pp.1-12
2. **Kömür Yakıtlı Termik Santrallerde Kömür Kurutma**
Pusat Ş., Erdem H. H. , Akkaya A. V.
Elektrik İletim ve Üretiminde Enerji Verimliliği Sempozyumu, Ankara, Turkey, 24 February 2020, pp.27-28
3. **Dynamic Performance of a Hydraulic System Driven By a Variable Speed AC Electric Motor with Electro-Hydraulic Load Sensing**
Kandeniz A., Bayraktar M., Akkaya A. V.
International Symposium For Environmental Science and Engineering Research (ISESER 2019), Konya, Turkey, 25 - 27 May 2019, pp.94-100
4. **Simple Use of Symbolic Regression Via Genetic Programming in the Prediction of Wind Speed**
Pusat Ş., Akkoyunlu M. T. , Akkaya A. V.
XIII Balkan Conference on Operational Research , Belgrade, Serbia, 25 - 28 May 2018, pp.21
5. **Experimental investigation of energy consumption for a hydraulic system driven by fixed and variable speed**
Çalışkan O., Akkaya A. V.
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 19 - 21 December 2017, pp.279-285
6. **Random Forest based Estimation Model for Coal Elemental Components**
Akkaya A. V.
International Conference on Energy and Thermal Engineering, İstanbul, Turkey, 25 - 28 April 2017, pp.504-508
7. **Modeling and simulation of coal fired supercritical power plant**
Akkaya A. V.
International Conference on Energy and Thermal Engineering, İstanbul, Turkey, 25 - 28 April 2017, pp.333
8. **Bir termik santraldeki çapraz akışlı cebri sirkülasyonlu soğutma kulesinin analizi**
Akkaya A. V.
3. ANADOLU ENERJİ SEMPOZYUMU, Muğla, Turkey, 1 - 03 October 2015, pp.506-515
9. **Development of Anfis based prediction model for coal heating value**
Akkaya A. V. , Şaban T., Abdullah D.
International Congress on Natural and Engineering Sciences, Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, pp.6
10. **Design and feasibility study for a manure based biogas power generation system**
Şenakın H., Ceren M. K. , Akkaya A. V.
International Conference on Advance in Mechanical Engineering, İstanbul, Turkey, 13 - 15 May 2015, pp.674-682
11. **Bir biyokütle gazlaştırıcının termodinamik modeli, simülasyonu ve analizi**
İzgi B., Akkaya A. V.
2. Anadolu Enerji Sempozyumu, Diyarbakır, Turkey, 2 - 04 May 2013, pp.589-598
12. **Performance analysis of an Organic Rankine Cycle recovering waste gas heat**
AKKAYA A. V. , PUSAT Ş., zahid başak m.
10th International Conference on Clean Energy (ICCE 2010), Famagusta, Cyprus (Kktc), 15 - 17 September 2010, pp.1-7
13. **Katı Atık Depo Saha Gazını Kullanarak Elektrik Üreten Sistemlerin Ekonomik Analizi**
Akkaya A. V. , Akkaya E.
AB Sürecinde Türkiye'de Katı Atık Yönetimi ve Çevre Sorunları Sempozyumu, İstanbul, Turkey, 28 - 31 May 2008, pp.1-8
14. **Modeling and simulation of hydrogen fed SOFC-GT hybrid system**
Akkaya A. V.
The 2nd International Hydrogen Energy Congress and Exhibition Proceedings, İstanbul, Turkey, 13 - 15 July 2007,

pp.1-7

15. **Kızgın Buhar Basıncı ve Sıcaklığının Kombine Çevrim Performansına Etkisi**
Çetin B., Erdem H. H. , Sevilgen S. H. , Akkaya A. V. , Gökçek M.
12. Uluslararası Kojenerasyon, Kombine Çevrim ve Çevre Konferansı ve Sergisi, İstanbul, Turkey, 25 - 26 May 2006, pp.141
16. **A parametric study for analysis of combined cycle system performance**
Çetin B., Erdem H., Sevilgen S., Akkaya A. V.
1st International Symposium and Exhibition on Environment-Friendly Energy Sources and Technologies, İzmir, Turkey, 5 - 07 September 2005, pp.33-37
17. **Self tuning fuzzy logic control of a hydraulically actuating system**
Akkaya A. V. , Çetin Ş.
2nd International Conference on Intelligent Knowledge Systems, İstanbul, Turkey, 6 - 08 July 2005, pp.154-158
18. **Determining operating conditions of integrated gas turbine-geothermal power plant with exergy analysis**
Erdem H. H. , Akkaya A. V. , Dağdaş A., Sevilgen S., Çetin B.
The Second International Exergy, Energy and Environment Symposium, Athens, Greece, 03 July 2005 - 07 July 2019, pp.1-6
19. **Gaz Türbinlerinde Evaporatif Soğutmanın Ekonomik Analizi**
Erdem H. H. , Sevilgen S. H. , Çetin B., Akkaya A. V.
11. Uluslararası Kojenerasyon, Kombine Çevrim ve Çevre Konferansı ve Sergisi, İstanbul, Turkey, 26 - 27 May 2005, pp.158
20. **Comparative economic analysis between fuel cell and conventional power plants**
Akkaya A. V. , Sevilgen S., Erdem H. H. , Çetin B., Dağdaş A.
Second International Conference on Applied Thermodynamics, İstanbul, Turkey, 18 - 20 May 2005, pp.559-565
21. **The performance analysis of integrated gas turbine-geothermal power plant with respect to ambient temperature**
Erdem H. H. , Çetin B., Dağdaş A., Akkaya A. V. , Sevilgen S.
Second International Conference on Applied Thermodynamics, İstanbul, Turkey, 18 - 20 May 2005, pp.493-500
22. **Comparison cogeneration system with conventional power plants and evaluation of their environmental impacts**
Sevilgen S. H. , Erdem H. H. , Akkaya A. V. , Çetin B.
the First International Exergy, Energy and Environment Symposium, İzmir, Turkey, 13 - 17 July 2003, pp.1047-1051
23. **The analysis of product costs of cogeneration system**
Erdem H. H. , Sevilgen S., Çetin B., Akkaya A. V.
The First Cappadocia International Mechanical Engineering Symposium, Nevşehir, Turkey, 14 - 16 July 2004, pp.121-127
24. **Bir Hidrolik Sistemin Yapay Sinir Ağları Temelli Konum Kontrolü**
Mercimek M., Akkaya A. V.
Akıllı Sistemlerde Yenilikler ve Uygulamaları , İstanbul, Turkey, 23 June 2004 - 25 June 2005, pp.175-178
25. **Bir Doğrusal Hidrolik Hareketlendirici Sistemin Bulanık Mantık Yaklaşımıyla Konum Kontrolü**
Akkaya A. V. , Çetin Ş.
III.Ulusal Hidrolik Pnömatik Kongresi ve Sergisi, İzmir, Turkey, 4 - 07 December 2003, pp.81-87
26. **İzmir-Seferihisar Jeotermal Sahasının Binary Teknolojiyle Elektrik Üretim Potansiyeli**
Dağdaş A., Erdem H. H. , Sevilgen S. H. , Çetin B., Akkaya A. V.
14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003, pp.134-138
27. **Basit Brayton Çevriminin Ekserji Kayıp Oranına Göre Analizi**
Sevilgen S. H. , Erdem H. H. , Akkaya A. V. , Çetin B., Dağdaş A.
14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003, pp.139-142
28. **Kojenerasyon ile Yenilenebilir Enerji Sistemlerinin Yeni Bir Yaklaşımla Çevresel Açidan Karşılaştırılması**

- Erdem H. H. , Akkaya A. V. , Sevilgen S. H. , Çetin B., Dağdaş A.
14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003, pp.129-133
29. **Kojenerasyon Sistemlerinin Yakıt Fiyatlarına Duyarlılığının Analizi**
Erdem H. H. , Sevilgen S. H. , Çetin B., Akkaya A. V. , Dağdaş A.
14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003, pp.123-128
30. **Gaz Türbinli Sistemlerde Giriş Şartlarının Performansa Etkisi**
Erdem H. H. , Sevilgen S. H. , Akkaya A. V. , Çetin B., Dağdaş A.
14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003, pp.116-122
31. **Yenilenebilir Enerji Kaynaklarının Çevresel Açidan Değerlendirilmesi**
Akkaya A. V. , Akkaya E., Dağdaş A.
IV. Ulusal Temiz Enerji Sempozyumu, İstanbul, Turkey, 16 - 18 October 2002, vol.2, pp.37-44
32. **Jeotermal Enerjiden Yararlanmanın Çevresel Avantajları**
Dağdaş A., Akkaya A. V.
IV. Ulusal Temiz Enerji Sempozyumu, İstanbul, Turkey, 16 - 18 October 2002, pp.687-694
33. **Farklı Valf Sürgü Yapıları İçin Temel Hidrolik Güç İletim Sisteminin Dinamik Karakteristiklerinin Analizi**
Akkaya A. V. , Boğoçlu M.
IV. GAP Mühendislik Kongresi, Şanlıurfa, Turkey, 6 - 08 June 2002, pp.371-377

Professional Experience

2018 - Continues	Staj Komisyonu Enerji Dalı Başkanı	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2016 - 2018	Eğitim-Öğretim İyileştirme-Geliştirme ve Müdek Komisyonu Anabilim Dalı Sorumlusu	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2013 - 2016	Erasmus Komiyon Üyesi	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering

Courses

Yakıt Pili ve Hidrojen Teknolojileri, Post Graduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Mühendislik Ekonomisi ve Değer Yönetimi, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
Turbo Makinalar, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
Turbo Makinalar, Under Graduate, 2010 - 2011, 2012 - 2013, 2013 - 2014
Teknik Termodinamik 2, Under Graduate, 2013 - 2014
Teknik Termodinamik 1, Under Graduate, 2013 - 2014
Hidrolik Pnömatik, Under Graduate, 2012 - 2013
Sayısal Yöntemler, Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011
Termik Makine (Turbo), Under Graduate, 2010 - 2011
Gemi Makinaları 1, Under Graduate, 2009 - 2010, 2010 - 2011
Enerji Santralleri, Under Graduate, 2009 - 2010
Temel Bilgisayar Bilimleri (M), Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011
Makine Mühendisliğine Giriş, Under Graduate, 2009 - 2010, 2010 - 2011

Endüstri Tesislerinde Enerji Ekonomisi, Post Graduate, 2009 - 2010

Hidrolik-Pnömatik Sistemler, Associate Degree, 2008 - 2009

Advising Theses

Akkaya A. V. , Modeling and Analysis of a Reversible Solid Oxide Cell System, Post Graduate, M.ADEKUNLE(Student), Continues

Akkaya A. V. , Fotovoltaik -Termoelektrik Hibrit Güç Üretim Sisteminin Analizi, Post Graduate, O.AĞYÜREK(Student), Continues

Akkaya A. V. , Doal Gaz Dağıtım Şebekesinde Yoğuşma Sıvısı Oluşumunun İncelenmesi ve Oluşumun Önlenmesi, Doctorate, E.NUMAN(Student), Continues

Akkaya A. V. , Giriş havasına su enjeksiyon uygulamasının kompresör performansına etkileri, Post Graduate, M.Arif(Student), Continues

Akkaya A. V. , Enerji Depolama için Tersinir Katı Oksit Hücre Teknolojilerinin Teknik ve Ekonomik Analizi, Doctorate, H.KORKMAZ(Student), Continues

Akkaya A. V. , Süperkritik CO2 Brayton Çevrimlerinin Termo-Ekonomik Analizi, Post Graduate, A.CAN(Student), Continues

Bayraktar M., Akkaya A. V. , Değişken Hızlı Alternatif Akım Elektrik Motoru İle Tahrik Edilen Elektro-Hidrolik Yük Algılamalı Bir Abkant Presin Dinamik Performans Analizi, Post Graduate, A.Kandeniz(Student), 2019

AKKAYA A. V. , Bir Abkant Preste Değişken Hızlı Tahrik Sistemi Uygulaması: Enerji Verimliliği ve Ekonomik Analiz, Post Graduate, O.Çalışkan(Student), 2018

AKKAYA A. V. , Ağır Ticari Araçlarda Direksiyon Eforuna Etki Eden Faktörlerin İncelenmesi, Post Graduate, U.Erdoğan(Student), 2018

AKKAYA A. V. , GAZİFİKASYONLU BİR YAKIT HÜCRESİ SİSTEMİNİN SİMÜLASYONU VE PERFORMANS ANALİZİ, Post Graduate, B.İzgi(Student), 2011

AKKAYA A. V. , EXERGOECONOMIC ANALYSIS OF A REHEATED-INTERCOOLED-REGENERATED GAS TURBINE POWER GENERATION SYSTEM, Post Graduate, E.Osman(Student), 2011

Scientific Refereeing

INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, Journal Indexed in SCI-E, February 2020

INTERNATIONAL JOURNAL OF OIL GAS AND COAL TECHNOLOGY, Journal Indexed in SCI-E, August 2017

ENERGY, Journal Indexed in SCI-E, July 2017

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, Journal Indexed in SCI-E, July 2017

ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, July 2017

JOURNAL OF THERMAL ENGINEERING, National Scientific Refreed Journal, July 2017

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Research Areas

Energy, Conventional Energy Systems and Their Technology, Alternative Energy Resources, Hydrogen Technologies and Fuel Cells