

## Prof. Zehra YUMURTACI

### Personal Information

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### International Researcher IDs

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### Education Information

Post Doctorate, Yildiz Technical University, Ecole Polytechnic Ens. / Canada, Mechanical Engineering/ Energy, Turkey  
1998 - 1999

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği/ Enerji ,  
Turkey 1988 - 1995

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği/ Enerji  
, Turkey 1986 - 1988

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey  
1981 - 1986

### Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Engineering and Technology

### Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical  
Engineering, 2020 - Continues

Fakülte Kurulu Üyesi, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical  
Engineering, 2020 - Continues

Yıldız Teknik Üniversitesi, Makine Fakültesi Yönetim Kurulu Üyesi (Doçent Temsilcisi), Makine Mühendisliği, 2015 - 2018  
Yıldız Teknik Üniversitesi, Makine Fakültesi Fakülte Kurulu Üyesi (Doçent Temsilcisi), Makine Mühendisliği Bölümü, 2014  
- 2018

Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Makine Mühendisliği, 2016 - 2017

Yıldız Teknik Üniversitesi, Enerji Ve Uygulama Merkezi, Makine Mühendisliği , 2015 - 2017

Yıldız Teknik Üniversitesi, YtÜ Yayın Teşvik Komisyonu Üyesi, Makine Mühendisliği, 2014 - 2016

Yıldız Teknik Üniversitesi, Makine Fakültesi Yönetim Kurulu Üyesi (Yardımcı Doçent Temsilcisi), Makine Mühendisliği  
Bölümü, 2001 - 2012

Yıldız Teknik Üniversitesi, Makine Mühendisliği Bölüm Başkan Yardımcısı, Makine Mühendisliği Bölümü, 1997 - 2003

Yıldız Teknik Üniversitesi, Makine Fakülte Kurulu Üyesi (Yardımcı Doçent Temsilcisi), Makine Mühendisliği Bölümü, 1997  
- 2000

## Advising Theses

- Yumurtacı Z., Üretim hattında işletim optimizasyonu yapılarak enerji verimliliğinin artırılması , Postgraduate, L.Doğanay(Student), 2019
- Yumurtacı Z., Yenilenebilir enerji kaynaklarının sosyal amaçlı yapılarda kullanım uygunluğunun analizi: Konya örneği, Postgraduate, H.Güleroğlu(Student), 2019
- Yumurtacı Z., Kavurmacioğlu L. A., SANTRİFÜJ POMPALARDA KAVİTASYONUN MODELLENMESİ , Doctorate, A.HACI(Student), 2018
- Yumurtacı Z., Yeşil Enerjinin Ekonomik Boyutunun İncelenmesi, Postgraduate, E.Genç(Student), 2018
- Yumurtacı Z., Türkiye'de kurulabilecek Deniz Üstü Rüzgar Santrallerinin Teknik ve Ekonomik Analizi, Postgraduate, A.Mert(Student), 2017
- Yumurtacı Z., Fabrika Üretim hattında Üretim Kapasitesini Arttırmak ve Enerji Verimliliğinin Sağlanması, Postgraduate, H.Özyurt(Student), 2016
- YUMURTACI Z., PV sistemlerinin teorik ve dizayn parametrelerinin optimizasyonu, Postgraduate, E.ERTAŞ(Student), 2016
- YUMURTACI Z., Türküye'nin bölgelere göre enerji potansiyeli, Postgraduate, C.GÖKMEN(Student), 2016
- YUMURTACI Z., Pompalarda enerji verimliliği, Postgraduate, A.SARIGÜL(Student), 2016
- YUMURTACI Z., Butil makinesinin hesaplamalı akışkanlar mekaniği yardımıyla analizi, Postgraduate, O.KUKUL(Student), 2016
- Yumurtacı Z., Hidroelektrik santrallerde çevresel akış miktarının belirlenmesi ve Çambaşı HES örneği, Postgraduate, Y.KARAKOYUN(Student), 2016
- YUMURTACI Z., Bir nehir üzerinde kurulabilecek hidroelektrik santral adedinin belirlenmesinde güç ve maliyetin etkisi, Postgraduate, Y.ÇINAR(Student), 2016
- YUMURTACI Z., Bursa ovaakçe doğalgaz kombine çevrim santralının termodinamik analizi ve maliyet hesabı, Postgraduate, H.MERİÇ(Student), 2016
- YUMURTACI Z., Rüzgar enerji santralleri yardımıyla hidrojen eldesinin ekonomik analizi, Postgraduate, K.TOPRAK(Student), 2016
- YUMURTACI Z., Türkiye'de biogaz enerjisinin kullanılabilirliği ve ekonomikliği, Postgraduate, M.Kerem(Student), 2016
- YUMURTACI Z., PV paneller yardımı ile güneş enerjisinden elektrik enerjisi üretiminin maliyet analizi ve gelecekteki projeksiyonu, Postgraduate, Ş.Çağlar(Student), 2016
- YUMURTACI Z., Türkiyenin alternatif enerji kaynakları ve ekonemik etüdü, Postgraduate, B.YAZICI(Student), 2016
- YUMURTACI Z., Karadeniz bölgesindeki nehirlerin hidrolik enerji potansiyellerinin tespiti ve uygun türbin tiplerinin seçimi, Postgraduate, H.Evren(Student), 2016
- YUMURTACI Z., Solar fotovoltaik sistemlerden hidrojen üretimi ve ekonomik etüdü, Postgraduate, Ö.KAŞHAN(Student), 2016
- YUMURTACI Z., Yeşil ırmak nehrinin hidroenerji potansiyelinin değerlendirilmesinin araştırması ve uygun türbin seçimi, Postgraduate, S.BACANAK(Student), 2016
- Yumurtacı Z., Türkiyenin Bölgelere göre enerji potansiyeli, Postgraduate, C.Gökmen(Student), 2015
- Yumurtacı Z., Türkiye Rüzgar Enerji Potansiyelinin Pompa Depolamalı Hidroelektrik Santraller ile Elektrik Şebekesine Entegrasyonu, Doctorate, A.YASİN(Student), 2014
- Yumurtacı Z., Hidroelektrik Santrallerde çevresel Akış Miktarının Belirlenmesi ve Çambaşı HES Örneği, Postgraduate, Y.KARAKOYUN(Student), 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A NUMERICAL STUDY AIMED AT FINDING OPTIMAL ARTIFICIAL NEURAL NETWORK MODEL COVERING EXPERIMENTALLY OBTAINED HEAT TRANSFER CHARACTERISTICS OF HYDRONIC UNDERFLOOR RADIANT HEATING SYSTEMS RUNNING VARIOUS NANOFLUIDS**  
Colak A. B., Karakoyun Y., AÇIKGÖZ Ö., YUMURTACI Z., DALKILIÇ A. S.  
HEAT TRANSFER RESEARCH, vol.53, no.5, pp.51-71, 2022 (SCI-Expanded)
- II. **An experimental investigation on the effect of use of nanofluids in radiant floor heating systems**

Karakoyun Y., Açıkgöz Ö., Küçükıldırım B. O., Yumurtacı Z., Dalkılıç A. S.

Energy and Buildings, vol.252, 2021 (SCI-Expanded)

- III. **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**  
Karakoyun Y., Açıkgöz Ö., Yumurtacı Z., Dalkılıç A. S.  
APPLIED THERMAL ENGINEERING, vol.164, 2020 (SCI-Expanded)
- IV. **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**  
Açıkgöz Ö., Karakoyun Y., Yumurtacı Z., Dukhan N., Dalkılıç A. S.  
ENERGY AND BUILDINGS, vol.183, pp.515-526, 2019 (SCI-Expanded)
- V. **The Effect of Inlet Blade Angle Variation on Cavitation Performance of a Centrifugal Pump: A Parametric Study**  
Dönmez A. H., Yumurtacı Z., Kavurmacıoğlu L.  
Journal Of Fluids Engineering-Transactions Of The Asme, vol.141, 2019 (SCI-Expanded)
- VI. **Comparison of environmental flow assessment methods with a case study on a runoff river-type hydropower plant using hydrological methods**  
KARAKOYUN Y., Donmez A. H., YUMURTACI Z.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, no.12, 2018 (SCI-Expanded)
- VII. **Special issue section on "The 2nd International Conference on Energy Systems (ICES-2016), 21-23 December 2016, Istanbul, Turkey"**  
JAVANI N., YUMURTACI Z.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.2, pp.1037, 2018 (SCI-Expanded)
- VIII. **Hydrogen production via supercritical water gasification of almond shell over algal and agricultural hydrochars as catalysts**  
Safari F., JAVANI N., YUMURTACI Z.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.2, pp.1071-1080, 2018 (SCI-Expanded)
- IX. **Electricity demand forecast of Turkey based on hydropower and windpower potential**  
DÖNMEZ A. H., KARAKOYUN Y., YUMURTACI Z.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.12, no.1, pp.85-90, 2017 (SCI-Expanded)
- X. **Geographical Dispersion and Environmental Impact Assessment of Wind Power Generation in Turkey**  
YUMURTACI Z., Demirhan Y.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.1, pp.10-15, 2017 (SCI-Expanded)
- XI. **Environmental flow assessment for energy generation sustainability employing different hydraulic evaluation methods: Cambasi hydropower plant case study in Turkey**  
KARAKOYUN Y., YUMURTACI Z., Donmez A. H.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.18, no.2, pp.583-591, 2016 (SCI-Expanded)
- XII. **Emissions estimation for lignite-fired power plants in Turkey**  
Vardar N., Yumurtacı Z.  
ENERGY POLICY, vol.38, pp.243-252, 2010 (SCI-Expanded)
- XIII. **Economical analyses of build-operate-transfer model in establishing alternative power plants**  
Yumurtacı Z., Erdem H. H.  
ENERGY CONVERSION AND MANAGEMENT, vol.48, no.1, pp.234-241, 2007 (SCI-Expanded)
- XIV. **Electric energy demand of Turkey for the year 2050**  
YUMURTACI Z., Asmaz E.  
ENERGY SOURCES, vol.26, no.12, pp.1157-1164, 2004 (SCI-Expanded)
- XV. **Hydrogen production from excess power in small hydroelectric installations**  
YUMURTACI Z., Bilgen P.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.29, no.7, pp.687-693, 2004 (SCI-Expanded)
- XVI. **Condenser Optimization in Steam Power Plant**  
Bekdemir S., Öztürk R., Yumurtacı Z.

## Articles Published in Other Journals

- I. **Energy Production Analysis for a Zero Emission Island, Istanbul Adalar District**  
Uraltas Y., Yumurtacı Z.  
INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, vol.1, no.1, pp.1-8, 2021 (ESCI)
- II. **Comparative techno-economic-environmental assessment of biomass fueled integrated energy systems**  
Heidarnejad P., Genceli H., Yumurtacı Z.  
Turkish Journal of Electromechanics & Energy, vol.6, no.2, pp.39-45, 2021 (Peer-Reviewed Journal)
- III. **Study on On-Shore and Off-Shore Wind Power Plant (Wpp) Micro-Siting in Adalar District (Princes' Islands) and Analysis of Energy Generation**  
YUMURTACI Z., Uraltas Y.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.11, no.2, pp.709-720, 2021 (ESCI)
- IV. **An experimental investigation on radiant floor heating systems at various operating conditions**  
Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S., YUMURTACI Z.  
Journal of Thermal Engineering, vol.6, no.5, pp.751-771, 2020 (ESCI)
- V. **Hybrid Solar And Wind Energy Potential Map of Turkey and Cost Analysis of 1 MW Hybrid Power Plants**  
Şengüler F., Yumurtacı Z.  
International Journal of Engineering Research and Advanced Technology-IJERAT, vol.5, no.6, pp.1-14, 2019 (Peer-Reviewed Journal)
- VI. **ÜRETİM HATTINDA İŞLETİM OPTİMİZASYONU YAPILARAK ENERJİ VERİMLİLİĞİNİN SAĞLANMASI**  
Doğanay L., YUMURTACI Z.  
3eelectrotech, pp.1-9, 2019 (Peer-Reviewed Journal)
- VII. **Türkiye’de Kurulabilecek Deniz Üstü Rüzgar Santrallerinin Teknik ve Ekonomik Analizi**  
YUMURTACI Z., Özdilim A. M.  
TMMOB Makine Mühendisleri Odası Tesisat Mühendisliği Dergisi, no.159, pp.15-22, 2017 (Peer-Reviewed Journal)
- VIII. **Türkiye’nin Hidrolik Potansiyeline Küresel Bir Bakış**  
Yumurtacı Z., KARAKOYUN Y., Dönmez A. H.  
Enerji ve Çevre Dünyası Dergisi, vol.15, no.112, pp.38-48, 2014 (Non Peer-Reviewed Journal)
- IX. **Hidroelektrik Santral Projelerinde Çevresel Akış Miktarının ve Çevresel Etkinin Değerlendirmesi**  
KARAKOYUN Y., Yumurtacı Z.  
Tesisat Mühendisliği, MMO, vol.12, no.138, pp.7-23, 2013 (Non Peer-Reviewed Journal)
- X. **An economic analysis of hydrogen production using wind power**  
YUMURTACI Z., Toprak K.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.1, no.1, pp.11-17, 2011 (Scopus)
- XI. **Hidrojen Enerjisi Kullanımında Temel Kriterler**  
YUMURTACI Z., BEKİROĞLU K. N., AKARYILDIZ E.  
TMMOB Makina Mühendisleri Odası Tesisat Mühendisliği Dergisi, 2002 (Peer-Reviewed Journal)
- XII. **Kojenerasyon Sistemleri ve Bir Uygulama Örneği**  
YUMURTACI Z., BEKİROĞLU K. N., AKARYILDIZ E.  
TMMOB Makina Mühendisleri Odası Tesisat Mühendisliği Dergisi, 2002 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Environmental Flow Assessment Methods: A Case Study**  
KARAKOYUN Y., YUMURTACI Z., DÖNMEZ A. H.

in: Exergetic, Energetic and Environmental Dimensions, Dinçer İ., Çolpan Ö., Kızılkın Ö., Editor, Elsevier, London, pp.1061-1075, 2017

II. **Variability Analysis of Wind and Wind Power in Turkey**

YUMURTACI Z., Demirhan Y., Malkoç Y.

in: Towards 100% Renewable Energy, Uyar S.T., Editor, Springer International Publishing, Basel, pp.203-209, 2017

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **THE CHANGES IN ELECTRICITY CONSUMPTION RELATED TO COVID-19 OUTBREAK AND ITS ENVIRONMENTAL EFFECTS**  
Akgün İ., Yumurtacı Z., İşleyen A., Agbaje M. A.  
6TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 20 - 22 December 2021, pp.1802-1812
- II. **Analyse of A Combined Rankine and Brayton Cycle Solar Tower Power System Using Latent heat Thermal Energy Storage**  
Rahimi M., Bekdemir E., Javanı N., Yumurtacı Z.  
World Energy Strategies Congress and Exhibition v, İstanbul, Turkey, 26 - 28 August 2019, pp.117
- III. **Experiments on Determination of Heat Transfer Coefficients for a Radiant Heated Enclosure**  
Karakoyun Y., Dalkılıç A. S., Yumurtacı Z., Açıkgöz Ö., Demirtaş S.  
INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, no.1, pp.1240-1245
- IV. **Numerical Simulation of a Cavitating Centrifugal Pump**  
DÖNMEZ A. H., YUMURTACI Z., Kavurmacıoğlu L.  
International Symposium on Innovative Approaches in Scientific Studies, Antalya, Turkey, 11 April 2018, pp.417-421
- V. **Numerical Modeling of A Francis Turbine Draft Tube Under Full and Partial Loads"**  
DÖNMEZ A. H., Kavurmacıoğlu L., YUMURTACI Z.  
International Symposium on Innovative Approaches in Scientific Studies, Antalya, Turkey, 11 April 2018, pp.238-239
- VI. **Experimental apparatus for the determination of heat transfer coefficients for radiant heating/cooling systems**  
Karakoyun Y., Dalkılıç A. S., Yumurtacı Z., Çakır A., Ayten F., Toka M.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES: THAILAND 2017, Phuket, Thailand, 3 - 05 July 2017
- VII. **Technical and Economic Analysis of Potential Offshore Wind Farm in Turkey**  
Özdilim A. M., YUMURTACI Z.  
International Conference on Energy and Thermal Engineering:İstanbul 2017, İstanbul, Turkey, 25 April 2017, pp.154-158
- VIII. **Review of the approaches to provide clean and sustainable transport systems**  
GÖKMEN C., YUMURTACI Z., YILDIZ C.  
The Second International Conference on Energy Systems, İstanbul, Turkey, 21 December 2016, pp.207-217
- IX. **Energy Potential Maps of Turkey**  
GÖKMEN C., YUMURTACI Z.  
The Second International Conference on Energy Systems, İstanbul, Turkey, 21 December 2016, pp.154-157
- X. **Energy efficiency in Pumps with Variable Speed Control**  
babadağ A., YUMURTACI Z.  
The Second International Conference on Energy Systems, İstanbul, Turkey, 21 December 2016, pp.107-113
- XI. **Minimum Flow Assessment by Using Different Environmental Flow Assessment Methods: A Case Study**  
KARAKOYUN Y., YUMURTACI Z., DÖNMEZ A. H.

- The Second International Conference on Energy Systems, İstanbul, Turkey, 21 December 2016, pp.418-423
- XII. **Investigation of economical aspect of green Energy**  
Genç E., YUMURTACI Z.  
The Second International Conference on Energy Systems, İstanbul, Turkey, 21 December 2016, pp.288-292
- XIII. **Experimental and Numerical Investigation of Pressure Drop Phenomenon in Channels**  
DÖNMEZ A. H., KARAKOYUN Y., YUMURTACI Z.  
International Journal of Arts & Sciences, Barcelona, Spain, 23 May 2016
- XIV. **Regional Energy Potential of Turkey**  
GÖKMEN C., YUMURTACI Z.  
International Conference on Energy Systems, İstanbul, Turkey, 23 December 2015, pp.210-215
- XV. **Experimental Investigation of Thermal Conductivity of Insulation Materials**  
KARAKOYUN Y., DÖNMEZ A. H., YUMURTACI Z.  
International Conference on Energy Systems, İstanbul, Turkey, 23 December 2015, pp.110-115
- XVI. **Multi Objective Optimization Underfloor Heating System Based on Particle Swarm Algorithm**  
JAVANI N., Hajabdollahi H., YUMURTACI Z.  
International Conference on Energy Systems, İstanbul, Turkey, 23 December 2015, pp.150-155
- XVII. **Comparison of Different Electricity Demand Forecast Models in Turkey**  
KARAKOYUN Y., DÖNMEZ A. H., YUMURTACI Z., GÖNÜL A.  
International Conference on Energy Systems, İstanbul, Turkey, 23 December 2015, pp.100-107
- XVIII. **MULTI OBJECTIVE OPTIMIZATION OF UNDERFLOOR HEATING SYSTEM BASEDON PARTICLE SWARM ALGORITHM**  
JAVANI N., hajabdollahi H., YUMURTACI Z.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 23 - 25 December 2015
- XIX. **Assessment of Environmental Flow For Çambaşı Hydropower Plant in Turkey**  
KARAKOYUN Y., Yumurtacı Z.  
01 December 2014
- XX. **Environmental Flow Assessment Methodologies And Implementations In Turkey**  
KARAKOYUN Y., YUMURTACI Z., DÖNMEZ A. H.  
International Journal of Arts & Sciences Conference, Prag, Czech Republic, 09 June 2014
- XXI. **Evaluation Of Hydraulic And Wind Energy Potential Of Turkey**  
YUMURTACI Z.  
Humboldt-kolleg, İstanbul, Turkey, 12 December 2013, pp.7
- XXII. **Evaluation Of Solar Radiation Models And For Estimating Of Montly Total Pv System Energy**  
YUMURTACI Z., Ertaş E.  
7th International Advanced Technologies Symposium, İstanbul, Turkey, 30 October 2013, pp.110-117
- XXIII. **Investigation of Usage of Hybrid Energy System on heating Purposes**  
AKBULUT U., KINÇAY O., UTLU Z., YUMURTACI Z., AĞUSTOS H.  
SEEP2010 CONFERENCE, Bari, Italy, 29 July 2010, pp.122-126
- XXIV. **Technical and economic assessment of utilisation of solar energy in indoor swimming pools in Turkey, an application**  
AKBULUT U., KINÇAY O., UTLU Z., YUMURTACI Z., AĞUSTOS H.  
International Ege Energy Sempodium and Exhibition (IEESE-5), Denizli, Turkey, 27 July 2010, pp.55-62
- XXV. **Investigation of Usage of Hybrid Renewable Energy System on Heating Purposes**  
UTLU Z., KINÇAY O., YUMURTACI Z., BEKİROĞLU K. N., KEYF S.  
4th International Conference on Sustainable Energy and Environmental Protection, Bari, Italy, 29 June - 02 July 2010
- XXVI. **Investigation of Usage of Hybrid Renewable Energy System on Heating Purposes**  
UTLU Z., Kinçay O., YUMURTACI Z., BEKİROĞLU K. N., KEYF S., AGUSTOS H.  
SEEP 2010, Sustainable Energy and Environmental Protection, Bari, Italy, 29 June - 02 July 2010, pp.1-8
- XXVII. **Selection of an Appropriate Energy System For The University Campus**  
KINÇAY O., YUMURTACI Z.

- The Second International Green Energy Conference, Ontario, Canada, 24 July 2006, pp.120-127
- XXVIII. **Maximum Power Generation Using Wind Power Plants**  
BEKİROĞLU K. N., YUMURTACI Z., KEKEZOĞLU B.  
The Second International Green Energy Conference, Ontario, Belgium, 25 - 29 June 2006
- XXIX. **A New Approach To Economical Analysis Of Alternative Energy Resources**  
YUMURTACI Z., BEKİROĞLU K. N.  
The Second International Green Energy Conference, Ontario, Belgium, 25 - 29 June 2006
- XXX. **Economical Analysis for Alternative Energy Sources in Turkey**  
YUMURTACI Z., Yazıcı B.  
The Second International Exergy, Energy and Environment symposium, Kos, Greece, 03 July 2005, pp.120-125
- XXXI. **Technologic and Economic Analysis of Cogeneration and Trigeration Systems**  
YUMURTACI Z., OBDAN A. H.  
INTERNATIONAL EXERGY, ENERGY and ENVIROMENT SYMPOSIUM (IEEES2), KOS, Greece, 3 - 07 July 2005
- XXXII. **Economical Analysis of Gaseous and Liquid Hydrogen Storage And Transportation**  
YUMURTACI Z., BEKİROĞLU K. N.  
2nd International Conference on Applied Thermodynamics, İstanbul, Turkey, 18 - 20 April 2005
- XXXIII. **Hydrogen from Sea Water By Using Small Hydroelectric Power plants Part 2: Liquid Hydrogen**  
YUMURTACI Z., Bilgen E., Gül İ. Ç., BEKİROĞLU K. N.  
The First International Exergy, Energy and Environment symposium, İzmir, Turkey, 01 July 2003, pp.415-419
- XXXIV. **Hydrogen from Sea Water By Using Small Hydroelectric Power plants Part 1:Gaseous Hydrogen**  
YUMURTACI Z., Bilgen E., Gül İ. Ç., ÖZTÜRK R.  
The First International Exergy, Energy and Environment symposium, İzmir, Turkey, 01 July 2003, pp.409-414
- XXXV. **Feasibility of Small Hydraulic Power –Hydrogen Systems**  
YUMURTACI Z., Bilgen E.  
International Thermal Energy Congress, İzmir, Turkey, 01 July 2001, pp.110-115
- XXXVI. **'Hydrology of the Rivers in Turkey**  
YUMURTACI Z.  
Eighth International Conference on Hydraulic Engineering Software, Lizbon, Portugal, 12 June 1999, pp.267-274
- XXXVII. **'Francis Türbinlerinde Kanat Giriş Açısının Performansa Etkisi**  
Basut S., YUMURTACI Z.  
The Second International Advanced Techonologies Symposium, İstanbul, Turkey, 10 May 1999, pp.469-478
- XXXVIII. **Reducing the Adverse Effects of Hydropower Plants on Environment by Using Environmental Flow Assessment Methodologies**  
KARAKOYUN Y., Dönmez A. H., Yumurtacı Z.

## Supported Projects

YUMURTACI Z., Project Supported by Higher Education Institutions, Hesaplamalı Akışkanlar Dinamiği (HAD) ile Pompalarda Kavite Analizi, 2014 - 2017

YUMURTACI Z., TUBITAK Project, Rüzgâr Hızlarının Makro-Mekânsal İstatiksel Dağılımının Modellenmesi ve Rüzgâr Enerjisi Santralleri Entegre Sisteminin Farklı Rüzgar Türbinleri Kullanılarak Ortalama Güç Üretim Seviyesi ve Çeşitli Risk Ölçütlerine Göre Optimizasyonu, 2013 - 2016

YUMURTACI Z., TUBITAK Project, Türkiye Rüzgar Enerjisi Potansiyelinin Pompa Depolamalı Hidroelektrik Santrallerle Elektrik Şebekesine Entegrasyonu, 2011 - 2013

YUMURTACI Z., Project Supported by Other Official Institutions, Hidrolik Boru Montaj Sistemi, 2010 - 2011

YUMURTACI Z., Project Supported by Higher Education Institutions, İstanbul'da güneş radyasyon şiddetine göre üretilebilecek yıllık gaz hidrojen miktarının belirlenmesi, 2007 - 2011

## **Activities in Scientific Journals**

International Journal of Hydrogen Energy, Special Issue Editor, 2016 - Continues

## **Metrics**

Publication: 69

Citation (WoS): 211

Citation (Scopus): 237

H-Index (WoS): 7

H-Index (Scopus): 8

## **Congress and Symposium Activities**

The Second International Conference on Energy Systems, Attendee, İstanbul, Turkey, 2016

6 th WORLD SUSTAINABLE ENERGY FORUM, Invited Speaker, Vienna, Austria, 2016

Ukusal Hidrojen Teknolojileri Konferansı, Attendee, İstanbul, Turkey, 2015

International Conference on Energy Systems, Attendee, Turkey, 2015

5 th International Conference on Sustainable Energy, Invited Speaker, Vienna, Austria, 2015

International Conference Advanced of Mechanica Engineering, Attendee, Turkey, 2015

Energy Technologies Conference, Attendee, Turkey, 2014

International Confernce Advanced of mechanical Engineering(ICAME'2014), Attendee, Turkey, 2014

International Conference on Global Climate Change, Attendee, Turkey, 2013

7th International Advanced Technologies Symposium, Attendee, Turkey, 2013