

# CENK ÇELİK

## PROF.

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### Learning Knowledge

Post Doctorate 2011 - 2011	University College London, Engineering Faculty, Department Of Chemical Engineering /The Centre For Co2 Technology, England
Post Doctorate 2008 - 2008	Hokkaido University, Engineering Faculty, Department Of Chemical Engineering/Center For Advanced Research Of Energy Conversion Materials, Japan
Doctorate 2002 - 2006	Kocaeli University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey
Postgraduate 1999 - 2002	Kocaeli University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey
Undergraduate 1995 - 1999	Kocaeli University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey

### Dissertations

Doctorate, Doğrudan Sodyum Borhidrüllü Yakıt Pili Proses Parametrelerinin Verim Üzerine Etkisinin İncelenmesi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı /Termodinamik Ve Isı Tekniği Abd, 2006  
Postgraduate, Buz Oluşumunun Deneysel Olarak İncelenmesi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı/Termodinamik Ve Isı Tekniği Abd, 2002

### Academic Titles / Tasks

Professor 2019 - Continues	Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği
Associate Professor 2013 - 2019	Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği

Assistant Professor

2008 - 2013

Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği

Research Assistant

2000 - 2008

Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği

## Supported Projects

1. Becerikli F., Çelik C., TUBITAK Project, Manufacturing of PEM Electrolyser Gas Compressor that Produces 700 ml/min of Hydrogen and can be Pressurized for Fuel Cells (PEM-SOFC) That Produce Electricity up to 1 kW, 2020 - 2022
2. Akay R. G. , Çelik C., Kibar M. E. , TUBITAK Project, Development of Electrochemical Hydrogen Purifier and Compressor System (EHPC) for Pure and Pressurized Hydrogen Production from Reformate Gases, 2019 - 2022
3. Çelik C., Ertürk A. T. , Saraç H. İ. , Akin A. N. , Akay R. G. , Yılmaz M., TUBITAK Project, Development of a Direct Borohydride Fuel Cell (DBFC) Consisting Of Novel Membrane Electrode Assemblies And The Investigation Of The Effects Of Operation Parameters On The Performance, 2016 - 2019
4. ÇELİK C., Project Supported by Higher Education Institutions, YAKIT PİLLERİNDE ANOT TARAFI AKIŞ ALANI TASARIMININ PERFORMANSA ETKİSİ, 2017 - 2018
5. ÇELİK C., Project Supported by Higher Education Institutions, DOĞRUDAN SODYUM BORHİDRÜRLÜ YAKIT PİLLERİNİN (DBHYP) ANOT KISMINDA KATALİZÖR DESTEĞİ OLARAK STANDART KARBON KAĞIT/KUMAŞ YERİNE GAZ DİFÜZYON TABAKASI OLARAK KULLANILMAK ÜZERE METALİK KÖPÜĞÜN KARAKTERİZASYONU, 2017 - 2018
6. SARAÇ H. İ. , ÇELİK C., OPAN M., ÜNLÜ M., Project Supported by Higher Education Institutions, KIRSAL YERLEŞİM ALANLARINDA YENİLENEBİLİR ENERJİ KAYNAKLARINDAN OPTİMAL ENERJİ ÜRETİMİ VE YÖNETİMİ, 2016 - 2018
7. Özdemir E., ÇELİK C., TUBITAK Project, Kocaeli Üniversitesi Ar-Ge Strateji Belgesi (Enerji), 2016 - 2018
8. ÇELİK C., Other Supported Projects, Development of advanced solid oxide fuel cell systems through engineering design, materials innovation and thermodynamic analyses, 2011 - 2011
9. ÇELİK C., Project Supported by Other Private Institutions, Soğutucu Serpantinlerde Optimizasyon (H476 Ford Cargo projesi kapsamında en uygun soğutma performansı sağlayacak radyatör tasarımı), 2008 - 2009
10. Çelik C., Yiğit K. S. , Saraç H. İ. , TUBITAK Project, Bitkisel ve hayvansal atıklardan biyogaz üretimi ve entegre enerji üretim sisteminde kullanımı, 2007 - 2009
11. ÇELİK C., Other Supported Projects, Greenhouse Gas Mitigation Technology Development Program, 2008 - 2008

## Scholarships

International Postdoctoral Research Fellowship Programme ( Directorate of Science Fellowships and Grant Programmes (BİDEB))(BİDEB 2219), TUBITAK, 2011 - 2011

Post Doctoral Research Fellowship, Other International Organizations, 2008 - 2008

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

1. **Preparation and characterization of bimetallic Pd-Zn nanoparticles on carbon for borohydride electrooxidation**  
Dogan Ozcan M., AKAY R. G. , ÇELİK C., AKIN A. N.  
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.134, no.1, pp.163-177, 2021 (Journal Indexed in SCI)

2. **Investigation of the performance of a direct borohydride fuel cell with low Pt/C catalyst loading under different operating conditions**  
Kadioglu T., Turkmen A. C. , Ata K. C. , Akay R. G. , Tıkız İ., Çelik C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35006-35012, 2020 (Journal Indexed in SCI)
3. **Investigation of the effects of SPEEK and its clay composite membranes on the performance of Direct Borohydride Fuel Cell**  
Ata K. C. , Kadioğlu T., Türkmen A. C. , Çelik C., Akay R. G.  
International Journal of Hydrogen Energy, vol.45, pp.5430-5437, 2020 (Journal Indexed in SCI)
4. **Analysis of wind energy potential; A case study of Kocaeli University campus**  
Caglayan I, Tikiz İ., Turkmen A. C. , Çelik C., Soyhan G. (.  
Fuel, vol.253, pp.1333-1341, 2019 (Journal Indexed in SCI)
5. **Optimal energy production from wind and hydroelectric power plants**  
Opan M., Ünlü M., Özkale C., Çelik C., Saraç H. İ.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.41, pp.2219-2232, 2019 (Journal Indexed in SCI)
6. **The statistical relationship between flow channel geometry and pressure drop in a direct methanol fuel cell with parallel channels**  
TURKMEN A. C. , ÇELİK C., ESEN H.  
International Journal of Hydrogen Energy, vol.44, no.34, pp.18939-18950, 2019 (Journal Indexed in SCI)
7. **Effect of morphology of activated carbon supports for cobalt boride catalysts on the hydrolysis reaction of sodium borohydride**  
Kibar M. E. , Engintepe E., Ozdemir E., Kaplan Ö., Çelik C., Akın A. N.  
INTERNATIONAL JOURNAL OF CHEMICAL KINETICS, vol.50, pp.839-845, 2018 (Journal Indexed in SCI)
8. **Evaluation of SPEEK/PBI blend membranes for possible direct borohydride fuel cell (DBFC) application**  
AKAY R. G. , ATA K. C. , KADIOGLU T., ÇELİK C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.40, pp.18702-18711, 2018 (Journal Indexed in SCI)
9. **The effect of different gas diffusion layer porosity on proton exchange membrane fuel cells**  
TURKMEN A. C. , ÇELİK C.  
FUEL, vol.222, pp.465-474, 2018 (Journal Indexed in SCI)
10. **Energy harvesting with the piezoelectric material integrated shoe**  
Turkmen A. C. , Çelik C.  
ENERGY, vol.150, pp.556-564, 2018 (Journal Indexed in SCI)
11. **An experimental research on woodchip drying using a screw conveyor dryer**  
KAPLAN Ö., ÇELİK C.  
FUEL, vol.215, pp.468-473, 2018 (Journal Indexed in SCI)
12. **Analysis of a priority flow control valve with hydraulic system simulation model**  
Coskun G., KOLCUOGLU T., DOGRAMACI T., Turkmen A. C. , ÇELİK C., Soyhan H. S.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.39, no.5, pp.1597-1605, 2017 (Journal Indexed in SCI)
13. **Analysis of fuel cell vehicles with advisor software**  
TURKMEN A. C. , SOLMAZ S., ÇELİK C.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.70, pp.1066-1071, 2017 (Journal Indexed in SCI)
14. **Decision analysis application intended for selection of a power plant running on renewable energy sources**  
Ozkale C., Celik C., Turkmen A. C. , Cakmaz E. S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.70, pp.1011-1021, 2017 (Journal Indexed in SCI)
15. **Emission characteristics of an hydrogen-CH<sub>4</sub> fuelled spark ignition engine**  
ACIKGOZ B., ÇELİK C., Soyhan H. S. , GOKALP B., KARABAG B.  
FUEL, vol.159, pp.298-307, 2015 (Journal Indexed in SCI)
16. **Investigation of Ni Foam Effect for Direct Borohydride Fuel Cell**

- Celik C., SAN F. G. B. , SARAÇ H. İ.  
FUEL CELLS, vol.12, no.6, pp.1027-1031, 2012 (Journal Indexed in SCI)
17. **An experimental study on performance and emission characteristics of a methane-hydrogen fuelled gasoline engine**  
ACIKGOZ B., ÇELİK C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.23, pp.18492-18497, 2012 (Journal Indexed in SCI)
  18. **Woodchip drying in a screw conveyor dryer**  
KAPLAN Ö., ÇELİK C.  
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.4, no.6, 2012 (Journal Indexed in SCI)
  19. **Modeling of an HCCI engine by using CFD and detailed chemical kinetic model**  
Toksoz S., Coskun G., Celik C., Soyhan H. S. , Buyukkaya E., Halici F.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.1, pp.427-432, 2012 (Journal Indexed in SCI)
  20. **Improving the direct borohydride fuel cell performance with thiourea as the additive in the sodium borohydride solution**  
ÇELİK C., SAN F. G. B. , SARAÇ H. İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.16, pp.8678-8682, 2010 (Journal Indexed in SCI)
  21. **Influences of sodium borohydride concentration on direct borohydride fuel cell performance**  
ÇELİK C., SAN F. G. B. , SARAÇ H. İ.  
JOURNAL OF POWER SOURCES, vol.195, no.9, pp.2599-2603, 2010 (Journal Indexed in SCI)
  22. **Effects of operation conditions on direct borohydride fuel cell performance**  
ÇELİK C., SAN F. G. B. , SARAÇ H. İ.  
JOURNAL OF POWER SOURCES, vol.185, no.1, pp.197-201, 2008 (Journal Indexed in SCI)
  23. **Energy efficiency in pumps**  
Kaya D., Yagmur E. A. , Yiğit K. S. , Kılıç F., Eren A. S. , Çelik C.  
ENERGY CONVERSION AND MANAGEMENT, vol.49, pp.1662-1673, 2008 (Journal Indexed in SCI)

### Articles Published in Other Journals

1. **THE EFFECT OF DIFFERENT INTAKE MANIFOLD GEOMETRIES ON SINGLE-CYLINDER DIESEL ENGINE SOOT FORMATION AND PERFORMANCE**  
DEMİR Ü., ÇETİNKAYA O., TURKMEN A. C. , ÇELİK C.  
International Journal of Mechanical and Production Engineering (IJMPE), vol.6, pp.30-34, 2018 (Refereed Journals of Other Institutions)
2. **Autonomous Car Parking System with Various Trajectories**  
EŞİYOK B., TURKMEN A. C. , KAPLAN Ö., ÇELİK C.  
Periodicals of Engineering and Natural Sciences (PEN), 2017 (Refereed Journals of Other Institutions)
3. **The Analysis of The Risks of Renewable Energy Resources by Using Fuzzy FMEA Technique**  
HÜLYA Y., ÖZKALE C., ÖZCAN B., ÇELİK C.  
Dumlupınar University Journal Of Social Sciences, pp.227-242, 2014 (Refereed Journals of Other Institutions)

### Books & Book Chapters

1. **Chapter 28 : Investigation of Airframe in terms of Aerodynamics**  
Türkmen A. C. , Yıldız F., ÇELİK C., SARAÇ H. İ.  
in: Sustainable Aviation Energy and Environmental Issues, Karakoc HT, Ozerdem BM, Sogut ZM, Colpan OC, Altuntas O, Editor, Springer, İsviçre, pp.343-350, 2016
2. **Chapter 28 : Investigation of Airframe in terms of Aerodynamics**  
TURKMEN A. C. , YILDIZ F., ÇELİK C., SARAÇ H. İ.

## Refereed Congress / Symposium Publications in Proceedings

1. **Determination of the Effect of Serial and Parallel Flow Configuration on Pressure Drop of Oxidant Side of the Fuel Cell**  
TIKIZ İ., ÇELİK C., SARAÇ H. İ.  
Isı Bilimi ve Tekniği Kongresi (ULIBTK 2019), 11 - 14 September 2019
2. **Investigation of the Performance of a Direct Borohydride Fuel Cell with Low Pt/C Catalyst Loading**  
ÇELİK C., TIKIZ İ., AKAY R. G.  
4th International Hydrogen Technologies Congress (IHTEC-2019), 20 - 23 June 2019
3. **Investigation of the Performance of a Direct Borohydride Fuel Cell with Low Pd/C Catalyst Loading Under Different Operating Conditions**  
ÇELİK C., TIKIZ İ., SARAÇ H. İ.  
4th International Hydrogen Technologies Congress (IHTEC-2019), 20 - 23 June 2019
4. **Kinetics of Sodium Borohydride Oxidation Reaction on Carbon-Supported Pd-Zn Catalysts**  
Özcan M. D. , ÇELİK C., AKAY R. G. , AKIN A. N.  
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, pp.219
5. **Hydrogen Production Performances of Solar, Wind and Their Hybrid System**  
TIKIZ İ., ÇELİK C.  
IMASCON 2019, 26 - 28 April 2019
6. **COMPARISON OF RENEWABLE ENERGY RESOURCES with ANALYTIC HIERARCHY PROCESS METHOD**  
ÖZKALE C., ÇELİK C., TÜRKMEN A. C. , ÇAKMAZ E. S.  
INTERNATIONAL CONFERENCE on EMERGING TRENDS in ENGINEERING and TECHNOLOGY, 27 - 28 March 2019
7. **A Comparison of the Various Motor Type for Usage at Fuel Cell Vehicles**  
TIKIZ İ., ÇELİK C.  
7th International Conference on Renewable Fuels Combustion and Fire FCE 2019, 10 - 13 March 2019
8. **Preparation And Characterization Of Carbon-Supported Pd-Zn Nanoparticles As Anode Catalyst For Direct Borohydride Fuel Cell**  
DOĞAN ÖZCAN M., ÇELİK C., AKIN A. N. , AKAY R. G.  
22nd World Hydrogen Energy Congress ( WHEC 2018), Rio-De-Janeiro, Brazil, 17 - 22 June 2018
9. **Development and Electrochemical Characterization of Pd-Co/C Bimetallic Alloy Electrocatalysts**  
GÖZLÜ C., ÇELİK C., AKIN A. N. , AKAY R. G.  
22nd World Hydrogen Energy Congress ( WHEC 2018), Rio-De-Janeiro, Brazil, 17 - 22 June 2018
10. **Ceyhan Nehri Havzası'nda Çoklu Baraj Gölleri Üzerinde Yüzer Fotovoltaik Sistemlerin Kullanıldığı Bir Sistemde Optimal Enerji Üretimi**  
ÜNLÜ M., OPAN M., ÖZKALE C., ÇELİK C., SARAÇ H. İ.  
3rd INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, Kocaeli, Turkey, 4 - 05 May 2018, pp.332-333
11. **Kırsal Bir Yerleşim Bölgesinde Yenilenebilir Enerji Kaynaklarından Optimal Enerji Üretimi**  
OPAN M., ÖZKALE C., ÜNLÜ M., ÇELİK C., SARAÇ H. İ.  
3rd INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, Kocaeli, Turkey, 4 - 05 May 2018, pp.327-329
12. **Rüzgar ve Hidroelektrik Enerji Santralleri'nden Kırsal Bir Yerleşim Bölgesinde Optimal Enerji Üretimi**  
ÖZKALE C., OPAN M., ÜNLÜ M., ÇELİK C., SARAÇ H. İ.  
3RD INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, Kocaeli, Turkey, 4 - 05 May 2018, pp.29-30
13. **The effect of different intake manifold geometries on single-cylinder diesel engine soot formation**

**and performance**

DEMİR Ü., Çetinkaya O., Türkmen A. C. , ÇELİK C.

158th International Conference on Recent Innovations in Engineering and Technology, Tokyo, Japan, 29 - 30 March 2018

14. **Electrochemical Characterization of Carbon-Supported Bimetallic Pd-Zn Nanoparticles as Anode Catalyst for Direct Borohydride Fuel Cells**  
AKAY R. G. , ÖZCAN DOĞAN M., ÇELİK C., AKIN A. N.  
3rd International Hydrogen Technologies Congress (IHTEC-2018), Alanya, Turkey, 15 - 18 March 2018
15. **Novel Pd-Co/C Bimetallic Alloy Electrocatalyst for Direct Borohydride Fuel Cell**  
GÖZLÜ C., ÇELİK C., AKIN A. N. , AKAY R. G.  
3rd International Hydrogen Technologies Congress (IHTEC-2018), Alanya, Turkey, 15 - 18 March 2018
16. **Analysis of a Ground-Source Heat Pump in Thermodynamic Means and The Economic Importance of Heat Pumps**  
YILDIZ Ç., SARAÇ H. İ. , ÇELİK C.  
II. "European Congress on Economic Issues New Trends in Economics", Kocaeli, Turkey, 16 - 18 November 2017, pp.91
17. **Novel Direct Borohydride Fuel Cell membranes based on SPEEK and PBI**  
AKAY R. G. , ATA K. C. , ÇELİK C.  
mESC-IS 2017 2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
18. **International Energy Policies and Reflections of Turkey**  
Çelik C., Yılmaz Genç S., Narçiçek N.  
IV.IMCOFE International Multidisciplinary Congress of Eurasia, İstanbul, Turkey, 23 - 25 August 2017, pp.535-546
19. **Preparation of Carbon supported PdZn Nanoalloy Anode Catalyst for Direct Borohydride Fuel Cell**  
DOĞAN ÖZCAN M., ÇELİK C., AKIN A. N.  
4th Anatolian School of Catalysis (ASC-4), 11 - 14 September 2017
20. **Study on hydrolysis activity of NaBH<sub>4</sub> with Co-B catalysts supported on different activated carbons**  
KİBAR M. E. , ENGİNTEPE E., ÖZDEMİR E., KAPLAN Ö., ÇELİK C., KAYIRAN BEYAZ s., AKIN A. N.  
13 th European Congress on Catalysis – EuropaCat-XIII, 27 - 31 August 2017
21. **Türkiye'nin Enerji Hareketliliği Bağlamında Enerji Tüketimi İle Ekonomik Büyümesi Arasındaki İlişkinin Tespitine Yönelik Bir Değerlendirme**  
Çelik C., Yılmaz Genç S., İnce M. R.  
International Congress Of Management Economy And Policy, İstanbul, Turkey, 20 - 21 May 2017, pp.893-911
22. **TÜRKİYE'NİN ENERJİ HAREKETLİLİĞİ BAĞLAMINDA ENERJİ TÜKETİMİ İLE EKONOMİK BÜYÜMESİ ARASINDAKİ İLİŞKİNİN TESPİTİNE YÖNELİK BİR DEĞERLENDİRME**  
Çelik C., Yılmaz Genç S., İnce M. R.  
International Congress of Management, Economy and Policy, İstanbul, Turkey, 20 - 21 May 2017, pp.893-909
23. **Development of a Direct Borohydride Fuel Cell (DBFC) Consisting of Novel Membrane Electrode Assemblies**  
GÖZLÜ C., AKAY R. G. , ÇELİK C., AKIN A. N.  
nd World Conference On Technology, Innovation and Entrepreneurship, 12 - 14 May 2017
24. **Fluid-Solid Interaction On Wind Turbine Blades**  
YILDIZ F., TURKMEN A. C. , YILDIZ Ç., SARAÇ H. İ. , ÇELİK C.  
III. International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
25. **Autonomous car parking system with various trajectories**  
eşiyok b., türkmen a. c. , KAPLAN Ö., ÇELİK C.  
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS2017), 3 - 07 May 2017
26. **The Effect of Ballistic Investigation on Small Arms Design**  
ÖZYILMAZ Ö., KAPLAN Ö., ÇELİK C.  
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS2017), 3 - 07 May 2017
27. **TERMAL KONFOR DEĞERLENDİRME STRATEJİSİ**

DENİZ F., ÇELİK C.

1. INTERNATIONAL ACADEMIC RESEARCH CONGRESS, 3 - 05 November 2016, pp.329

28. **Analysis of a Priority Flow Control Valve with Hydraulic System Simulation Model**  
Kolcuoğlu T., SOYHAN H. S. , COŞKUN G., ÇELİK C.  
9th International Conference on Sustainable Energy & Environmental Protection, 22 - 25 September 2016, pp.351-358
29. **SOĞUK ORTAMLAR ve İREQ YÖNTEMİ GIDA SEKTÖRÜNDEÖRNEK ÇALIŞMA**  
DENİZ F., ÇELİK C.  
1 INTERNATIONAL ACADEMICRESEARCH CONGRESS, Antalya, Turkey, 3 - 05 November 2016, pp.3300-3305
30. **Modeling the impact of number of fin and material on the heat sink performance with CFD analysis**  
TURKMEN A. C. , YILDIZ F., ÇELİK C., SUNDEN B.  
2nd SOUTH EAST EUROPEAN CONFERENCE ON SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, 15 - 18 June 2016, pp.194
31. **Energy harvesting with the piezoelectric material integrated shoe**  
Türkmen A. C. , ÇELİK C.  
2nd SOUTH EAST EUROPEAN CONFERENCE ON SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, 15 - 18 June 2016, pp.177
32. **Blade profile analysis for wind turbines by ansys software**  
YILDIZ F., TURKMEN A. C. , YILDIZ Ç., ÇELİK C., SARAÇ H. İ.  
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016, pp.1473-1476
33. **MODELLING OF PERFORMANCE AND EXHAUST EMISSIONS OF A GASOLINE ENGINE FUELLED METHANE HYDROGEN USING SVR MODEL**  
ÇELİK C., ACIKGOZ B., SOYHAN H. S. , YABANOVA İ., DEMİRTAŞ V., YUMURTACI M.  
9th International Conference on Sustainable Energy & Environmental Protection, 22 - 25 September 2016, pp.47-54
34. **Modeling in cylinder gas motions in internal combustion engines by using CFD**  
DEMİRTAŞ V., BAYRAKÇEKEN H., ALBAYRAK ÇEPER B., SOYHAN H. S. , ÇELİK C., COŞKUN G., DEMİR Ü.  
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 14 - 16 June 2015
35. **Evaluation of The Renewable Energy Sources by Using AHP and Promethee Multi Criteria Decision Making Methods**  
ÖZKALE C., AKBULUT B., GÜLEÇ P., ÇELİK C.  
16. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu (EYİ2015), 7 - 12 May 2015
36. **Pitch Angle Analysis of NACA 2415 Airfoil**  
YILDIZ F., TURKMEN A. C. , ÇELİK C., SARAÇ H. İ.  
World Congress on Engineering (WCE 2015), London, Canada, 1 - 03 July 2015, pp.1107-1110
37. **Determination of drying characteristics of Turkish pine Pinus brutia woodchips in a screw dryer in various drying conditions**  
KAPLAN Ö., ÇELİK C., OLGUN H., Alkassir A.  
6th International Ege Energy Symposium & Exhibition, İzmir, Turkey, 28 - 30 June 2012
38. **Yakıt Debisinin Doğrudan Borhidrüllü Yakıt Pili Performansı Üzerine Etkisinin İncelenmesi**  
ÇELİK C., BOYACI SAN F. G. , SARAÇ H. İ.  
ULIBTK'09 17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 13 June 2009, pp.1229-1232
39. **Doğrudan Borhidrüllü Yakıt Pili Performansı Üzerine Sodyum Borhidrür Derişimin Etkileri**  
ÇELİK C., BOYACI SAN F. G. , SARAÇ H. İ.  
ULIBTK'09 17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 13 June 2009, pp.1233-1237
40. **Optimum operating strategies for liquid fed direct borohydride fuel cells**  
ÇELİK C., Boyaci San F. G. , SARAÇ H. İ.  
8 th Japan – Korea Symposium on mterials and Interfaces International Symposium on Frontiers in Chemical Engineering, Sapporo, Japan, 5 - 07 November 2008, pp.82
41. **Destruction Analysis Depend On The Wearing With Oil Analysis Program**  
Gökalp B., SARAÇ H. İ. , ÇELİK C.

- 8th International Fracture Conference, İstanbul, Turkey, 7 - 09 November 2007, vol.1, pp.651-664
42. **Doğrudan Sodyum Borhidrürü Yakıt Pili**  
ÇELİK C., SARAÇ H. İ. , BOYACI SAN F. G.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 20 June 2007, vol.2, pp.646-650
43. **Taşıt Radyatörü Isıl Performans Test Sonuçlarının NTU Yöntemi Kullanılarak İrdelenmesi**  
METİN M., PARMAKSIZOĞLU C., SARAÇ H. İ. , ÇELİK C.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 20 June 2007, vol.2, pp.651-655
44. **Farklı İşletim Şartlarının Pd Anot ve Pt Katotlu Doğrudan Sodyum Borhidrürü Yakıt Pili (DSBHYP) Performansı Üzerine Etkisinin İncelenmesi**  
ÇELİK C., BOYACI SAN F. G. , SARAÇ H. İ.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 20 June 2007, vol.2, pp.641-645
45. **Buhar Türbin Tahrikli Pompalarda Enerji Verimliliği**  
YİĞİT K. S. , KAYA D., EREN A. S. , YAĞMUR E. A. , ÇELİK C.  
Enerji verimliliği kongresi, Kocaeli, Turkey, 15 June 2007, pp.223-231

## Academic and Administrative Experience

2020 - Continues	<b>Director of Vocational School</b>	Kocaeli University, Kocaeli Meslek Yüksekokulu
2020 - Continues	<b>Member of the Senate</b>	Kocaeli University, Kocaeli Meslek Yüksekokulu
2017 - Continues	<b>Fakülte Yönetim Kurulu Üyesi</b>	Kocaeli Üniversitesi, Ziraat Ve Doğa Bilimleri Fakültesi
2015 - 2020	<b>Member of the Senate</b>	Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu
2015 - 2020	<b>Director of Vocational School</b>	Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu
2015 - 2016	<b>Fakülte Yönetim Kurulu Üyesi</b>	Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü /İş Sağlığı Ve Güvenliği Anabilim Dalı
2015 - 2015	<b>Director of Vocational School</b>	Kocaeli Üniversitesi, İzmit Meslek Yüksekokulu
2008 - 2014	<b>Erasmus Program Institutional Coordinator</b>	Kocaeli Üniversitesi, Mühendislik Fakültesi / Makine Mühendisliği Bölümü

## Courses

Termik Turbo Makineler, Undergraduate  
Enerji Yönetimi, Undergraduate  
Termodinamik, Undergraduate  
Alternatif Enerji Kaynakları, Undergraduate

## Advising Theses

Çelik C., Pd-Zn KAPLI BAKIR KÖPÜK KULLANIMININ DOĞRUDAN BORHİDRÜR YAKIT PİLİ PERFORMANSINA ETKİSİNİN



İNCELENMESİ, Postgraduate, İ.ÇAĞLAYAN(Student), 2019

Çelik C., Doğrudan borhidrür yakıt pilinde akış kanalı geometrisi ve yakıt debisinin basınç düşümüne etkisi, Postgraduate, G.MENTEŞE(Student), 2019

Çelik C., PALADYUM KAPLI NİKEL KÖPÜK KULLANIMININ DOĞRUDAN BORHİDRÜR YAKIT PİLİ PERFORMANSINA ETKİSİNİN İNCELENMESİ, Postgraduate, B.SARAÇ(Student), 2019

Çelik C., Çalışma Parametrelerinin Tek Hücreli PEM Yakıt Pili Performansına Etkilerinin HAD Metodu ile Üç Boyutlu İncelenmesi, Postgraduate, M.Kılıç(Student), 2018

Çelik C., Gaz Difüzyon Tabalarında Termal İletkenlik Katsayısı Tayini ve Proton Değişim Membran Yakıt Pilinin İzotermal Olmayan Modelinin Geliştirilmesi, Postgraduate, A.Can(Student), 2018

Çelik C., ISO Standartlarına Göre Termal Konfor Şartlarının İncelenmesi: Gıda Endüstrisinde Örnek Çalışma, Postgraduate, F.Deniz(Student), 2017

Çelik C., Çalışma parametrelerinin tek hücreli PEM yakıt pili performansına etkilerinin had metodu ile üç boyutlu incelenmesi, Postgraduate, M.KILIÇ(Student), 2017

Çelik C., Farklı Hava Kanalı Tasarımlarına Sahip Güneş-Hava Kolektörlerinin Performansının Deneysel İncelenmesi, Postgraduate, B.Karabağ(Student), 2016

ÇELİK C., Hidrojen ve Metan Karışımlarının İçten Yanmalı Motorlarda Kullanımının Deneysel Olarak İncelenmesi, Postgraduate, B.Açıkgoz(Student), 2012

ÇELİK C., Helezon Konveyör Tipi Kurutucuda Odun Parçacıklarının Kurutulmasının Deneysel Olarak İncelenmesi, Postgraduate, Ö.Kaplan(Student), 2012

Çelik C., Hafif Silah Tasarımının Balistik Açından İncelenmesi, Postgraduate, Ö.Özyılmaz(Student), 2010

ÇELİK C., Bir Dizel Motorunda Yanma Olayının Analizi, Postgraduate, S.Toksöz(Student), 2010

## Scientific Refereeing

INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, SCI Journal, November 2016

ENERGY CONVERSION AND MANAGEMENT, SCI Journal, August 2016

RSC ADVANCES, SCI Journal, April 2016

FUEL CELLS, SCI Journal, January 2016

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2016

ELECTROCHIMICA ACTA, SCI Journal, January 2016

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, SCI Journal, January 2015

FUEL, SCI Journal, November 2014

FUEL CELLS, SCI Journal, July 2014

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2014

INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, January 2014

ADVANCES IN MECHANICAL ENGINEERING, SCI Journal, July 2013

ELECTROCHIMICA ACTA, SCI Journal, June 2013

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2013

FUEL, SCI Journal, January 2013

JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, SCI Journal, September 2012

FUEL CELLS, SCI Journal, September 2012

INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, June 2012

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, May 2012

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, September 2011

FUEL CELLS, SCI Journal, June 2011

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2010

## Edit Congress and Symposium Activities

International conference on Energy and Advanced Materials-2021 (ICEAM-2021) , Invited Speaker, Uttarpara-Kotrung, India, 2021

2nd International Conference on Energy Materials and Fuel Cell Research, Working Group, Massachusetts, United States Of America, 2018

22nd World Hydrogen Energy Conference, Working Group, Rio-De-Janeiro, Brazil, 2018

158th International Conference on Recent Innovations in Engineering and Technology (ICRIET), IIER 2018, Working Group, Tokyo, Japan, 2018

Fuel Cells and Hydrogen Joint Undertaking Programme Info Day, Working Group, Brussels, Belgium, 2018

IV. International Multidisciplinary Congress of Eurasia, Working Group, Rome, Italy, 2017

Erasmus Staff Exchange Programme/Cracow University of Technology, Working Group, Krakow, Poland, 2017

20. Ulusal Isı Bilimi ve Tekniği Kongresi, Working Group, Balıkesir, Turkey, 2015

The 2015 International Conference of Mechanical Engineering, Working Group, London, United Kingdom, 2015

Fuel Cells and Hydrogen Joint Undertaking Programme Review Days 2015 and Stakeholder Forum, Working Group, Brussels, Belgium, 2015

Erasmus Staff Exchange Programme/Universitatea Din Oradea, Working Group, Oradea, Romania, 2014

Erasmus Staff Exchange Programme/Technische Universität Chemnitz, Working Group, Chemnitz, Germany, 2014

Erasmus Staff Exchange Programme/Institut Galilée-Université Paris13 LSPM CNRS, Working Group, Paris, France, 2013

Erasmus Staff Exchange Programme/Technische Universität Chemnitz, Working Group, Chemnitz, Germany, 2013

UCL Electrochemical Innovation Laboratory Launch and Networking Event, Working Group, London, United Kingdom, 2011

- PEM Fuel Cells Summer School, International Centre for Hydrogen Energy Technologies, July, 19-23, Working Group, İstanbul, Turkey, 2010

ULIBTK'09 17. Ulusal Isı Bilimi ve Tekniği Kongresi, Working Group, Sivas, Turkey, 2009

Yakıt Pili Entegrasyon Deneyimi/Uluslararası Hidrojen Enerjisi Teknolojileri Merkezi, Working Group, İstanbul, Turkey, 2009

Erasmus Staff Exchange Programme/University College Dublin, Working Group, Dublin, Ireland, 2009

1st Asian Conference on Innovative Energy & Environmental Chemical Engineering (ASCON-IEEChE), Working Group, Sapporo, Japan, 2008

ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Working Group, Kayseri, Turkey, 2007

Manufacture of Fuel Cell Components/TÜBİTAK, Marmara Araştırma Merkezi, Enerji Enstitüsü, Working Group, İstanbul, Turkey, 2005

Buhar Tesisatları, Buhar Cihazları ve Enerji Tasarrufu, Working Group, İstanbul, Turkey, 2005

JRC-IE 2005 Enlargement & Integration Workshop, Fuel Cell Test/ Institute for Energy- Joint Research Centreing Aspects, Working Group, Amsterdam, Netherlands, 2005

VI. Ulusal Tesisat Mühendisliği Kongresi ve Sergisi, Teskon, Working Group, İzmir, Turkey, 2003

## Citations

Total Citations (WOS):539

h-index (WOS):12

## Invited Talks

International conference on Energy and Advanced Materials-2021 (ICEAM-2021) , Conference, Jaypee Institute of Information Technology, India, October 2021

## Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Renewable Energy Systems, Energy storage technologies, Hydrogen Technologies and Fuel Cells , Advanced Energy Technologies, Thermodynamics, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Thermal Systems, Thermal machines, Engineering and Technology