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PERSONAL

Date of Birth	1975
Place of Birth	İzmir

EDUCATION

2007-2011	Middle East Technical University, Chemical Engineering, Post-Doc.
2000-2006	Hacettepe University, Chemical Engineering, Ph.D.
1997-2000	Hacettepe University, Chemical Engineering, M.S.
1993-1997	Hacettepe University, Chemical Engineering, B.S.

ACADEMIC POSITIONS

10/2015-Present	Associated Professor, Department of Energy Systems Engineering, Atılım University, Turkey
09/2013-10/2015	Assistant Professor, Department of Energy Systems Engineering, Atılım University, Turkey
01/2008-11/2011	Post-doctoral Researcher, Department of Chemical Engineering, Middle East Technical University, Turkey
01/2007-01/2008	Post-doctoral Fellow, Department of Chemical Engineering, Middle East Technical University, Turkey
09/2000-06/2006	Research Assistant / PhD Student, Department of Chemical Engineering, Middle East Technical University, Turkey
09/1997-06/2000	Research Assistant / M.Sc. Student, Department of Chemical Engineering, Middle East Technical University, Turkey

ADMINISTRATIVE DUTIES

July/2018-Present	ARGEDA-TTO Director, Atılım University
12/2011-09/2013	Project Manager, TEKSIS, METUTECH

PROJECTS

1	TUBITAK 1001-219M333: Development of High Temperature Electrochemical Hydrogen Compressors for High Purity and Pressure Hydrogen Recovery, 2020-2022 (Project coordinator)
2	TUBITAK 1001-119F182: Probabilistic Modeling and Statistical Characteristics

	of a Renewable Hybrid Energy System, 2019-2021 (Project coordinator)
3	TUBITAK 1001-214M301: Design and Development of the High Temperature Fuel Cell Fueled by Reformate Gases for Evaluation of Micro- Cogeneration Application, 2015-2018 .(Project coordinator)
4	EU PROJECT, TUBITAK 1509: Development and Integration of 2 kW HT-PEM Fuel Cell Hybrid System for Ground Utility Vehicles at the Airport, 2015-2018 (Researcher)
	TUBITAK 1002-119M018: Synthesis of Low Cost and High-Performance Co-N-C Type Catalysts for Use in High Temperature Polymer Electrolyte Membrane Fuel Cells (HT-PEMFCs) Electrodes
5	TUBITAK 1511: Development of A Metallic Bipolar Plate for PEM Fuel Cells with Increased Power Density for Use in Defense Industry and Transportation Sectors, 2018-2019 (Researcher)
6	TUBITAK 1513: Atılım University Technology Transfer Offices Grant Programme. .(Project coordinator)
7	TUBITAK 1601: Capacity Building for Innovation and Entrepreneurship Grant Programme- BIGG, 4160039.(Project coordinator)
8	Atılım University ATÜ-ADP-1819/ROKETSAN: Development of Proton Exchange Membrane Based Hydrogen Compressor for High Purity Hydrogen Production From Reformate Gas Mixtures, 2018-2019.(Project coordinator)
9	Atılım University ATÜ-LAP-1920-01/ROKETSAN: Development of Regenerative Fuel Cell System for Space Application (Project coordinator)
10	Atılım University ATÜ-LAP-1819/ROKETSAN: Design of the Liquid Fuel Based Fuel Cell For Air-Independent Propulsion Systems, 2018-2019.(Project coordinator)
11	Atılım University ATÜ-LAP-C-1718-06/ROKETSAN: Development of Ammonia Borane Based Chemical Hydrogen Storage Technique for Fuel Cells Used in Aviation Applications, 2017-2018 .(Project coordinator)
12	ROKETSAN-TEKSIS Development of High Energy Density PEM Fuel Cell, 2016-2017 (Researcher)
13	Atılım University ATÜ-LAP-C-1617-05/ROKETSAN: Development of H ₂ O ₂ Fuel Cell Systems for Aerospace Applications, 2016-2017 .(Project coordinator)
14	Atılım University ATÜ-LAP-C-1516-03: Hydrogen Production from Sodium Borohydride and Development of Sodium Borohydride PEM Fuel Cell, 2015-2016 .(Project coordinator)
15	Dokuz Eylül University BAP: Development and Testing Direct Methanol Fuel Cell with Different Materials, 2016-2018 (Researcher)
16	Dokuz Eylül University BAP: Development of Innovative Fuel Cells Based on Single Wall Carbon Nanotube and Multi Wall Carbon Nanotube, 2018 -2021 (Researcher)
17	Atılım University ATÜ-LAP-1415-02: Development of High-Performance Membrane Electrode Assembly for PEM Fuel Cell and Use In Fuel Cell Powered Scooter Prototype, 2014-2015 .(Project coordinator)
18	TUBITAK-2241/A Development of High-Performance electrodes for Portable PEM Fuel Cells, 2014-2015 (Project coordinator)
19	Ankara Development Agency: Development of PEM Fuel Cell UPS, 2013-2014 (Project coordinator)
20	TUBITAK 1507- Development of 500 W PEM Fuel Cell Generator, 2012-2013

	(Researcher)
21	ICHET International H2-FC projects: Development of 3 kW Fuel Cell system, 2010-2012 (Project coordinator)
22	Atılım University ATÜ-LAP-SD-1314-02: Development of High Performance MEA for PEM Fuel Cell and Prototype Application of Solar Hydrogen Energy Hybrid System, 2013-2014 (Project coordinator)
23	TUBITAK-MAG-109M221: Development of Composite Membranes and Electrocatalyst for PEM Fuel Cells and Investigation of Long-Term Stabilities, 2009-2012 (Researcher)
24	TUBITAK-MAG-104M364: Development of High Temperature Proton Exchange Membrane Fuel Cell, 2008-2005 (Researcher)
25	ODTÜ-BAP-03-04-2008-07: High Temperature Proton Exchange Membrane Fuel Cells, 2008-2010 (Researcher)
26	DPT Project 02K 120 290-16: Synthesis of New Membranes for Proton Exchange Membrane Fuel Cells and Performance Evaluation in Prototype Fuel Cell, 2003-2006 (Researcher)
27	TUBITAK-TBAG-101T188: BIOENG1: Synthesis/ Production/ Characterization Application of Biodegradable Polymer and Composite Biomaterials for Soft and Hard Tissue Therapy and Repair. BIOENG2: Design of the carrier for gene delivery to cells and Cell Culture Applications, 2002-2005 (Researcher)
28	TUBITAK-TBAG-105T509: Tissue Engineering for Biomedical Technology, FP6-SSA-2, 2006-2008 (Researcher)
29	TUBITAK BIDEP: Synthesis and Characterization of Sulfonated Polyarylene Ether Sulfone Membranes for Proton Exchange Membrane Fuel Cell, 2007-2008 (Project coordinator)

PUBLICATIONS

1	Yağmur Budak, Yilser Devrim , Micro-Cogeneration Application of a High-Temperature PEM Fuel Cell Stack Operated with Polybenzimidazole based Membranes, International Journal of Hydrogen Energy (in press). DOI: 10.1016/j.ijhydene.2019.11.173
2	Yilser Devrim and Serkan Eryilmaz_Reliability based evaluation of hybrid wind-solar energy system, Journal of Risk and Reliability, DOI: 10.1177/1748006X20929975
3	Arife Uzundurukan, Muhittin Bilgili, Yilser Devrim , Examination of compression effects on PEMFC performance by numerical and experimental analyses, International Journal of Hydrogen Energy (in press). DOI: 10.1016/j.ijhydene.2020.04.275
4	Yağmur Budak, Yilser Devrim , Evaluation of Hybrid Solar-Wind-Hydrogen Energy System Based on Methanol Electrolyzer, International Journal of Energy Research, in prss. DOI: 10.1002/er.5642
5	Arife, Sağlam, Yilser Devrim , Carbon nanotube-graphene hybrid supported platinum as an effective catalyst for hydrogen generation from hydrolysis of ammonia borane, International Journal of Hydrogen Energy, 44, 49, 2019, 26773-26782.
6	Serkan Eryilmaz, Yilser Devrim , Reliability and optimal replacement policy for a k-out-of-n system subject to shocks, Reliability Engineering & System Safety, 188, 2019, 393-397.

7	Serkan Eryilmaz, Yilser Devrim , Theoretical derivation of wind plant power distribution with the consideration of wind turbine reliability, Reliability Engineering & System Safety, 185, 2019, 192-197.
8	Arife, Sağlam, Yilser Devrim , Hydrogen generation from sodium borohydride hydrolysis by multi-walled carbon nanotube supported platinum catalyst: A kinetic study, International Journal of Hydrogen Energy, 44, 33, 2019, 17586-17594.
9	Yağmur Budak, Yilser Devrim , Comparative study of PV/PEM fuel cell hybrid energy system based on methanol and water electrolysis, Energy Conversion and Management, 179, 2019, 46-57.
10	Yilser Devrim , Elif Damla Arıca, Investigation of the effect of graphitized carbon nanotube catalyst support for high temperature PEM fuel cells, International Journal of Hydrogen Energy, 2019, inpress.
11	Yilser Devrim , Elif Damla Arıca, Multi-walled carbon nanotubes decorated by platinum catalyst for high temperature PEM fuel cell, International Journal of Hydrogen Energy, 2019, 44, 34, 18951-18966.
12	Yagmur Nalbant, C. Ozgur Colpan, Yilser Devrim , Energy and exergy performance assessments of a high temperature-proton exchange membrane fuel cell based integrated cogeneration system, International Journal of Hydrogen Energy, 2019, 43:3578–3589.
13	Güvenç Apaydın, Can Özgür Çolpan, Yilser Devrim , Performance of a HT-PEMFC having a Catalyst with Graphene and Multi-Walled Carbon Nanotube Support, International Journal of Energy Research, 2019;1–12.
14	Yilser Devrim , Ayhan Albostan, Hüseyin Devrim, Experimental investigation of CO tolerance in high temperature PEM fuel cells, International Journal of Hydrogen Energy, 2018, 43, 18672-18681.
15	Yağmur Budak, Yilser Devrim , Investigation of micro-combined heat and power application of PEM fuel cell systems, Energy Conversion and Management, Volume 160, 486-494, 2018
16	Yilser Devrim , Elif Damla Arıca, Ayhan Albostan, Graphene based catalyst supports for high temperature PEM fuel cell application, International Journal of Hydrogen Energy, Volume 43, Issue 26, 11820-11829, 2018.
17	Dilara Gulcin Caglayan, Berna Sezgin, Yilser Devrim , Inci Eroglu, Three-dimensional non-isothermal model development of high temperature PEM Fuel Cells, International Journal of Hydrogen Energy, Volume 43, Issue 23, 10834-10841, 2018
18	Yagmur Nalbant, C. Ozgur Colpan, Yilser Devrim , Development of a one-dimensional and semi-empirical model for a high temperature proton exchange membrane fuel cell, International Journal of Hydrogen Energy, Volume 43, Issue 11, 2018, 5939-5950.
19	Adnan Ozden, Mustafa Ercelik, Yilser Devrim , C. Ozgur Colpan, Feridun Hamdullahpur, Evaluation of sulfonated polysulfone/zirconium hydrogen phosphate composite membranes for direct methanol fuel cells, Electrochimica Acta, Volume 256, Pages 196-210, 2017.
20	Yağmur Özdemir, Nurhan Üregen, Yilser Devrim , Polybenzimidazole based nanocomposite membranes with enhanced proton conductivity for high temperature PEM fuel cells, International Journal of Hydrogen Energy, Volume 42, Issue 4, Pages 2648-2657, 2017.

21	Yağmur Özdemir, Necati Özkan, Yilser Devrim , Fabrication and Characterization of Cross-linked Polybenzimidazole Based Membranes for High Temperature PEM Fuel Cells, <i>Electrochimica Acta</i> , Volume 245, Pages 1-13, 2017.
22	Mustafa Ercelik, Adnan Ozden, Yilser Devrim , C. Ozgur Colpan, Investigation of Nafion based composite membranes on the performance of DMFCs, <i>International Journal of Hydrogen Energy</i> , Volume 42, Issue 4, Pages 2658-2668, 2017.
23	Nurhan Üregen, Kübra Pehlivanoğlu, Yağmur Özdemir, Yilser Devrim , Development of polybenzimidazole/graphene oxide composite membranes for high temperature PEM fuel cells, <i>International Journal of Hydrogen Energy</i> , Volume 42, Issue 4, Pages 2636-2647, 2017.
24	Yilser Devrim , Levent Bilir, Performance investigation of a wind turbine–solar photovoltaic panels–fuel cell hybrid system installed at İncek region – Ankara, Turkey, <i>Energy Conversion and Management</i> , Volume 126, 759-766, 2016
25	Berna Sezgin, Dilara Gulcin Caglayan, Yilser Devrim , Thomas Steenberg, Inci Eroglu, Modeling and sensitivity analysis of high temperature PEM fuel cells by using Comsol Multiphysics, <i>International Journal of Hydrogen Energy</i> , Volume 41, Issue 23, Pages 10001-10009, 2016
26	Yilser Devrim , Hüseyin Devrim, Inci Eroglu, Polybenzimidazole/SiO ₂ hybrid membranes for high temperature proton exchange membrane fuel cells, <i>International Journal of Hydrogen Energy</i> , Volume 41, Issue 23, Pages 10044-10052, 2016.
27	Dilara Gulcin Caglayan, Berna Sezgin, Yilser Devrim , Inci Eroglu, Three-dimensional modeling of a high temperature polymer electrolyte membrane fuel cell at different operation temperatures, <i>International Journal of Hydrogen Energy</i> , Volume 41, Issue 23, Pages 10060-10070, 2016..
28	Yilser Devrim , and Ayhan Albostan, Graphene-Supported Platinum Catalyst-Based Membrane Electrode Assembly for PEM Fuel Cell <i>Journal of Electronic Materials</i> , Volume 45, Issue 8, Pages 3900-3907, 2016
29	Yağmur Özdemir, Nurhan Üregen, Yilser Devrim , Polybenzimidazole based nanocomposite membranes with enhanced proton conductivity for high temperature PEM fuel cells, <i>International Journal of Hydrogen Energy</i> Volume: 42 Issue: 4 Pages: 2648-2657, 2016.
30	Ekin Özgirgin, Yilser Devrim , Ayhan Albostan, Modeling and simulation of a hybrid photovoltaic (PV) module-electrolyzer-PEM fuel cell system for micro-cogeneration applications, <i>International Journal of Hydrogen Energy</i> , Volume 40, Pages 15336-15342, Issue 44, 2015.
31	Levent Bilir, Mehmet İmir, Yilser Devrim , Ayhan Albostan, Seasonal and yearly wind speed distribution and wind power density analysis based on Weibull distribution function, <i>International Journal of Hydrogen</i> , Volume 40, Issue 44, Pages 15301-15310, 2015.
32	Yilser Devrim , Ayhan Albostan, Enhancement of PEM fuel cell performance at higher temperatures and lower humidities by high performance membrane electrode assembly based on Nafion/zeolite membrane, <i>International Journal of Hydrogen Energy</i> , Volume 40, Issue 44, Pages 15328-15335, 2015.
33	Levent Bilir, Mehmet İmir, Yilser Devrim , Ayhan Albostan, An investigation on wind energy potential and small scale wind turbine performance at İncek region – Ankara, Turkey, <i>Energy Conversion and Management</i> , Volume

	103, Pages 910-923, 2015.
34	Yilser Devrim , Kübra Pehlivanoğlu, Design of a hybrid photovoltaic-electrolyzer-PEM fuel cell system for developing solar model, Phys. Status Solidi C, Pages 1–6, 2015.
35	Yilser Devrim , Huseyin Devrim, Inci Eroglu, Development of 500 W PEM fuel cell stack for portable power generators, International Journal of Hydrogen Energy, Volume 40, Issue 24, Pages 7707-7719, 2015.
36	Yilser Devrim , Huseyin Devrim, PEM fuel cell short stack performances of silica doped nanocomposite membranes, International Journal of Hydrogen Energy, Volume 40, Issue 24, Pages 7870-7878, 2015.
37	Yilser Devrim , Fabrication and Performance Evaluation of Hybrid Membrane based on a Sulfonated Polyphenyl Sulfone/Phosphotungstic acid/Silica for Proton Exchange Membrane Fuel Cell at Low Humidity Conditions, Electrochimica Acta, Volume 146, Pages 741-751, 2014.
38	Yilser Devrim , Preparation and testing of Nafion/titanium dioxide nanocomposite membrane electrode assembly by ultrasonic coating technique, Journal of Applied Polymer Science, Volume 131, Issue 15, 2014.
39	Yilser Devrim , Preparation and testing of Nafion/titanium dioxide nanocomposite membrane electrode assembly by ultrasonic coating technique, Journal of Applied Polymer Science, Volume 131, Issue 15, 5 August 2014.
40	Yilser Devrim , Serdar Erkan, Nurcan Baç, İnci Eroğlu, Nafion/Titanium Silicon Oxides Nanocomposite Membranes for PEM Fuel Cells, International Journal of Energy Research, Volume 37, Issue 5, Pages 435–442, 2014.
41	Yilser Devrim , Serdar Erkan, Nurcan Baç, İnci Eroğlu, Improvement of PEMFC performance with Nafion/Inorganic nanocomposite membrane electrode assembly prepared by ultrasonic coating technique, International Journal of Hydrogen Energy, Volume 37, Issue 21, 16748-16758, 2012.
42	Dilek Ergun, Yilser Devrim , Nurcan Baç, İnci Eroğlu, Phosphoric acid doped polybenzimidazole membrane for high temperature PEM fuel cell, Journal of Applied Polymer Science, Special Issue: Membranes, Volume 124, Issue S1, pages E267–E277, 2012.
43	Yilser Devrim , Serdar Erkan, Nurcan Baç, İnci Eroğlu, Preparation and Characterization of Sulfonated Polysulfone/Titanium Dioxide Composite Membranes for Proton Exchange Membrane Fuel Cells, International Journal of Hydrogen Energy, 34, 3467-3475, 2009.
44	Yilser G. Devrim , Pyrolysis Kinetics of Blends of Yeni Çeltik Lignite, Energy Sources, Energy Sources, Part A, 30:238–246, 2008.
45	Yilser G. Devrim , Zakir M.O. Rzaev and Erhan Pişkin, Physically and Chemically Cross-linked Poly [(maleic anhydride-alt-styrene)-co- 2-acrylamido- 2-methyl- 1-propanesulfonic acid]/Poly(ethylene glycol) Proton-Exchange Membranes, Macromol. Chem. Phys., 208, 175–187, 2007
46	Yilser G. Devrim , Zakir M.O. Rzaev and Erhan Pişkin, Functionalization of Isotactic Polypropylene with Citraconic Anhydride, Polymer Bulletin, 59, 4, 447-456, 2007.
47	Yilser G. Devrim , Zakir M.O. Rzaev and Erhan Pişkin, Synthesis and Characterization of Poly [((maleic anhydride)-alt-styrene)- co - (2-acrylamido-2-methyl-1-propanesulfonic acid)], Macromol. Chem. Phys., 207, 111–121,

	2006.
48	Yilser Gldođan , Sinan Eđri, Zakir M.O. Rzaev and Erhan Piřkin, Comparison of Maleic Anhydride Grafting onto Powder and Granular Polypropylene in Melt by Reactive Extrusion, Journal of Applied Polymer Science, Vol. 92, 3675–3684, 2004.
49	Yilser Gldođan , Tlay Durusoy and Tijen zbař Bozdemir, Effect of heating rate and particle size on pyrolysis kinetics of Gediz lignite, Energy Sources, 24, 8, 753-760, 2002.
50	Yilser Gldođan , Vural Evren, Tlay Durusoy, Tijen zbař Bozdemir, Effects of heating rate and particle size on the pyrolysis kinetics of Mengen lignite, Energy Sources, 23, 377-344, 2001.
51	Yilser Gldođan , Tijen zbař Bozdemir and Tlay Durusoy, Pyrolysis kinetics of blends of Gediz lignite with Denizli peat, Energy Sources, 23, 393-400, 2001.
52	Yilser Gldođan , Tlay Durusoy and Tijen zbař Bozdemir, Pyrolysis kinetics of blends of Mengen lignite with Denizli peat, Energy Sources, 23, 59-65, 2001.
53	Yilser Gldođan , Tijen zbař Bozdemir and Tlay Durusoy, Effect of heating rate on pyrolysis kinetics of Tunçbilek lignite”, Energy Sources, 22, 305-312, 2000.
54	Yilser Gldođan , Tlay Durusoy and Tijen zbař Bozdemir, Pyrolysis kinetics of blends of Tunçbilek lignite with Denizli peat, Thermochemica Acta, 75-81, 1999.

PATENTS

1	2016/16570-Yksek Sıcaklıkta alıřabilen Proton İletken Zarlı Yakıt Hcreleri iin Hibrid Zarların Geliřtirilmesi.
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HONORS&AWARDS

1	Mustafa Parlar Technology Encouragement Award, 2019.
2	TUBITAK- Project Performance Award, 2019
3	2 nd prize, Project Competition (Energy), Seluk University, 2017
4	1 st , Best presentation Award, 10 th International Clean Energy Symposium (ICES), 2016
5	3 rd prize, Project Competition, Seluk University, 2016
6	2 nd prize, Best Presentation Award, 4. International Istanbul Smart Grid Congress and Fair, 2015
7	2 nd prize, Project Competition, ICEM 2014, International Conference on Energy and Management, 2014
8	TUBITAK-Post doctorate Scholarship, TUBITAK, 2007-2008
9	TUBITAK-Doctoral Scholarship, TUBITAK, 2001-2004

CONFERENCE PRESENTATIONS (INTERNATIONAL)

1	Yilser Devrim , Serkan Eryılmaz, Reliability Evaluation of a Renewable Hybrid Energy System, 11th International Conference on Mathematical Methods in Reliability (MMR2019) from 3-7 June, Hong Kong 2019.
2	Arife Uzundurukan, Muhittin Bilgili, Yilser Devrim , Investigation of Compression Pressure Distribution of Proton Exchange Membrane Fuel Cell, 4rd International Hydrogen Technologies Congress, Edirne, Turkey, (Oral presentation), 2019.
3	Yağmur Budak, Hüseyin Devrim, Yilser Devrim , Design, Manufacturing and Testing of High Temperature PEM Fuel Cell Stack, 4rd International Hydrogen Technologies Congress, Edirne, Turkey, (Oral presentation), 2019.
4	Elif Seda Akça, Arife Uzundurukan, Yilser Devrim , Development of the Liquid Fuel Based Fuel Cell for Air-Independent Propulsion Systems, 4rd International Hydrogen Technologies Congress, Edirne, Turkey, (Oral presentation), 2019.
5	A Görkem Yalın, Yilser Devrim , Can Özgür Çolpan, Tahir Hikmet Karakoç, Hybridization of Fuel Cell Powered Unmanned Aerial Vehicle. 10th International Exergy, Energy and Environment Symposium (IEEES-10), Central Mining Institute, Katowice, Poland, (Oral presentation), 2018
6	Elif Damla Arıca, Yilser Devrim , Microwave Assisted Synthesis of Pt/MWCNT Catalyst for High Temperature PEM Fuel Cell, 3rd International Hydrogen Technologies Congress, p:32, Alanya, Turkey, (Oral presentation), 2018
7	Güvenç Umur Alpaydın, Elif Damla Arıca, Yilser Devrim , Can Özgür Çolpan, Synthesis and Characterization of Electrocatalyst with Graphene and Multi-Walled Carbon Nanotube Support Material, 3rd International Hydrogen Technologies Congress, p:71, Alanya, Turkey, (Oral presentation), 2018
8	Celal Yılmaz, Muhittin Bilgili, Yilser Devrim , Effect of Bipolar Plate Gas Flow Channel Pattern on Proton Exchange Membrane Fuel Cells Performance, 3rd International Hydrogen Technologies Congress, p:32, Alanya, Turkey, (Oral presentation), 2018
9	Yağmur Nalbant, Can Özgür Çolpan, Yilser Devrim , Development of a Mathematical Model for a HT-PEMFC Stack Based Cogeneration System, 3rd International Hydrogen Technologies Congress, p: 40, Alanya, Turkey, (Oral presentation), 2018
10	Yilser Devrim , Kübra Pehlivanoglu, Ömer Erdemir, Celal Yılmaz, Hüseyin Devrim, Development of Effective Cooling System for High Temperature PEM Fuel Cell, 3rd International Hydrogen Technologies Congress, p:33, Alanya, Turkey, (Oral presentation), 2018
11	Arife Sağlam, Elif Damla Arıca, Yilser Devrim , Investigation of Hydrogen Generation from Sodium Borohydride Hydrolysis Reaction with Different Catalyst, 3rd International Hydrogen Technologies Congress, p:88, Alanya, Turkey, (Oral presentation), 2018
12	Yilser Devrim , Hüseyin Devrim, Ayhan Albostan, Experimental Investigation of CO Tolerance in High Temperature PEM Fuel Cells, mESC-IS, 2nd Int. Symposium on Materials for Energy Storage and Conversion Ortahisar, Cappadocia. (Oral Presentation), 2017

13	Yilser Devrim , Kübra Pehlivanoglu, Ömer Erdemir, Hüseyin Devrim, Design and Development of High Temperature PEM Fuel Cell for Airport Ground Handling Operations, mESC-IS, 2nd Int. Symposium on Materials for Energy Storage and Conversion Ortahisar, Cappadocia. (Oral Presentation), 2017
14	Y. Devrim , Y. Özdemir, and A. Albostan, Graphene based catalyst supports for high temperature PEM fuel Cell, HYPOTHESIS XII, HYdrogen POWer THEoretical and Engineering, Solutions International Symposium, L-32, L-32, 104, Siracusa – Italy (Oral Presentation), 2017
15	Yagmur Nalbant, Can Ozgur Colpan, Yilser Devrim , Development of a semi-empirical model for a high temperature proton exchange membrane fuel cell, The 9th Exergy, Energy and Environment Symposium, Split, Croatia, 454-461 (Oral Presentation), 2017
16	Yilser Devrim , Kübra Pehlivanoglu, Ayhan Albostan, Design and Analysis of Solar – Unitized Fuel Cell Hybrid System, Inerma - International Energy Raw Materials and Energy Summit, Istanbul, Turkey. (Oral Presentation), 2017
17	Alper Karakoç, İlgı Demirci, Ayhan Albostan, Yilser Devrim , Power Improvement Strategies of Çayırhan Power Plant, Inerma - International Energy Raw Materials and Energy Summit, Istanbul, Turkey. (Poster Presentation), 2017
18	Kübra Pehlivanoglu, Yilser Devrim , Design of A Solar - High Temperature Pem Fuel Cell Hybrid System for Micro Combined Heat and Power Application For Renewable Energy Communities, International Conference On Engineering Technology And Innovation, p.93 Sarajevo Bosnia and Herzegovina (Oral Presentation), 2017
19	Berna Sezgin, Dilara Gülçin Çağlayan, Yilser Devrim , İnci Eroğlu, Three-Dimensional Nonisothermal Model Development of High Temperature PEM Fuel Cells, The Second International Hydrogen Technologies Congress (IHTEC-2017), p.17, Adana, Turkey (Oral Presentation) , 2017
20	Yağmur Budak, Yağmur Özdemir, Yilser Devrim , Investigation of Working Temperature Effect on Micro-Cogeneration Application of Proton Exchange Membrane Fuel Cell, The Second International Hydrogen Technologies Congress (IHTEC-2017), p.17, Adana, Turkey, (Oral Presentation), 2017
21	Yağmur Özdemir, Necati Özkan, Yilser Devrim , Fabrication of cross-linked Polybenzimidazole membranes for high temperature PEM fuel cells and investigation of the amount of cross-linker used on membrane performance, The Second International Hydrogen Technologies Congress (IHTEC-2017), Adana, Turkey, p.17, (Oral Presentation), 2017
22	Mustafa Ercelik, Yagmur Ozdemir, Adnan Ozden, Yilser Devrim , Can Ozgur Colpan, Feridun Hamdullahpur, Performance Investigation of Zirconium Hydrogen Phosphate / Sulphonated Polysulfone Composite Membrane Based DMFCs, The Second International Hydrogen Technologies Congress (IHTEC-2017), p.17, Adana, Turkey (Oral Presentation), 2017
23	Yilser Devrim , Yağmur Özdemir, İnci Eroğlu, Investigation of Electrode Structure on High Temperature PEM Fuel Cell Performance, 10th International Clean Energy Symposium (ICES), İstanbul Turkey (Oral Presentation), 2016
24	Berna Sezgin, Dilara Gülçin Çağlayan, Yilser Devrim , İnci Eroğlu, Modeling and Sensitivity Analysis of High Temperature PEM Fuel Cells - Mesh Convergence Study, 10th International Clean Energy Symposium (ICES),

	İstanbul Turkey (Oral Presentation), 2016
25	M. Ercelik, A. Ozden, Y. Devrim , C. O. Colpan, Investigation of Nafion/SiO ₂ and Nafion/TiO ₂ composite membranes for the DMFC applications”, 8th International Exergy, Energy and Environment Symposium (IEEES-8), Antalya, Turkey (Oral Presentation), 2016
26	Yilser Devrim , Kübra Pehlivanoglu, Ayhan Albostan, Inci Eroglu, Development of Graphene Oxide Supported Platinum Catalyst For High Temperature PEM Fuel Cell, World Hydrogen Energy Conference 2016 (WHEC 2016), Zaragoza Spain, (Poster Presentation), 2016
27	Nurhan Üregen, Yagmur Özdemir, Yilser Devrim , Fabrication and Performance Evaluation of Polybenzimidazole/Graphene Oxide Composite Membrane for High Temperature Proton Exchange Membrane Fuel Cell, World Hydrogen Energy Conference 2016 (WHEC 2016), Zaragoza Spain (Oral Presentation), 2016
28	Berna Sezgin, D. Gulcin Caglayan, Yilser Devrim , Inci Eroglu, Modeling And Sensitivity Analysis of High Temperature Pem Fuel Cells By Using Comsol Multiphysics, World Hydrogen Energy Conference 2016 (WHEC 2016), Zaragoza Spain (Oral Presentation), 2016
29	D. Gulcin Caglayan, Berna Sezgin, Yilser Devrim , Inci Eroglu, Three-Dimensional Modeling of a High Temperature PEM Fuel Cell for Different Flow Channel Geometries, World Hydrogen Energy Conference 2016 (WHEC 2016), Zaragoza Spain (Oral Presentation), 2016
30	Yilser Devrim , Kubra Pehlivanoglu, Design of Unitized Regenerative Fuel Cell Hybrid System With Solar Energy Storage, 192., İstanbul'da “Uluslararası Solar Tr2016 (Oral Presentation).p:192-198, 2016
31	Yilser Devrim , Huseyin Devrim, Inci Eroglu, Polybenzimidazole/silica hybrid membranes for high temperature PEM fuel cells mESC-IS 2015, International Symposium on Materials for Energy Storage and Conversion, (Oral presentation), 2015
32	Dilara Gülçin Çağlayan, Berna Sezgin, Yilser Devrim , İnci Eroğlu, Modeling of polymer electrolyte membrane fuel cell and sensitivity analysis, International Symposium on Materials for Energy Storage and Conversion, (Oral presentation), 2015
33	Berna Sezgin, Dilara Gülçin Çağlayan, İnci Eroğlu, Yilser Devrim , Modeling and sensitivity analysis of high temperature PEM Fuel cells by using comsol multiphysics, International Symposium on Materials for Energy Storage and Conversion (Poster presentation), 2015
34	Thomas Steenberg, Hans Aage Hjuler, Hector Rodrigo Garcia, Yilser Devrim , Huseyin Devrim and Omer Erdemir, Development of a commercial HT-PEM fuel cell stack module, International Symposium on Materials for Energy Storage and Conversion (Oral presentation), 2015
35	Yilser Devrim , Ayhan Albostan, Development of Graphane Oxide Supported Platinum Catalyst Based Membrane Electrode Assembly for PEM Fuel Cell, III. European Conference on Renewable Energy Systems, Kemer, Antalya, Turkey (Oral presentation),2015
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3	Arife Sağlam, Yilser Devrim , Çok Duvarlı Karbon Nanotüp-Grafen Hibrit Destek Malzemesi Üzerine Desteklenmiş Platin Katalizörün Amonyum Borandan Hidrojen Üretimine Etkisinin İncelenmesi, 30. Ulusal Kimya Kongresi, 5-8 Kasım 2018/Gazimağusa, KKTC, S-226.
4	Ceren Ceylan, Yilser Devrim , 0048-PEM Fuel Cell Based Hybrid Energy System For Greenhouse Applications, SolarTR 2018 conference, Istanbul, November 29-30, p 74.
5	Yağmur Budak, Ekin Özgirgin Yapıcı, Yilser Devrim , Investigation og Micro Kojeneration Application of Proton Exchange Membrane Fuel Cells, 21. National Heat Science and Technique Congress, Çorum, Turkey, 2017
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7	Elif Damla Arica, Yilser Devrim , Preparation of Pt/Carbon Nanotube Composite Electrocatalyt for Proton Exchange Membrane Fuel Cell, 29. National, Chemistry congress, Ankara, Turkey, 2017
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RESEARCH INTERESTS

1	Renewable Energy Systems
2	Fuel Cells and Proton Exchange Membrane Fuel Cells
4	Hydrogen Energy
5	Polymer synthesis and characterization
6	Design of the PEM Fuel Cell Stack
7	Solar Energy Technologies
8	Hybrid Energy Systems
9	Electrochemical Hydrogen Production

PROFESSIONAL SERVICE

1	23rd World Hydrogen Energy Conference (WHEC2020) 5-9 July 2022, Istanbul, Turkey, Organizing Committee.
2	INTERNATIONAL SCIENTIFIC BOARD, HYPOTHESIS XIII Conference Singapore July 24-27, 2018.
3	INTERNATIONAL SCIENTIFIC BOARD, 7th GLOBAL CONFERENCE ON GLOBAL WARMING-2018 (GCGW-2018)
4	V. International Scientific Committee, Fourth European Conference on Renewable Energy Systems (ECRES2016), Istanbul/Turkey on 27-30 August 2017.
5	Local Advisory Board, The Second International Hydrogen Technologies Congress (IHTEC-2017), 15-18 March, 2017, Adana, Turkey.
6	IV. International Scientific Committee, Fourth European Conference on Renewable Energy Systems (ECRES2016), Istanbul/Turkey on 28-31 August 2016.
7	The 6th International Multi-Conference on Engineering and Technological Innovation: IMETI 2013 July 9 - 12, Orlando, Florida, USA.
8	The 7th International Multi-Conference on Engineering and Technological Innovation: IMETI 2014, July 15 - 18, 2014 – Orlando, Florida, USA.
9	International Conference on Engineering and Meta-Engineering: ICEME 2010, April 6th - 9th, 2010 – Orlando, Florida, USA.
10	UKMK-11, National Chemical Engineering Conference, 2-5 September, 2014, Eskisehir, Turkey.
11	2014 Global Conference on Polymer and Composite Materials (PCM 2014) , (4), China, (2014).

12	Coordination Office, 11 th Int. Symp. on Biomedical Science & Technology Days, September 2004, Turkey/Ankara.
13	Journal Reviewer, Electrochimica Acta
14	Journal Reviewer, International Journal of Hydrogen Energy
15	Journal Reviewer, Journal of Membrane Science
16	Journal Reviewer, Journal of Applied Polymer Science
17	Journal Reviewer, Polymer Bulletin
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19	Journal Reviewer, Fuel
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CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	1027
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COURSES GIVEN

1	Energy System Engineering I
2	Energy System Engineering II
3	Heat Transfer
4	Heat and Mass Transfer
5	Fuel Cell Technology
6	Hydrogen Technology
7	Solar Energy Technologies
8	Energy Systems Design Project I
9	Energy Systems Design Project II

THESES SUPERVISED

1	MS Thesis: "Development of Self-Humidifying Membrane Electrode Assembly for PEM Fuel Cell", Umut Baki Çağan, 2013–2015.
2	MS Thesis: "Modelling a High Temperature PEM Fuel Cell", Berna Sezgin, 2014–2016.
3	MS Thesis: "Investigation of Temperature Profile in High Temperature PEM Fuel Cell", Dilara Gülçin Çağlayan, 2014–2016.
4	MS Thesis: "Development and Characterization of PBI Composite and Crosslinked Membranes for High Temperature PEM Fuel Cell Applications", Yağmur Özdemir, 2015–2019.
5	MS Thesis: "Modeling and Simulation of High Temperature Proton Exchange Membrane Fuel Cell Based Cogeneration Systems", Yağmur Nalbant, 2016-2018.
6	MS Thesis: "Design and Development of High Temperature PEM Fuel Cell Flow Channel", Celal Yılmaz, 2016-2018.
7	MS Thesis: "Investigation of Contact Pressure of PEM Fuel Cell", Arife Sağlam, 2017-2019.
8	MS Thesis: "Design Manufacturing and Testing of High-performance proton Exchange Membrane Fuel cell stack", Yağmur Budak, 2017-2019.
9	MS Thesis: "Design and Optimization of Solar Based Hybrid Power System", Ceren Ceylan, 2018- Present.
10	MS Thesis: "Development of High-Performance Bimetallic Catalysts for Proton Exchange Membrane Fuel Cell" Mogdam Gassy Hu Al-Tememy, 2018-2020.
11	MS Thesis: Development of Non-Noble (Co-N/Mwcnt) And Polybenzimidazole Modified (Pt-PBI/MWCNT) Electrocatalysts For High-Temperature PEM Fuel Cell Applications, Enes Oğuzhan Eren, 2017-2020.
12	MS Thesis: "Development of High-Performance Composite Membrane for Proton Exchange Membrane Fuel Cell", Dedar Emad Hussin, 2018-Present.
13	MS Thesis: "Investigation of Hydrogen Production from Sodium Boron Hydride Hydrolysis with Supported Metal Catalyst", Tuqa Majeed Hameed Al-Msrhad, 2019-Present
14	PhD Thesis: "Development of a Composite Materials Based Fuel Cell through Modeling and Experimental Studies", Güvenç Umur Alpaydın, 2017-Present.
15	PhD Thesis: "Development of platinum-containing electrocatalysts supported on Hybrid Material for PEM Fuel Cells", Ahmed Yaseen Al- Janabi, 2019-Present.
16	PhD Thesis: Development of High-Performance Electrochemical Hydrogen Compressor Throuh Theoretical and Experimental Studies, Gizem Nur Bulanık Durmuş, 2019-Present
17	PhD Thesis: "Heat Management of PEM Fuel Cell for Space Application", Yağmur Budak, 2019-Present