Yılser DEVRİM, Ph.D.

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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

03/2021-Present	Professor, Department of Energy Systems Engineering, Atılım University, Turkey
10/2015-02/2021	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

2022-Present	Dean of School of Engineering, Atilim University
2025-Present	Chairman of the board of MŞMM
2023- Present	Board member of Metal Forming and Center of Excellence (MŞMM)
2019-Present	Atilim University Quality Commission Member
2024-Present	Atılım University Ethics Committee Chairman
2021-2024	Atilim University Ethics Committee Member
2018-Present	Atilim University Research Board Member
2018-2022	Director, Directorate of ARGEDA Technology Transfer Office, Atilim University
2018-2022	Executive Board Member of ARGEDA-TTO Directorate
2017-Present	Atilim University Scientific Publication Awards Commission
2017-2022	Energy System Engineering Department Erasmus Coordinator
2018-Present	Energy System Engineering Department Collaborative Education Coordinator

HONORS&AWARDS

Professor Devrim is on the list of the “Most Influential Scientists in the World” in the “Career-long Effect” and “Annual Effect” categories with updated data from the years 2021, 2022, 2023 and 2024 compiled under the guidance of John P. A. Ioannidis.

1. Nezat Veziroğlu Special Award, Hydrogen Technologies Award, 2022.
2. ISIF 21, TURK Patent, Gold Medal, 2021
3. Mustafa Parlar Technology Encouragement Award, 2019.
4. TUBITAK- Project Performance Award, 2019
5. Atılım University Scientific Publication Awards, 2020
6. Atılım University Scientific Publication Awards, 2019
7. Atılım University Scientific Publication Awards, 2018
8. Atılım University Scientific Publication Awards, 2017
9. 2nd prize, Project Competition (Energy), Selçuk University, 2017
10. 1st, Best presentation Award, 10th International Clean Energy Symposium (ICES), 2016
11. 3rd prize, Project Competition, Selçuk University, 2016
12. 2nd prize, Best Presentation Award, 4. International Istanbul Smart Grid Congress and Fair, 2015

13. 2nd prize, Project Competition, ICEM 2014, International Conference on Energy and Management, 2014
14. TUBITAK-Post-doctorate Scholarship, TUBITAK, 2007-2008
15. TUBITAK-Doctoral Scholarship, TUBITAK, 2001-2004

CITATIONS

Web of Science Number of Citations (Without self-citation)	3319 (3115)
H-index (ISI Web of Science):	36
Citations (Google Scholar)	4663
H-index (Google Scholar):	41

PROJECTS

37	**TUBITAK International 2516 NRF-NRF/MSIT Research Project, 123N342:** Investigation of Hydrogen Production Performance from Seawater By Desalination-Anion Exchange Membrane Electrolysis Coupled Technology, (Project coordinator)
36	**TUBITAK 1001-123M878:** Development of Innovative Membranes for Anion Exchange Membrane Electrolyzer and Investigation of Hydrogen Production Performance, 2023-2026, (Project coordinator)
35	**TUBITAK 1001-219M333:** Development of High Temperature Electrochemical Hydrogen Compressors for High Purity and Pressure Hydrogen Recovery, 2020-2022 (Project coordinator)
34	**TUBITAK 1001-119F182:** Probabilistic Modeling and Statistical Characteristics of a Renewable Hybrid Energy System, 2019-2021 (Project coordinator)
33	**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)
32	**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)
31	**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
30	**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)

29	**TUBITAK 1513:** Atılım University Technology Transfer Offices Grant Program (Project coordinator)
28	**TUBITAK 1601:** Capacity Building for Innovation and Entrepreneurship Grant Programme-BIGG, 4160039 (Project coordinator)
27	**Atılım University ATÜ-LAP-2425-01:** Preparation of Ion-Conductive Membranes For Sustainable Green Hydrogen Production With Anion Exchange Membrane Water Electrolyzers, 2024-2025, (Project coordinator)
26	**Atılım University ATÜ-LAP-2324-01:** Development of Nanocomposite Membranes For Pem Fuel Cells And Investigation of Their Performance, 2023-2024, (Project coordinator)
25	**Atılım University ATÜ-LAP-2223-01:**PEM Fuel Cell System Design for Hydrogen Electric Car, 2022-2023 (Project coordinator)
24	**Atılım University ATÜ-ADP-2021-01:** Development of High Performance Membrane Electrode Assembly for Dual Function Unitized Electolyzer-Fuel Cell, 2020-2021, (Project coordinator)
23	**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)
22	**Atılım University ATÜ-LAP-2021-01:** Preparation of Low Cost and High-Performance Catalysts for High Temperature PEM Fuel Cells. (Project coordinator)
21	**Atılım University ATÜ-LAP-1920-01/ROKETSAN:** Development of Regenerative Fuel Cell System for Space Application (Project coordinator)
20	**Atılım University ATÜ-LAP-1819/ROKETSAN:** Design of the Liquid Fuel Based Fuel Cell for Air-Independent Propulsion Systems, 2018-2019 (Project coordinator)
19	**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)
18	**ROKETSAN-TEKSIS** Development of High Energy Density PEM Fuel Cell, 2016-2017 (Researcher)
17	**Atılım University ATÜ-LAP-C-1617-05/ROKETSAN:** Development of H_2O_2 Fuel Cell Systems for Aerospace Applications, 2016-2017 (Project coordinator)
16	**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)
14	**Dokuz Eylül University BAP:** Development of Innovative Fuel Cells Based on Single Wall Carbon Nanotube and Multi Wall Carbon Nanotube, 2018 -2021 (Researcher)

13	**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)
12	**TUBITAK-2241/A** Development of High-Performance electrodes for Portable PEM Fuel Cells, 2014-2015 (Project coordinator)
11	**Ankara Development Agency:** Development of PEM Fuel Cell UPS, 2013-2014 (Project coordinator)
10	**TUBITAK 1507**-Development of 500 W PEM Fuel Cell Generator, 2012-2013 (Researcher)
9	**ICHET International H2-FC projects:** Development of 3 kW Fuel Cell system, 2010-2012 (Project coordinator)
8	**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)
7	**TUBITAK-MAG-109M221:** Development of Composite Membranes and Electrocatalyst for PEM Fuel Cells and Investigation of Long-Term Stabilities**,** 2009-2012 (Researcher)
6	**TUBITAK-MAG-104M364:** Development of High Temperature Proton Exchange Membrane Fuel Cell, 2008-2005 (Researcher)
5	**ODTÜ-BAP-03-04-2008-07:** High Temperature Proton Exchange Membrane Fuel Cells, 2008-2010 (Researcher)
4	**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)
3	**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)
2	**TUBITAK-TBAG-105T509:** Tissue Engineering for Biomedical Technology, FP6-SSA-2, 2006-2008 (Researcher)
1	**TÜBITAK BIDEP:** Synthesis and Characterization of Sulfonated Polyarylene Ether Sulfone Membranes for Proton Exchange Membrane Fuel Cell, 2007-2008 (Project coordinator)

RESEARCH INTERESTS

1	Renewable Energy Systems
2	Fuel Cells and Proton Exchange Membrane Fuel Cells
4	Hydrogen Energy
5	Polymer Synthesis and Characterization

6	Catalyst Synthesis and Characterization
7	Design of the PEM Fuel Cell Stack
8	Solar Energy Technologies
9	Hybrid Energy Systems
10	Electrochemical Hydrogen Production
11	Electrochemical Hydrogen Purification
12	Green Hydrogen Production

PATENTS

1. 2016/16570-Yüksek Sıcaklıkta Çalışabilen Proton İletken Zarlı Yakıt Hücreleri için Hibrid Zarların Geliştirilmesi.
2. TR 2021 019653 B: Yüksek Sıcaklık Elektrokimyasal Hidrojen Kompresörleri için Entegre Gaz Dağıtım Plakası
3. 2022/003358-Design of new supported binuclear platinum(III) catalysts containing sulphato or hydrogenphosphate bridge ligand for electrochemical power systems (review process continues).
4. PCT/TR2022/051415, Integrated Gas Distribution Plate for High-Temperature Electrochemical Hydrogen Compressors (review process continues).
5. PCT/TR2023/050208, Design of new supported binuclear platinum(III) catalysts containing sulphato or hydrogenphosphate bridge ligand for electrochemical power systems (review process continues).

SCI PUBLICATIONS

81	Reyhan Atabay Öztürk, **Yılser Devrim**, Optimal design and technoeconomic analysis of on-site hydrogen refueling station powered by wind and solar photovoltaic hybrid energy systems, Renewable Energy, Volume 245, 2025, 122788, https://doi.org/10.1016/j.renene.2025.122788.
80	Ceren Celebi, C. Ozgur Colpan, **Yilser Devrim**, Performance assessment of anion exchange electrolyzer with PBI-BASED membrane through 0-D modeling, International Journal of Hydrogen Energy, Volume 143, 2025, Pages 1295-1306, https://doi.org/10.1016/j.ijhydene.2025.01.422
79	Sabarish Radoor, Jasila Karayil, **Yılser Devrim,** Hern Kim, Polyethyleneimine functionalized waste tissue paper@waste PET composite for the effective adsorption and filtration of organic dyes from wastewater, Sustainable Materials and Technologies, Volume 45, 2025, e0149, https://doi.org/10.1016/j.susmat.2025.e01494.

78	**Yılser Devrim**, C. Ozgur Colpan, Assessment of polybenzimidazole/MOF composite membranes for the improvement of high-temperature PEM fuel cell performance,International Journal of Hydrogen Energy, Volume 58, 8 March 2024, Pages 470-478, https://doi.org/10.1016/j.ijhydene.2024.01.184
77	Eryilmaz, Serkan, Bulanik, Irem, **Devrim, Yilser,** Computing reliability indices of a wind power system via Markov chain modeling of wind speed, Proceedings of the Instıtutıon of Mechanical Engineers Part O-Journal of Risk And Reliability, 238 (1) , 71-78, 2024, 10.1177/1748006X221133601.
76	Gizem Nur Bulanık Durmuş, Cemil Kuzu, **Yılser Devrim**, C. Ozgur Colpan, Experimental and modeling studies of a high-temperature electrochemical hydrogen compressor, International Journal of Hydrogen Energy, Volume 51, Part D, 2 January 2024, 290-301, https://doi.org/10.1016/j.ijhydene.2023.04.235
75	Ehsan Baniasadi , Fateme Ghojavand , Can Ozgur Colpan, **Yilser Devrim**, Performance Analysis of a Gas-to-Power System based on Protonic-Ceramic Electrochemical Compressor, International Journal of Hydrogen Energy, Volume 48, Issue 94, 5, 2023, 36836-36848, https://doi.org/10.1016/j.ijhydene.2023.06.071
74	Serkan Eryilmaz, Maria Kateri and **Yilser Devrim**, Statistics and Probability Theory in Renewable Energy: Teaching and Research, 39 (5) ,720-729, 2023, Appl Stochastic Models Bus Ind., https://doi.org/10.1002/asmb.2782
73	Gizem Nur Bulanık Durmuş, Cemil Kuzu, **Yılser Devrim**, C. Ozgur Colpan, Experimental and modeling studies of a high-temperature electrochemical hydrogen compressor, International Journal of Hydrogen Energy, Volume 51, Part D, 2 January 2024, 290-301, https://doi.org/10.1016/j.ijhydene.2023.04.235
72	Ceren Ceylan, **Yılser Devrim**, Green hydrogen based off-grid and on-grid hybrid energy systems, International Journal of Hydrogen Energy, Volume 48, Issue 99, 25 December 2023, 39084-39096, https://doi.org/10.1016/j.ijhydene.2023.02.031
71	İlay Bilge Bal, Gizem Nur Bulanık Durmuş, **Yılser Devrim**, Fabrication and performance evaluation of graphene-supported PtRu electrocatalyst for high-temperature electrochemical hydrogen purification, Volume 48, Issue 63, 26 July 2023, 24369-24384, International Journal of Hydrogen Energy, https://doi.org/10.1016/j.ijhydene.2023.03.256
70	Gizem Nur Bulanık Durmuş, Enis Oğuzhan Eren, **Yılser Devrim**, C. Ozgur Colpan, Necati Özkan, High-temperature electrochemical hydrogen separation from reformate gases

	using PBI/MOF composite membrane, 2023, International Journal of Hydrogen Energy, Volume 48, Issue 60, 2023, 23044-23054, https://doi.org/10.1016/j.ijhydene.2023.03.192
69	Güvenç Umur Alpaydin, Gizem Nur Bulanik Durmuş, Can Özgür Colpan, **Yılser Devrim**, Mathematical modeling of a direct dimethyl ether fuel cell, Int J Energy Res. 2022; 46(9): 11989- 12002. doi:10.1002/er.7966.
68	Berna Sezgin, **Yilser Devrim**, Tayfur Ozturk, Inci Eroglu, Hydrogen Energy Systems for Underwater, Applications, International Journal of Hydrogen Energy, 2022 47, 45, 19780-19796, https://doi.org/10.1016/j.ijhydene.2022.01.192.
67	**Yılser Devrim,** Gizem Nur Bulanık Durmuş, Composite membrane by incorporating sulfonated graphene oxide in polybenzimidazole for high-temperature proton exchange membrane fuel cells, International Journal of Hydrogen Energy, 2022, 10.1016/j.ijhydene.2021.12.257.
66	Enis Oğuzhan Eren, Necati Özkan, **Yılser Devrim,** Preparation of polybenzimidazole/ZIF-8 and polybenzimidazole/UiO-66 composite membranes with enhanced proton conductivity, International Journal of Hydrogen Energy, 2021, Volume 47, Issue 45, 26 May 2022, 19690-19701, https://doi.org/10.1016/j.ijhydene.2021.11.045
65	Gizem Nur Bulanık Durmus, C.Ozgur Colpan, **Yılser Devrim**, Investigation of the performance of high-temperature electrochemical hydrogen purification from reformate gases, Int J Energy Res. 2022; 46(8): 11443- 11455. doi:10.1002/er.7940
64	Dedar Emad Hussin, Yağmur Budak, **Yılser Devrim,** Development and performance analysis of polybenzimidazole/boron nitride composite membranes for high-temperature PEM fuel cells, Int J Energy Res. 2022; 46(4): 4174- 4186. doi:10.1002/er.7418
63	Gizem Nur Bulanık Durmus, C.Ozgur Colpan, **Yılser Devrim**, A review on the development of the electrochemical hydrogen compressors, Journal of Power Sources, 494, 2021, 229743, https://doi.org/10.1016/j.jpowsour.2021.229743.
62	Ceren Ceylan, **Yılser Devrim**, Design and simulation of the PV/PEM fuel cell-based hybrid energy system using MATLAB/Simulink for greenhouse application, International Journal of Hydrogen Energy, Volume 46, Issue 42, 2021,22092-22106, https://doi.org/10.1016/j.ijhydene.2021.04.034.
61	Tuqa Majeed Hameed Al-Msrhad, **Yılser Devrim**, Arife Uzundurukan, Yağmur Budak, Investigation of hydrogen production from sodium borohydride by carbon nano tube-graphene supported PdRu bimetallic catalyst for PEM fuel cell application, Int J Energy Res. 2022; 46(4): 4156- 4173. doi:10.1002/er.7417

60	Serkan Eryilmaz, İrem Bulanık, **Yilser Devrim**, Reliability based modeling of hybrid solar/wind power system for long term performance assessment, Reliability Engineering & System Safety, 2021, 209, 107478.
59	Arife Uzundurukan, Elif Seda Akça, Yağmur Budak, **Yılser Devrim,** Carbon nanotube-graphene supported bimetallic electrocatalyst for direct borohydride hydrogen peroxide fuel cells, Renewable Energy, vol. 172(C), 1351-1364. https://doi.org/10.1016/j.renene.2020.12.003
58	Enis Oğuzhan Eren, Necati Özkan, **Yılser Devrim**, Development of Non-Noble Co-N-C Electrocatalyst for High-Temperature Proton Exchange Membrane Fuel Cells, International Journal of Hydrogen Energy, 2020, 45, 33957-33967.
57	Mogdam Gassy Hussein Al- Tememy, **Yılser Devrim**, Development of effective bimetallic catalyst for high temperature PEM fuel cell to improve CO tolerance, International Journal of Energy Research, 2020,45, 2, 3343-3357.
56	Enis Oğuzhan Eren, Necati Özkan, **Yılser Devrim**, Polybenzimidazole-modified carbon nanotubes as a support material for platinum-based high-temperature proton exchange membrane fuel cell electrocatalysts, International Journal of Hydrogen Energy, 2020, DOI: 10.1016/j.ijhydene.2020.07.101 (In press)
55	Yağmur Budak, **Yılser Devrim,** Evaluation of hybrid solar-wind-hydrogen energy system based on methanol electrolyzer, International Journal of Energy Research, 2020, 44, 13, 10222-102.
54	Yağmur Budak, **Yılser Devrim**, Micro-Cogeneration Application of a High-Temperature PEM Fuel Cell Stack Operated with Polybenzimidazole based Membranes, International Journal of Hydrogen Energy, 2020, 45, 35198-35207.
53	**Yilser Devrim** and Serkan Eryilmaz, Reliability based evaluation of hybrid wind-solar energy system, Journal of Risk and Reliability, 2020, 235, 1, 136-143.
52	Cihangir Kan, **Yilser Devrim**, Serkan Eryilmaz, On the theoretical distribution of the wind farm power when there is a correlation between wind speed and wind turbine availability, Reliability Engineering & System Safety, Volume 203, 2020, 107115.
51	Arife Uzundurukan, Muhittin Bilgili, **Yılser Devrim**, Examination of compression effects on PEMFC performance by numerical and experimental analyses, International Journal of Hydrogen Energy, 45, 60, 35085-35096.
50	Arife, Sağlam, **Yılser 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.
49	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.

48	Serkan Eryilmaz, **Yılser Devrim,** Theoretical derivation of wind plant power distribution with the consideration of wind turbine reliability, Reliability Engineering & System Safety, 185, 2019, 192-197.
47	Arife, Sağlam, **Yılser 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.
46	Yağmur Budak, **Yılser Devrim**, Comparative study of PV/PEM fuel cell hybrid energy system based on methanol and water electrolysis, Energy Conversion and Management, 2019, 179, , 46-57.
45	**Yılser 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.
44	**Yılser 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.
43	Yagmur Nalbant, C. Ozgur Colpan, **Yılser 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.
42	Güvenç Apaydın, Can Özgür Çolpan, **Yılser 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**.**
41	**Yılser 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.
40	Yağmur Budak, **Yılser Devrim,** Investigation of micro-combined heat and power application of PEM fuel cell systems, Energy Conversion and Management, Volume 160, 486-494, 2018
39	**Yılser 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.
38	Dilara Gulcin Caglayan, Berna Sezgin, **Yılser 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
37	Yagmur Nalbant, C. Ozgur Colpan, **Yılser 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.

36	Adnan Ozden, Mustafa Ercelik, **Yılser 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.
35	Yağmur Özdemir, Nurhan Üregen, **Yılser 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.
34	Yağmur Özdemir, Necati Özkan, **Yılser Devrim**, Fabrication and Characterization of Cross-linked Polybenzimidazole Based Membranes for High Temperature PEM Fuel Cells, Electrochimica Acta, Volume 245, Pages 1-13, 2017.
33	Mustafa Ercelik, Adnan Ozden, **Yılser Devrim**, C. Ozgur Colpan, Investigation of Nafion based composite membranes on the performance of DMFCs, International Journal of Hydrogen Energy, Volume 42, Issue 4, Pages 2658-2668, 2017.
32	Nurhan Üregen, Kübra Pehlivanoğlu, Yağmur Özdemir, **Yılser Devrim**, Development of polybenzimidazole/graphene oxide composite membranes for high temperature PEM fuel cells, International Journal of Hydrogen Energy, Volume 42, Issue 4, Pages 2636-2647, 2017.
31	**Yılser Devrim**, Levent Bilir, Performance investigation of a wind turbine–solar photovoltaic panels–fuel cell hybrid system installed at İncek region – Ankara, Turkey, Energy Conversion and Management, Volume 126, 759-766, 2016
30	Berna Sezgin, Dilara Gulcin Caglayan, **Yılser Devrim**, Thomas Steenberg, Inci Eroglu, Modeling and sensitivity analysis of high temperature PEM fuel cells by using Comsol Multiphysics, International Journal of Hydrogen Energy, Volume 41, Issue 23, Pages 10001-10009, 2016
29	**Yılser Devrim**, Hüseyin Devrim, Inci Eroglu, Polybenzimidazole/SiO_2 hybrid membranes for high temperature proton exchange membrane fuel cells, International Journal of Hydrogen Energy, Volume 41, Issue 23, Pages 10044-10052, 2016.
28	Dilara Gulcin Caglayan, Berna Sezgin, **Yılser Devrim**, Inci Eroglu, Three-dimensional modeling of a high temperature polymer electrolyte membrane fuel cell at different operation temperatures, International Journal of Hydrogen Energy, Volume 41, Issue 23, Pages 10060-10070, 2016.
27	**Yılser Devrim,** and Ayhan Albostan, Graphene-Supported Platinum Catalyst-Based Membrane Electrode Assembly for PEM Fuel Cell Journal of Electronic Materials, Volume 45, Issue 8, Pages 3900-3907, 2016
26	Yağmur Özdemir, Nurhan Üregen, **Yılser 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, 2016.
25	Ekin Özgirgin, **Yılser Devrim**, Ayhan Albostan, Modeling and simulation of a hybrid photovoltaic (PV) module-electrolyzer-PEM fuel cell system for micro-cogeneration

	applications, International Journal of Hydrogen Energy, Volume 40, Pages 15336-15342, Issue 44, 2015.
24	Levent Bilir, Mehmet İmir, **Yılser Devrim**, Ayhan Albostan, Seasonal and yearly wind speed distribution and wind power density analysis based on Weibull distribution function, International Journal of Hydrogen, Volume 40, Issue 44, Pages 15301-15310, 2015.
23	**Yılser 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, International Journal of Hydrogen Energy, Volume 40, Issue 44, Pages 15328-15335, 2015.
22	Levent Bilir, Mehmet İmir, **Yılser Devrim**, Ayhan Albostan, An investigation on wind energy potential and small scale wind turbine performance at İncek region – Ankara, Turkey, Energy Conversion and Management, Volume 103, Pages 910-923, 2015.
21	**Yılser 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.
20	**Yılser 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.
19	**Yılser 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.
18	**Yılser 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.
17	**Yılser 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.
16	**Yılser 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.
15	**Yılser 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.
14	**Yılser 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.

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18	**Yılser Devrim**, Kübra Pehlivanoğlu, Hüseyin Devrim, Preparation and Optimization of High Temperature PEM Fuel Cell Electrodes by Ultrasonik Coating Method, 27. National Chemistry Congress, Çanakkale/Turkey, S-ÇE006 (Oral presentation), 2015
17	**Yılser Devrim**, Kübra Pehlivanoğlu, Development of Polybenzimidazole/Graphene Oxide Composite Membranes for High Temperature PEM Fuel Cell, 27. National Chemistry Congress, Çanakkale/Turkey, S-ÇE005 (Oral presentation), 2015
16	Duygu Çelik, Sercan Kolik, Egemen Gökçe, **Yılser Devrim**, Preparation of High Performance Grafen Supported PEM Fuel Cell Electrodes, 2. Student Project Competition, Selçuk University, p 147-148, Konya (Poster presentation), 2015

15	Yağmur Budak, F. Cansu İskenderoğlu, **Yılser Devrim**, Development of new Membrane electrode Assemblies for Regeneratşve Electrolyzer/Fuel cell Hybrid System and Designf of a Hybrid System, 2. Student Project Competition, Selçuk University, p 149-150, Konya (Poster presentation), 2015
14	**Yılser Devrim**, Hüseyin Devrim, İnci Eroğlu, Development of 500 W Proton Exchange Membrane Fuel Cell System, 11. National Chemical Engineering Congress, Eskişehir (Oral presentation), 2014
13	Umut B. Cacan, **Yılser Devrim**, Necati Özkan, İnci Eroğlu, Development of Self-Humidified Nano Composite Membranes for Proton Exchange Membrane Fuel Cells, 11. Natioal Chemical Engineering Congress, Eskişehir (Oral presentation), 2014
12	Yasemin Saygılı, **Yılser Devrim**, Ayşe Bayrakçeken, Hüseyin Devrim, Serkan Kıncal, Nurcan Bac, İnci Eroğlu, Development of 3 kW Proton Exchange Membrane Fuel Cell Initial Test Protocols,11. Natioal Chemical Engineering Congress, Eskişehir (Poster presentation), 2014
11	**Yılser Devrim**, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Preparation of Nafion/TiO_2 Composite Membranes for Proton Exchange Membrane Fuel Cells, IV National Hydrogen Energy Conference and Fair (UHK 2009),309-314, Kocaeli University, Kocaeli/Turkey (Oral presentation), 2009
10	Dilek Ergun, **Yılser Devrim**, Nurcan Baç, İnci Eroğlu, Proton Exchange Membranes for High Temperature, IV National Hydrogen Energy Conference and Fair (UHK 2009, Kocaeli University, 222-232, Kocaeli/Turkey (Oral presentation), 2009
9	**Yılser Devrim**, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Effect of TiO_2 Content on Performances of Nafion/TiO_2 Nano composite Membranes, National Chemical Engineering Congress, UKMK 2010, Gazi University, ANKARA/Turkey (Oral presentation), 2010
8	Dilek Ergun, **Yılser Devrim**, Nurcan Baç, İnci Eroğlu, Preparation of Polybenzimidazole Membranes for High Temperature Fuel Cells and Determination of Performances, National Chemical Engineering Congress, UKMK 2010, Gazi University, ANKARA/Turkey (Oral presentation), 2010
7	**Yılser Devrim**, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Nafion/TiO2 Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells, 5. National Nanoscience and Nanotechnology Conference (NanoTR-5), Anadolu University, Eskişehir/Turkey (Poster presentation), 2009
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4	Sinan Eğri, **Yılser Güldoğan**, Zakir M.O.Rzaev, Erhan Pişkin, Maleic Anhydride Grafting onto Powder and Granule Polypropylene by Reactive Extrusion, POLSEM 2004, Polymer Processing and Recycle Symposium, Mersin/Turkey (Oral presentation), 2004
3	**Yılser Güldoğan**, Tülay Durusoy, Tijen Bozdemir, Mengen ve Gediz Linyitlerinin Piroliz Kinetiklerine Isıtma Hızının Etkisi, KTP10, 5. National Chemical Engineering Congress, UKMK-5, Ankara University, Ankara/Turkey (Poster presentation), 2002
2	**Yılser Güldoğan**, Tülay Dursoy, Tijen Özbaş Bozdemir, Investigation of Pyrolysis Kinetic of Tuçbilek Lignite, XII. National Chemistry Conference, Trakya University, 1998, Edirne/Turkey, (Oral presentation).Yılser Güldoğan, Tülay Durusoy, Tijen Özbaş Bozdemir, Investigation of Pyrolysis Kinetic of Mengen Lignite by Thermogravimetric Analysis, 19 Mayıs University, Samsun/Turkey (Oral presentation), 1999
1	**Yılser Güldoğan**, Vural Evren, Tülay Durusoy, Tijen Özbaş Bozdemir, Investigation of Pyrolysis Kinetic of Tunçbilek Lignite and Peat, XIII. Ulusal Kimya Sempozyumu, 19 Mayıs University, Samsun/Turkey (Oral presentation), 1999

THESES SUPERVISED

26	MS Thesis: Performance Assessment of Anion Exchange Membrane Electrolyzer through Mathematical Modeling, Ceren Çelebi, 2024-Present
25	MS Thesis: Two-Phase Mathematical Modeling of An Anion Exchange Membrane Electrolyzer, Alperen Demirtaş, 2025-Present
24	PhD Thesis: Design and Development of Anion Exchange Membrane for Hydrogen Production, Hasan Altınışık, 2024-Present
23	PhD Thesis: Mathematical modeling of anion exchange membrane electrolyzer, Safa Khalaf Atiyah, 2022-Present
22	MS Thesis: Design, construction, and performance of a anion exchange membrane electrolyzer, Ogün Abay, 2023-Present
21	MS Thesis: Design of the Green Hydrogen Refuelling Station Powered by an On-Grid Photovoltaic System, Reyhan Atabay, 2021-2025
20	MS Thesis: Mathematical Modeling of Electrochemical Hydrogen Compressors, Cemil Kuzu, 2021-2024.
19	MS Thesis: Preparation and Performance Investigation of High Efficient Catalyst for High Temperature Electrochemical Hydrogen Separation, İlay Bilge Bal, 2021-2024.

18	PhD Thesis: Development of High-Performance Electrochemical Hydrogen Compressor Through Theoretical and Experimental Studies, Gizem Nur Bulanık Durmuş, 2019-2023.
17	PhD Thesis: “Development of platinum-containing electrocatalysts supported on Hybrid Material for PEM Fuel Cells”, Ahmed Yaseen Al-Janabi, 2019-2023.
16	PhD Thesis: “Development of a Composite Materials Based Fuel Cell through Modeling and Experimental Studies”, Güvenç Umur Alpaydın, 2017-2021.
15	Duygu Kemeriz, Modelling and Optimization of an PEM Fuel Cell Based Hybrid Renewable Energy System, 2020-2022.
14	Frederick Can Troster, Modelling at a Solar Dish Stirling System Based Hydrogen Production, 2020-2022.
13	MS Thesis: “Investigation of Hydrogen Production from Sodium Boron Hydride Hydrolysis with Supported Metal Catalyst”, Tuqa Majeed Hameed Al-Msrhad, 2019-2021.
12	MS Thesis: “Development of High-Performance Composite Membrane for Proton Exchange Membrane Fuel Cell”, Dedar Emad Hussin, 2018-2021.
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.
10	MS Thesis: “Development of High-Performance Bimetallic Catalysts for Proton Exchange Membrane Fuel Cell” Mogdam Gassy Hu Al-Tememy, 2018-2020.
9	MS Thesis: “Design and Optimization of Solar Based Hybrid Power System”, Ceren Ceylan, 2018- 2020.
8	MS Thesis: “Design Manufacturing and Testing of High-performance proton Exchange Membrane Fuel cell stack”, Yağmur Budak, 2017-2019.
7	MS Thesis: “Investigation of Contact Pressure of PEM Fuel Cell”, Arife Sağlam, 2017-2019.
6	MS Thesis: “Design and Development of High Temperature PEM Fuel Cell Flow Channel”, Celal Yılmaz, 2016-2018.
5	MS Thesis: “Modeling and Simulation of High Temperature Proton Exchange Membrane Fuel Cell Based Cogeneration Systems”, Yağmur Nalbant, 2016-2018.
4	MS Thesis: “Development and Characterization of PBI Composite and Crosslinked Membranes for High Temperature PEM Fuel Cell Applications”, Yağmur Özdemir, 2015–2019.
3	MS Thesis: “Investigation of Temperature Profile in High Temperature PEM Fuel Cell”, Dilara Gülçin Çağlayan, 2014–2016.
2	MS Thesis: “Modelling a High Temperature PEM Fuel Cell”, Berna Sezgin, 2014–2016.
1	MS Thesis: “Development of Self-Humidifying Membrane Electrode Assembly for PEM Fuel Cell”, Umut Baki Çaçan, 2013–2015.

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, 11th 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
18	Journal Reviewer, ACS Applied Materials & Interfaces
19	Journal Reviewer, Fuel
20	Journal Reviewer, European Polymer Journal
21	Journal Reviewer, Fuel Cells
22	Journal Reviewer, Turkish Journal of Electrical Engineering & Computer Sciences
23	Journal Reviewer, Applied Energy
24	Journal Reviewer, Energy Conversion and Management
25	Journal Reviewer, Polymer Degradation and Stability

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
10	Introduction to Energy Systems Engineering