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EDUCATION

Year	Degree	Academic Institution	Department
2007-2010	Post-Doc.	Middle East Technical University, Turkey	Chemical Engineering
2000-2006	Ph.D.	Hacettepe University, Turkey	Chemical Engineering
1997-2000	M.Sc.	Hacettepe University, Turkey	Chemical Engineering
1993-1997	B.Sc.	Hacettepe University, Turkey	Chemical Engineering

* PhD. Thesis: Development of New Membranes for Proton Exchange Membrane Fuel Cells By Alternative Methods

** M.Sc. Thesis: Investigation of Pyrolysis Kinetics of Various Turkish Coals by Thermogravimetric Analysis

ACADEMIC/WORK EXPERIENCE/INTERNSHIPS

Year(s)	Position	Department	Institution
2015- Present	Associated Professor	Energy Systems Engineering	Atılım University, Turkey
2013 -2015	Assistant Professor	Energy Systems Engineering	Atılım University, Turkey
2012-2013	Project Manager	R&D	TEKSIS, METUTECH, Turkey
2011-2008	Post-doctoral Researcher	Chemical Engineering	METU, Turkey
2008 – 2007	Post-doctoral Fellow	Chemical Engineering	METU, Turkey
2006 -2000	Research Assistant / PhD Student	Chemical Engineering	Hacettepe University, Turkey
2000 -1997	Research Assistant / M.Sc. Student	Chemical Engineering	Hacettepe University, Turkey

TEACHING EXPERIENCE

Year(s)	Position	Department	Institution	Courses Taught
2015 – Present	Associate Professor	Energy Systems Engineering	Atılım University, Turkey	Heat Transfer, Heat and Mass Transfer, Fuel Cell Technology, Energy System Engineering I, Energy System Engineering II, Hydrogen Technology, Solar Energy Technologies
2013 – 2015	Assistant Professor	Energy Systems Engineering	Atılım University, Turkey	Fuel Cell Technology, Energy System Engineering I, Energy System Engineering II, Hydrogen Technology, Heat Transfer
2013 – 2016	Assistant Professor	Automotive Engineering	Atılım University, Turkey	Heat Transfer
1997-2006	Research Assistant	Chemical Engineering	Hacettepe University, Turkey	Basic Measurements Laboratory; Unit Operations Laboratory; Instrumental Analysis Laboratory, Polymer Science and Technology; Thermodynamics; Heat Transfer; Mass Transfer

AWARDS/SCHOLARSHIPS

Awards /Scholarship	Supported By	Period
TUBITAK-Post doctorate Scholarship	TUBITAK	2007-2008
TUBITAK-Doctoral Scholarship	TUBITAK	2001-2004
3rd prize, Project Competition	Selçuk University	2016
2nd prize, Project Competition	ICEM 2014, International Conference on Energy and Management	2014
2nd prize, Best Presentation Award	4. International Istanbul Smart Grid Congress and Fair	2015
1 st , Best presentation Award	10th International Clean Energy Symposium (ICES)	2016

PROJECTS

TUBITAK 1001: Design and Development of the High Temperature Fuel Cell Fueled by Reformate Gases for Evaluation of Micro- Cogeneration Application	2015-2018
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
Atılım University ATÜ-LAP-C-1617-05: Development of H ₂ O ₂ Fuel Cell Systems for Aerospace Applications	2016-2017
Atılım University ATÜ-LAP-C-1516-03: Hydrogen Production from Sodium Borohydride and Development of Sodium Borohydride PEM Fuel Cell	2015-2016
Dokuz Eylül University BAP: Development and Testing Direct Methanol Fuel Cell with Different Materials	2016-2018
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
TÜBİTAK-2241/A Development of High Performance electrodes for Portable PEM Fuel Cells	2014-2015
Ankara Development Agency: Development of PEM Fuel Cell UPS	2013-2014
TÜBİTAK 1507- Development of 500 W PEM Fuel Cell Generator	2012-2013
ICHET international H2-FC projects: Development of 3 kW Fuel Cell system	2010-2012
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
KOSGEB: Development of DMFC and PEM Test Station Prototype	2011-2012
TÜBİTAK-MAG-109M221: Development of Composite Membranes and Electrocatalyst for PEM Fuel Cells and Investigation of Long Term Stabilities.	2009-2012
TÜBİTAK-MAG-104M364: Development of High Temperature Proton Exchange Membrane Fuel Cell	2008-2005
ODTÜ -BAP-03-04-2008-07: High Temperature Proton Exchange Membrane Fuel Cells	2008-2010

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
TÜBİTAK-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
TÜBİTAK-TBAG-105T509: Tissue Engineering for Biomedical Technology, FP6-SSA-2	2006-2008
TÜBİTAK BİDEP: Synthesis and Characterization of Sulfonated Polyarylene Ether Sulfone Membranes for Proton Exchange Membrane Fuel Cell.	2007-2008

PUBLICATIONS

SCI Indexed

1. Adnan Ozden, Mustafa Ercelik, Yagmur Ozdemir, **Yilser Devrim**, C. Ozgur Colpan, Enhancement of direct methanol fuel cell performance through the inclusion of zirconium phosphate, International Journal of Hydrogen Energy, In Press, Corrected Proof, Available online 23 February 2017, <http://dx.doi.org/10.1016/j.ijhydene.2017.01.188>.
2. **Yilser 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, 15 October 2016, 759-766, <http://dx.doi.org/10.1016/j.enconman.2016.08.062>.
3. Nurhan Üregen, Kübra Pehlivanoglu, Yağmur Özdemir, **Yilser Devrim**, Development of polybenzimidazole/graphene oxide composite membranes for high temperature PEM fuel cells, International Journal of Hydrogen Energy, International Journal of Hydrogen Energy, Volume 42, Issue 4, 26 January 2017, 2636-2647, <http://dx.doi.org/10.1016/j.ijhydene.2016.07.009>.
4. Mustafa Ercelik, Adnan Ozden, **Yilser Devrim**, C. Ozgur Colpan, Investigation of Nafion based composite membranes on the performance of DMFCs, International Journal of Hydrogen Energy, International Journal of Hydrogen Energy, Volume 42, Issue 4, 26 January 2017, 2658-2668, <http://dx.doi.org/10.1016/j.ijhydene.2016.06.215>.

5. 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, International Journal of Hydrogen Energy, Volume 42, Issue 4, 26 January 2017, 2648-2657, doi:10.1016/j.ijhydene.2016.04.132.

6. 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, International Journal of Hydrogen Energy, Volume 41, Issue 23, 22 June 2016, 10001-10009. doi:10.1016/j.ijhydene.2016.03.142

7. **Yilser Devrim**, Hüseyin Devrim, Inci Eroglu, Polybenzimidazole/SiO₂ hybrid membranes for high temperature proton exchange membrane fuel cells, International Journal of Hydrogen Energy, Volume 41, Issue 23, 2016, 10044-10052. doi:10.1016/j.ijhydene.2016.02.043.

8. 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, International Journal of Hydrogen Energy, Volume 41, Issue 23, 2016, 10060-10070. doi:10.1016/j.ijhydene.2016.03.049.

9. **Yilser Devrim**, and Ayhan Albostan, Graphene-Supported Platinum Catalyst-Based Membrane Electrode Assembly for PEM Fuel Cell Journal of Electronic Materials DOI: 10.1007/S11664-016-4703-2.

10. Ekin Özgirgin, **Yilser 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, Issue 44, 2, 15336-15342. doi:10.1016/j.ijhydene.2015.06.122.

11. Levent Bilir, Mehmet İmir, **Yilser 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, 15301-15310. doi:10.1016/j.ijhydene.2015.04.140.

12. **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, International Journal of Hydrogen Energy, Volume 40, Issue 44, 26, 2015, 15328-15335. DOI: 10.1016/j.ijhydene.2015.02.078.

13. 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, *Energy Conversion and Management*, Volume 103, 2015, 910-923. doi:10.1016/j.enconman.2015.07.017.

14. **Yilser Devrim**, Kübra Pehlivanoglu, Design of a hybrid photovoltaic-electrolyzer-PEM fuel cell system for developing solar model, *Phys. Status Solidi C*, 1–6 (2015) / DOI 10.1002/pssc.201510091.

15. **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, 2015, 7707-7719. doi:10.1016/j.ijhydene.2015.02.005.

16. **Yilser Devrim**, Huseyin Devrim, PEM fuel cell short stack performances of silica doped nanocomposite membranes, *International Journal of Hydrogen Energy*, Volume 40, Issue 24, 2015, Pages 7870-7878. doi:10.1016/j.ijhydene.2014.11.018.

17. **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, 2014, 741-751, (DOI: 10.1016/j.electacta.2014.08.131).

18. **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, (DOI: 10.1002/app.40541).

19. **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, 435–442, April 2013 (DOI: 10.1002/er.2909).

20. **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 (<http://dx.doi.org/10.1016/j.ijhydene.2012.02.148>).

21. 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, 25 June 2012 (DOI: 10.1002/app.36507).

22. 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, 2009, 3467-3475 (<http://dx.doi.org/10.1016/j.ijhydene.2009.02.019>).

23. Yilser G. Devrim, Pyrolysis Kinetics of Blends of Yeni Çelttek Lignite, Energy Sources, Energy Sources, Part A, 30:238–246, 2008 (DOI: 10.1080/00908310600712646).

24. 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. 2007, 208, 175–187, (DOI: 10.1002/macp.200600331).

25. Yilser G. Devrim, Zakir M.O. Rzaev and Erhan Pişkin, Functionalization of Isotactic Polypropylene with Citraconic Anhydride, Polymer Bulletin, 2007, 59, 4, 447-456 (DOI: 10.1007/s00289-007-0785-6).

26. 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. 2006, 207, 111–121 (DOI: 10.1002/macp.200500393).

27. Yilser G. Devrim, Sinan Eğri, Zakir M.O. Rzaev and Erhan Pişkin, Comparison of Maleic Anhydride Grafting onto Powder and Granular Polypropylene in Melt by Reactive Extrusion, Journal of Applied Polymer Science, 2004, Vol. 92, 3675–3684 (DOI: 10.1002/macp.200500393).

28. Yilser G. Devrim, Tülay Durusoy and Tijen Özbaş Bozdemir, Effect of heating rate and particle size on pyrolysis kinetics of Gediz lignite, 2002, Energy Sources, 24, 8, 753-760 (DOI:10.1080/00908310290086671).

29. Yilser G. Devrim, Vural Evren, Tülay Durusoy, Tijen Özbaş Bozdemir, Effects of heating rate and particle size on the pyrolysis kinetics of Mengen lignite, 2001, Energy Sources, 23, 377-344 (DOI: 10.1080/009083101300110887).

30. Yilser G. Devrim, Tijen Özbaş Bozdemir and Tülay Durusoy, Pyrolysis kinetics of blends of Gediz lignite with Denizli peat, 2001, Energy Sources, 23, 393-400 (DOI: 10.1080/009083101300110940).

31. Yılsar Gldoğan, Tlay Durusoy and Tijen zbař Bozdemir, Pyrolysis kinetics of blends of Mengen lignite with Denizli peat, 2001, Energy Sources, 23, 59-65 (DOI: 10.1080/00908310120913).

32. Yılsar Gldoğan, Tijen zbař Bozdemir and Tlay Durusoy, Effect of heating rate on pyrolysis kinetics of Tunbilek lignite”, 2000, Energy Sources, 22, 305-312 (DOI: 10.1080/00908310050013901).

33. Yılsar Gldoğan, Tlay Durusoy and Tijen zbař Bozdemir, Pyrolysis kinetics of blends of Tunbilek lignite with Denizli peat, 1999, Thermochemica Acta, 75-81 ([http://dx.doi.org/10.1016/S0040-6031\(99\)00078-7](http://dx.doi.org/10.1016/S0040-6031(99)00078-7)).

Refereed Conference Proceedings (International)

1. Kbra Pehlivanoęlu, **Yılsar 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, March 22-26 2017 Sarajevo Bosnia and Herzegovina, p.93 (Oral Presentation).

2. Berna Sezgin, Dilara Glin aęlayan, **Yılsar Devrim**, İnci Eroęlu, Three-Dimensional Nonisothermal Model Development of High Temperature PEM Fuel Cells, The Second International Hydrogen Technologies Congress (IHTEC-2017), 15-18 March, 2017, Adana, Turkey, p.17, (Oral Presentation).

3. Yaęmur Budak, Yaęmur zdemir, **Yılsar Devrim**, Investigation of Working Temperature Effect on Micro-Cogeneration Application of Proton Exchange Membrane Fuel Cell, The Second International Hydrogen Technologies Congress (IHTEC-2017), 15-18 March, 2017, Adana, Turkey, p.17, (Oral Presentation).

4. Yaęmur zdemir, Necati zkan, **Yılsar 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), 15-18 March, 2017, Adana, Turkey, p.17, (Oral Presentation).

5. Mustafa Ercelik, Yagmur Ozdemir, Adnan Ozden, **Yılsar 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), 15-18 March, 2017, Adana, Turkey, p.17, (Oral Presentation).

6. **Yılsar Devrim**, Yaęmur zdemir, İnci Eroęlu, Investigation of Electrode Structure on High Temperature PEM Fuel Cell Performance, 10th International Clean Energy Symposium (ICES), 24-26 Ekim, 2016, İstabul Turkey (Oral

Presentation).

7. 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), 24-26 Ekim, 2016, İstanbul Turkey (Oral Presentation).

8. M. Ercelik, A. Ozden, **Y. Devrim**, C. O. Colpan, Investigation of Nafion/SiO₂ and Nafion/TiO₂ composite membranes for the DMFC applications”, 8th International Exergy, Energy and Environment Symposium (IEEES-8), May 1-4, 2016, Antalya, Turkey (Oral Presentation).

9. **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, 13-16 June, 2016, (Poster Presentation).

10. 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, 13-16 June, 2016, (Oral Presentation).

11. 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, 13-16 June, 2016, (Oral Presentation).

12. 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, 13-16 June, 2016, (Oral Presentation).

13. **Yilser Devrim**, Kubra Pehlivanoglu, Design of Unitized Regenerative Fuel Cell Hybrid System With Solar Energy Storage, 192. 06 – 08 Aralık 2016, İstanbul’da “Uluslararası Solar Tr2016 (Oral Presentation).p:192-198.

14. **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, 7-9 September, 2015(Oral presentation).

15. 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, 7-9 September, 2015, (Oral presentation).

16. 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, 7-9 September, 2015, (Poster presentation).

17. Thomas Steenberg, Hans Aage Hjuler, Hector Rodrigo Garcia, **Yilser Devrim**, Hüseyin Devrim and Omer Erdemir, Development of a commercial HT-PEM fuel cell stack module, International Symposium on Materials for Energy Storage and Conversion, 7-9 September, 2015, (Oral presentation).

18. **Yilser Devrim**, Ayhan Albostan, Development of Graphane Oxide Supported Platinum Catalyst Based Membrane Electrode Assembly for PEM Fuel Cell, 11. European Conference on Renewable Energy Systems 07-10 October 2015, Kemer, Antalya, Turkey (Oral presentation).

19. **Yilser Devrim**, Ayhan Albostan, Analysis of a Hybrid Photovoltaic-Electrolyzer-PEM Fuel Cell System for Household Application (0041), SOLARTR 2014 Conference and Exhibition, 19-21 November 2014, İzmir, p 109, (Oral presentation).

20. Ekin Özgirgin, **Yilser Devrim**, Ayhan Albostan, Modelling and Simulation of a Hybrid Photovoltaic (PV) Module-Electrolyzer-PEM Fuel Cell System for Micro-Cogeneration Applications, 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), 26-29 October, 2014, Antalya, Turkey, 43 (Oral presentation).

21. **Yilser Devrim**, Ayhan Albostan, Enhancement of PEM fuel cells performance at higher temperatures and lower humidities by high performance membran electrode assembly based on Nafion/Zeolite membrane, 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), 26-29 October, 2014, Antalya, Turkey, 38 (Oral presentation).

22. Levent Bilir, Mehmet İmir, **Yilser Devrim**, Ayhan Albostan, Determination of Weibull parameters for wind speed distribution at İncek region – Ankara, 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), 26-29 October, 2014, Antalya, Turkey, 53 (Oral presentation).

23. **Yilser Devrim**, Polybenzimidazole/titania composite membranes for high temperature proton exchange membrane fuel cell applications, 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), 26-29 October, 2014, Antalya, Turkey, 126 (Poster presentation).

24. **Yilser Devrim**, Hüseyin Devrim, İnci Eroglu, Development and Testing 500 W PEM Fuel Cell System for Portable Power Generators, The 20th World Hydrogen Energy Conference 2014, June 15-20 2014, Korea (Poster presentation).

25. **Yilser Devrim**, Hüseyin Devrim, İnci Eroglu, Development Of 500 W PEM Fuel Cell System, International Conference on Clean Energy 2014, Istanbul, 8-12 June, 2014, P:21 (Oral presentation).

26. **Yilser Devrim**, Hüseyin Devrim, PEM Fuel Cell Stack Performances of Silica Doped Nanocomposite Membranes, International Conference on Clean Energy 2014, Istanbul, 8-12 June, 2014, P:23 (Oral presentation).

27. Yilser Devrim, Nurcan Baç, İnci Eroğlu, Nanocomposite membranes based on nafion and TiSiO₄ nanoparticle, T4-02, European Polymer Congress 2011 XII Congress of the Specialized Group of Polymers, June 26 - July 1, 2011, Granada, Spain (Poster presentation).

28. Yilser Devrim, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Nafion/Mixed Inorganic Oxide Nanocomposite Membranes for PEM Fuel Cells, International Conference on Clean Energy (ICCI-2010), Gazimagusa–N.Cyprus, 15-17 September, 2010 (Oral presentation).

29. Yilser Devrim, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Preparation and Characterization of Nafion/Titanium Dioxide Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells, WHEC 2010, Essen, Germany, P:141-146 (Poster presentation).

30. Dilek Ergün, Yilser Devrim, Nurcan Baç, İnci Eroğlu, High Temperature Proton Exchange Membrane Fuel Cells, WHEC 2010, Essen, Germany (Poster presentation).

31. Yilser Devrim, Serdar Erkan, Nurcan Baç, İnci Eroğlu, Nanocomposite Membranes based on Nafion and TiO₂ for PEM Fuel Cells, 6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC-6) at the Atlantis Hotel, Belek, Antalya, Turkey on 7th-12th March, 2010 (Poster presentation).

32. Dilek Ergün, Serdar Erkan, Yilser Devrim, Nurcan Baç, İnci Eroğlu, High Temperature Proton Exchange Membrane Fuel Cells, HYPOTHESIS VIII Lisbon (Portugal), April 1-3, 2009 (Poster presentation).

33. Yilser Devrim, Nurcan Baç, İnci Eroğlu, Preparation and Characterization of Sulfonated Polysulfone/TiO₂ Composite Membranes for Proton Exchange Membrane Fuel Cell, 5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, EMCC5, May 24-29, 2008, A22 (Poster presentation)..

34. Yilser Gldođan Devrim, Rzaev Zakir, Erhan Piřkin, Physically and chemically crosslinked poly (maleic anhydride-alt-styrene-co-2-acrylamido-2-methyl-1-propane sulfonic acid)s as ion-exchange membranes, Abstr. Eropean Polymer Congress, Moscow, June 27 – July 1, 2005, Moscow State University. Section 6.1.5. Ref. 2058 (Oral presentation).

35. Yilser Gldođan Devrim, Rzaev Zakir, Erhan Piřkin, Photoinduced Graft Polymerization of 2-Acrylamido-2-methyl-1-propanesulfonic acid/Triethylene Glycol Dimethacrylate System onto Microporous Polypropylene Film, Eropean Polymer Congress, Moscow, June 27 – July 1, 2005, Moscow State University (Poster presentation).

36. Yilser Gldođan Devrim and Erhan Piřkin, Modification of Polypropylene Based Membranes for Possible Use as Proton Exchange Membranes in Fuel Cells', International Hydrogen Energy Congress and Exhibition IHEC 2005, 13-15 July 2005, Istanbul, Turkey (Oral presentation).

37. Yilser Gldođan Devrim, Rzaev Zakir, Erhan Piřkin, ‘‘Physically and Chemically Crosslinked Poly[(maleic anhydride-alt-styrene)-co-2-acrylamido-2-methyl-1-propanesulfonic acid)]s as Proton-Exchange Membranes’’, International Hydrogen Energy Congress and Exhibition IHEC 2005, 13-15 July 2005, Istanbul, Turkey (Oral presentation).

38. Yilser Gldođan Devrim, Zakir Rzaev, Erhan Piřkin, Grafting and Graft(co)polymerization of Polypropylene, MACRO 2004-40th IUPAC World Polymer Congress Paris, France, 2004 (Oral presentation).

39. Yilser Gldođan Devrim, Zakir Rzaev, Erhan Piřkin, Grafting of Powder and Granular Polypropylene in Melt by Using Reactive Extrusion, MACRO 2004-40th IUPAC World Polymer Congress Paris, France, 2004 (Oral presentation).

40. Yilser Gldođan Devrim, Zakir Rzaev, Erhan Piřkin, Complex-Radical Terpolymerization of maleic anhydride-styrene-2-acrylamido-2-methyl-1-propane sulfonic acid System. MACRO 2004 -40th IUPAC World Polymer Congress Paris, France, 2004 (Poster presentation).

41. Yilser Gldođan Devrim, Zakir Rzaev, Erhan Piřkin, Anhydrido-Carboxylation of Polypropylene: Synthesis and Characterization of Poly(PP-g-MA), Poly(PP-g -CA) and Poly[PP-g-(MA-alt-AA)], Fifteenth International Conference on Organic Synthesis, IUPAC ICOS-15, 3-F-01, August 1-6, 2004 Nagoya, Japan (Poster presentation).

42. Yilser Gldođan, Zakir M.O. Rzaev, Erhan Piřkin, Polypropylene Functionalization in Solution and in Melt by Reactive Extrusion, 11th International Conference on Polymers and Organic Chemistry 2004, P42, July 18-23, Prague, Czech Republic (Poster presentation).

Refereed Conference Proceedings (National)

1. Kbra Pehlivanođlu, **Yilser Devrim**, Hseyin Devrim, mer Erdemir, Development of 1 Kw High Temperature PEM Fuel Cell (HT-PEM), National Chemical Engineering Congress (UKMK-2016), İzmir, Turkey, 23-26 August, p 89. (Oral presentation).

2. Yađmur zdemir, **Yilser Devrim**, Necati zkan, Development of Crosslinked Polybenzimidazole Membranes for High Temperature PEM Fuel Cell, National Chemical Engineering Congress (UKMK-2016), İzmir, Turkey, 23-26 August, p 90, (Oral presentation).

3. Berna Sezgin, Dilara Glin ađlayan, **Yilser Devrim**, İnci Erođlu, Modelling and Sensivity Analysis of High Temperature PEM Fuel Cell with Polybenzimidazole Composite Membranes, National Chemical Engineering Congress (UKMK-2016), İzmir, Turkey, 23-26 August, p 92, (Oral presentation).

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- 29.** Sinan Eğri, **Yılser Gldođan**, Zakir M.O.Rzaev, Erhan Piřkin, Maleic Anhydride Grafting onto Powder and Granule Polypropylene by Reactive Extrusion, POLSEM 2004, Polymer Processing and Recycle Symposium , 28-30 April 2004, Mersin/Turkey, (Oral presentation).
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SUPERVISION OF GRADUATE STUDENTS

Year(s)	Name of the Student	Level of Studies	Thesis Title
2013 – 2015	Umut B Cacan	M.Sc.	Development of Self-Humidifying Membrane Electrode Assembly for PEM Fuel Cell
2014 – 2016	Berna Sezgin	M.Sc.	Modelling a High Temperature PEM Fuel Cell
2014 – 2016	Dilara Gülçin Çağlayan	M.Sc.	Investigation of Temperature Profile in High Temperature PEM Fuel Cell.
2015 – 2017	Yağmur Özdemir	M.Sc.	Development and Characterization of PBI Composite and Crosslinked Membranes for High Temperature PEM Fuel Cell Applications
2016-Present	Yağmur Nalbant	M.Sc.	Modeling and Simulation of High Temperature Proton Exchange Membrane Fuel Cell Based Cogeneration Systems
2016-Present	Celal Yılmaz	M.Sc.	Design and Development of High Temperature PEM Fuel Cell Flow Channel.

SCIENCE COMMITTEES/ORGANIZATIONS

1. IV. International Scientific Committee, Fourth European Conference on Renewable Energy Systems (ECRES2016), Istanbul/Turkey on 28-31 August 2016.
2. V. International Scientific Committee, Fourth European Conference on Renewable Energy Systems (ECRES2016), Istanbul/Turkey on 27-30 August 2017.
3. The 6th International Multi-Conference on Engineering and Technological Innovation: IMETI 2013 July 9 - 12, Orlando, Florida, USA.
4. The 7th International Multi-Conference on Engineering and Technological Innovation: IMETI 2014, July 15 - 18, 2014 – Orlando, Florida, USA.
5. International Conference on Engineering and Meta-Engineering: ICEME 2010, April 6th - 9th, 2010 – Orlando, Florida, USA.

6. UKMK-11, National Chemical Engineering Conference, 2-5 September, 2014, Eskisehir, Turkey.
7. 2014 Global Conference on Polymer and Composite Materials (PCM 2014) , (4), China, (2014).
8. Coordination Office, 11th Int. Symp. on Biomedical Science & Technology Days, September 2004, Turkey/Ankara.

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Fuel
European Polymer Journal
Fuel Cells
Turkish Journal of Electrical Engineering & Computer Sciences
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Energy Conversion and Management
Polymer Degradation and Stability